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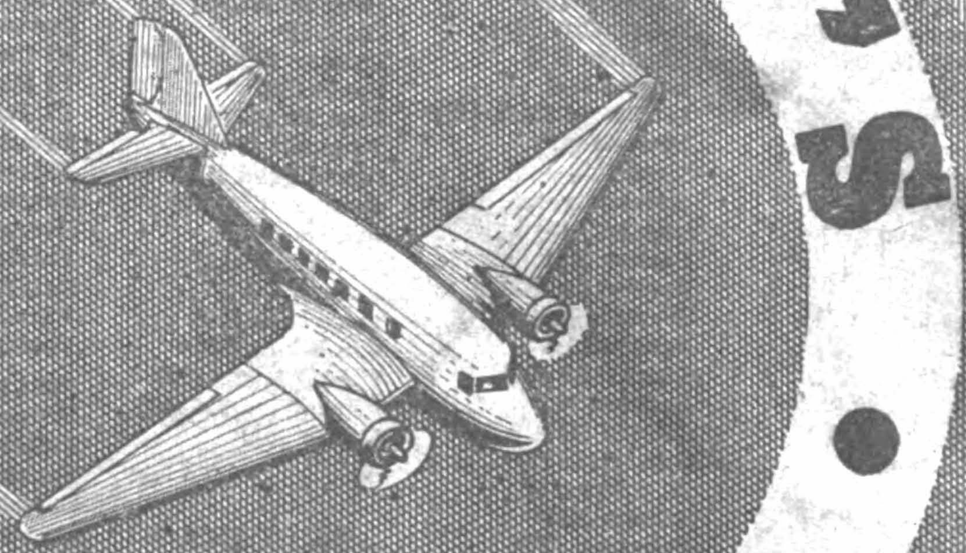

NOTICES TO AIRMEN
DIRECTORY OF AIRPORTS
AIR NAVIGATION RADIO AIDS

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U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
OFFICE OF AVIATION INFORMATION

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N. B. PARENTHETICAL NUMBERS REFER TO THE CHARTS AND DATA PAGES ON WHICH THESE LOCALES ARE INSCRIBED. AN ASTERISK INDICATES THE FACILITY IS LISTED ON THE DATA PAGE BUT IS NOT CHARTED.

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Ida Grove (15)
Iowa City (16)
Iowa Falls (16)
Jefferson (16)
Keokuk (16)
Lake City (16)
Lamoni (16)
Le Mars (15)
Leon (16)
Lucas (16)
Manning (15)
Marshalltown (16)
Mason City (16)
Mechanicsville (16)
Melbourne (16)
Milford (15)
Missouri Valley (15)
Moneta (15)
Monroe (16)
Montezuma (16)
Mt. Ayr (16)
Mt. Pleasant (16)
Muscatine (16)
Newton (16)
Ocheyedan (15)
Onawa (15)
Ottumwa (16)
Pella (16)
Perry (16)
Pocahontas (16)
Randolph (15)•
Red Oak (15)
Rock Rapids (15)
Sac City (16)
Seymour (16)
Sheldon (15)
Sioux City (15)
Sloan (15)
Spencer (15)
Spirit Lake (15)
Storm Lake (15)
Strawberry Point (16)
Stuart (16)
Sutherland (15)
Traer (16)
Washington (16)
Waterloo (16)
Webster City (16)
Wesley (16)

KANSAS

Abilene (31)
Anthony (31)
Arkansas City (31)
Ashland (30)
Atwood (14)
Augusta (31)
Belleville (15)
Beloit (15)
Bern (15)
Brewster (14)
Caldwell (31)
Cassoday (31)
Cedar Point (31)
Chanute (32)
Clay Center (15)
Coffeyville (32)
Colby (14)
Coldwater (30)
Concordia (15)
Derby (31)
De Soto (16)
Dodge City (30)
Downs (15)
Edwardsville (16)
El Dorado (31)
Ellinwood (31)
Emporia (31)
Eureka (31)
Ft. Leavenworth (16)
Fort Riley (15)
Fort Scott (32)
Garden City (30)
Gardner (32)•
Garnett (32)•
Girard (32)
Goodland (14)
Great Bend (30,31)
Greensburg (30)
Hays (30)
Hazelton (31)
Herington (31)
Hiawatha (15)
Hoisington (31)
Holton (15)
Holyrood (31)
Hutchinson (31)
Independence (32)
Iola (32)
Johnoon (30)
Kansas City (16)
Kechi (31)
Kingman (31)
Kinsley (30)
Kiowa (31)
Lakin (30)
Larkinburg (15)
Larned (30)
Lawrence (15)
Leavenworth (16)
Lebo (32)
Lenora (14)•
Liberal (30)
Lyons (31)
McPherson (31)
Manhattan (15)
Mankato (15)
Marion (31)•
Meade (30)
Medicine Lodge (31)
Moundridge (31)
Newton (31)
Norton (15)
Oberlin (14)
Olathe (32)
Ottawa (32)
Oxford (31)
Paola (32)
Parsons (32)
Phillipsburg (15)•
Pittsburg (32)
Plains (30)
Pratt (31)
Russell (30)
St. Francis (14)
Salina (31)
Satanta (30)
Scott City (30)
Sedan (31)
Seneca (15)
Sharon Springs (30)
Smith Center (15)
Stafford (31)
Summerfield (15)
Syracuse (30)
Topeka (32)(15)
Towanda (31)
Viola (31)
Wakefield (15)
Wellington (31)
Wellsville (32)
Wichita (31)
Winfield (31)

KENTUCKY

Ashland (36)
Bowling Green (53)
Covington (35)
Danville (35)
Eastwood (35)
Fort Knox (85)
Frankfort (35)
Glendale (35)
Hopkinsville (52)
Lexington (35)
London (54)
Louisville (35)
Madisonville (34)
Mayfield (52)
Maysville (36)
Middlesboro (54)
Owensboro (34)
Paducah (52)
Paris (35)
Russell (36)
Shelbyville (35)
Shepherdsville (35)
Somerset (53)
Sturgis (34)
Sulphur (35)
Union (35)
Warsaw (35)

LOUISIANA

Alexandria (60,61)
Arcadia (50)
Barataria (61)
Bastrop (50)
Baton Rouge (61)
Bogalusa (61)
Camp Polk (60)
Covington (61)
Crowley (60)
Delhi (51)
De Quincy (60)•
De Ridder (60)
Dixie (50)
Donaldsonville (61)
Eunice (61)
Ferriday (61)
Gilbert (61)
Grand Isle (61)•
Hammond (61)
Hodge (60)
Houma (61)
Jennings (60)
Lafayette (61)
Lake Charles (60)
La Place (61)
Leesville (60)
Madisonville (61)
Mansfield (60)
Many (60)•
Minden (50)
Monroe (51)
Natchitoches (60)
Newellton (61)
New Iberia (61)
New Orleans (61)
New Roads (61)
Oakdale (60)•
Opelousas (61)
Patterson (61)
Pollock (60)
Ruston (51)
St. Joseph (61)
Shreveport (50)
Springhill (50)
Tallulah (51)
Winnfield (60)
Winnsboro (61)

MAINE

Andover (8)•
Auburn (9)
Augusta (9)
Bangor (9)
Bar Harbor (9)
Belfast (9)
Bethel (9)
Biddeford (23)
Bowdoinham (23)
Brewer (9)
Brunswick (23)
Caribou (9)
Deblois (9)
Dexter (9)
East Corinth (6)
Eastport (9)
Farmington (9)
Freeport (23)
Fryeburg (9)
Greenville (9)
Houlton (9)
Kennebunk (23)
LaGrange (9)
Lewiston (9)
Limestone (9)
Madison (9)•
Millinocket (9)
Minot (9)
Newport (9)
Norridgewock (9)
Norway (9)
Old Town (9)
Phillips (9)
Pittsfield (9)
Pittston (9)
Portland (23)
Presque Isle (9)
Princeton (9)
Rangeley (9)
Rockland (9)
Sanford (23)
Scarboro (23)
Skowhegan (9)
South Portland (23)
Turner (9)
Waterville (9)
West Buxton (23)
Winterport (9)
Yarmouth (23)

MARYLAND

Aberdeen (38)
Annapolis (38)
Baltimore (38)
Beltsville (39)
Berwyn (39)
Brandywine (38)•
Camp Springs (39)
Churchville (38)
Clinton (39)
College Park (39)
Croom (39)
Cumberland (37)
Doncaster (38)
Easton (38)
Edgewood Arsenal (38)
Fort Meade (39)
Frederick (38)
Glenburnie (38)
Greenbelt (39)
Hagerstown (38)
Hyattsville (39)
Meekins Neck (38)
Patuxent River (38)
Piney Point (38)
Pomonkey (39)•
Priest Point (38)
Riverdale (39)
Rock Hall (38)
Rockville (39)
Salisbury (38)
Shady Side (38)•
Taneytown (38)
Westminster (38)
Worton (38)•
Ocean City (38)

MASSACHUSETTS

Adams (22)
Agawam (22)
Auburn (23)
Ayer (23)
Bedford (23)
Beverly (23)
Billerica (23)
Boston (23)
Brant Rock (23)
Brockton (23)
Brookfield (22)
Canton (23)
Chatham (23)
Chicopee Falls (22)
Clinton (23)
Easton (23)
Edgartown (23)•
Everett (23)
Falmouth (23)
Fitchburg (23)
Franklin (23)
Gardner (22)
Great Barrington (22)
Groton (23)
Haverhill (23)
Hyannis (23)
Lawrence (23)
Leicester (23)
Mansfield (23)
Marlboro (23)
Mendon (23)
Montague (22)
Myricks (23)
Nantucket Island (23)
New Bedford (23)
Newburyport (23)
Norfolk (23)
North Adams (22)
Northampton (22)
North Attleboro (23)
North Grafton (23)
Norwood (23)
Oak Bluffs (23)
Orange (22)
Palmer (22)
Peabody (23)
Pittsfield (22)
Rowley (23)•
Seekonk (23)
South Boston (23)
South Easton (23)
South Weymouth (23)
Springfield (22)
Squantum (23)
Taunton (23)
Vineyard Haven (23)
Wareham (23)•
West Barnstable (23)
Westboro (23)
Westfield (22)
Williamstown (22)
Worcester (23)

MICHIGAN

Adrian (18)
Allegan (18)
Alma (18)
Alpena (8)
Amasa (8)•
Ann Arbor (19)
Armada (19)
Atlanta (8)
AuGres (8)•
Baldwin (8)•
Bangor (18)
Battle Creek (18)
Bay City (19)
Belding (18)
Bellaire (8)•
Benton Harbor (18)
Big Beaver (19)
Big Lake (8)•
Big Rapids (18)
Birmingham (19)
Blaney (8)
Breedsville (18)
Cadillac (8)
Calumet (8)
Caro (19)
Centerville (18)•
Charlevoix (8)
Charlotte (18)
Clare (8)•
Clio (19)
Coldwater (18)
Croswell (19)
Crystal Falls (8)
Davison (19)
Detroit (19)
Dowagiac (18)
East Jordan (8)•
Elsie (18)
Escanaba (8)
Farmington (19)
Flint (19)
Fostoria (19)
Frankfort (8)
Fraser (19)
Gaylord (8)
Gladwin (8)
Grand Ledge (18)
Grand Rapids (18)
Grayling (8)
Greenville (18)
Harbor Beach (8)•
Harrison (8)•
Hartford (18)
Hastings (18)
Hillman (8)
Hillsdale (18)
Holland (18)
Houghton (8)
Houghton Heights (8)
Howell (19)
Ionia (18)
Iron Mountain (8)
Ironwood (7)
Ishpeming (8)•
Ithaca (18)
Jackson (18)
Kalamazoo (18)
Kalkaska (8)•
Kinross (8)
Lakeview (18)
Lansing (18)
Lapeer (19)
Lawton (18)
Loretto (8)•
Ludington (8)
Mackinaw City (8)•
Manistee (8)
Manistique (8)•
Marenisco (8)•
Marquette (8)
Marshall (18)
Mason (18)
Menominee (8)
Midland (18)
Milan (19)
Mio (8)•
Mt. Clemens (19)
Mt. Pleasant (18)
Munising (8)•
Muskegon (18)
Newaygo (18)
Newberry (8)•
Newport (19)
Niles (18)
Norway (8)
Oscoda (18)
Owosso (18)
Pellston (8)
Plymouth (19)
Pontiac (19)
Port Huron (19)
Prudenville (8)•
Raco (8)
Rexton (8)•
Rogers City (8)
Romulus (19)
Roscommon (8)•
Roseville (19)
Saginaw (18,19)
St. Helen (8)
St. Ignace (8)
St. James (8)•
Saline (19)
Sault Ste. Marie (8)
Sidnaw (8)•
South Branch (8)
South Haven (18)
Sparta (18)
Sturgis (18)
Tecumseh (19)
Three Rivers (18)
Traverse City (8)
Utica (19)
Warren (19)
Watersmeet (8)•
Wayne (19)
West Branch (8)
White Cloud (18)•
Wildwood (8)
Wixom (19)
Wyandotte (19)
Ypsilanti (19)

Onaway (8)•
Petoskey (8)•
Rothbury (18)

N.B. PARENTHETICAL NUMBERS REFER TO THE CHARTS AND DATA PAGES ON WHICH THESE LOCALES ARE INSCRIBED.
AN ASTERISK INDICATES THE FACILITY IS LISTED ON THE DATA PAGE BUT IS NOT CHARTED.

MINNESOTA

Aitkin (7)
Albert Lea (16)
Alexandria (6)
Amboy (16)
Anoka (7)
Appleton (6)
Austin (16)
Barnesville (6)
Baudette (7)
Bemidji (7)
Benson (6)
Blue Earth (16)
Brainerd (7)
Cokato (7)
Coleraine (7)
Crookston (6)
Detroit Lakes (6)
Dodge Center (7)
Duluth (7)
Ely (7)
Fairmont (16)
Faribault (7)
Fergus Falls (6)
Frontenac (7)
Graceville (6)
Grand Rapids (7)
Hamel (7)
Hastings (7)
Hector (7)
Hibbing (7)
Jordan (7)
Kenyon (7)
Lake City (7)
Le Sueur (7)
Little Falls (7)
Littlefork (7)
Litchfield (7)
Luverne (15)
Madison (6)
Mankato (7)
Marshall (6)
Mayer (7)•
Minneapolis (7)
Montevideo (6)
Monticello (7)
Morris (6)
New Brighton (7)
Nissiva (7)
New Elm (7)
Ortonville (6)
Osseo (7)
Park Rapids (6)
Pipestone (15)
Princeton (7)
Redwood Falls (6)
Robbinsdale (7)
Rochester (7,16)
St. Cloud (7)
St. Paul (7)
St. Peter (7)
Sherburn (16)
South St. Paul (7)•
Stanton (7)
Taylor Falls (7)
Thief River Falls (6)
Tofte (7)
Triumph (16)
Virginia (7)
Wadena (6)
Waseca (7)•
Westbrook (6)
White Bear Lake (7)
Willmar (6)
Winona (7)
Worthington (15)

MISSISSIPPI

Aberdeen (52)
Batesville (51)
Biloxi (64)
Brookhaven (61)
Canton (51)•
Clarksdale (51)
Cleveland (51)
Columbus (52)
Corinth (52)
Ellisville (64)•
Eupora (52)
Flora (51)
Forest (52)
Glen Allan (51)
Greenville (51)
Greenwood (51)
Grenada (52)
Gulfport (64)
Hattiesburg (64)
Heads (51)•
Houston (52)
Jackson (61)
Laurel (52)
Leland (51)
McComb (61)
McLaurin (64)
Marks (51)
Meridian (62)
Moorhead (51)
Natchez (61)
Nesbitt (51)
Newton (62)•
Oxford (52)
Pascagoula (64)
Pelahatchee (62)
Picayune (64)
Rockport (61)
Starkville (62)
Tupelo (52)
Tylertown (61)
Vicksburg (51)
Walls (51)
Winona (30)
Yazoo (51)
Yokena (61)
Zeiglerville (51)

MISSOURI

Advance (52)
Bethany (16)
Bolivar (32)
Boonville (33)
Bowling Green (16)
Branson (32)•
Brookfield (16)
Cameron (16)
Campbell (33)
Cape Girardeau (52)
Carthage (32)
Cassville (32)
Chillicothe (16)
Clinton (32)
Columbia (33)
Craig (15)
Diamond (32)
Ellisville (71)
Excelsior Spgs. (16)
Farmington (33)
Fenton (71)
Festus (33)
Fulton (33)
Garden City (32)
Grant City (16)
Gravois Mills (33)•
Hannibal (16)
Harrisonville (32)
Houston (33)
Iberia (33)
Independence (16)
Jefferson City (33)
Joplin (32)
Kansas City (16,32)
Kennett (33)•
Kirksville (16)
Kirkwood (71)
Knobnoster (32)
Lebanon (33)
Lexington (16)
Linkville (16)
Luray (16)
McBride (34)
Machens (71)•
Malden (52)
Marceline (16)
Marshall (16)
Marysville (16)
Mexico (16)
Moberly (16)
Neosho (32)
Nevada (32)
New Florence (33)
Osborn (16)
Poplar Bluffs (33)•
Rolla (33)
St. Charles (71)
St. Joseph (16)
St. Louis (71)•
St. Peters (33)
Savannah (16)
Sedalia (32)
Sikeston (52)•
Slater (16)
Spanish Lake (33,71)
Springfield (32)
Tarkio (15)
Trenton (16)
Unionville (16)
Valley Park (71)
Versailles (33)
Vichy (33)
Warrensburg (32)
West Plains (33)
Windsor (32)

MONTANA

Alberton (3)
Baker (5)
Belt (3)
Big Timber (4)
Billings (4)
Birney (4)•
Bozeman (3)
Butte (3)
Cascade (3)
Chester (3)
Chinook (4)•
Choteau (3)
Circle (4)
Columbus (4)
Conrad (3)
Custer (4)
Cut Bank (3)
Deer Lodge (3)
Dell (3)
Denton (4)
Dillon (3)
Drummond (3)
Ennis (3)•
Eureka (2)
Flathead (3)•
Forsyth (4)
Fort Benton (3)
Fort Peck (4)
Gates Park (3)•
Geraldine (3)
Geyser (3)
Glasgow (4)
Glendive (5)
Great Falls (3)
Gregson (3)
Hamilton (3)
Hardin (4)•
Harlem (4)
Harlowton (4)
Havre (4)
Helena (3)
Homestake (3)
Hot Springs (3)•
Huson (3)•
Ingomar (4)•
Jordan (4)•
Kalispell (3)
Lavina (4)
Lewistown (4)
Libby (2)
Livingston (3)
McDonald Pass (3)
Malta (4)
Mildred (4)
Miles City (4)
Missoula (3)
Mullan Pass (2)
Nibbe (4)
Park City (4)
Plains (3)
Plentywood (5)
Polesbridge (3)
Polson (3)
Poplar (4)•
Rapelje (4)
Red Lodge (4)•
Roundup (4)•
St. Xavier (4)
Scobey (4)
Seeley Lake (3)•
Shelby (3)
Sheridan (4)
Sidney (5)
Stanford (3)
Stevensville (3)
Superior (3)
Tampico (4)
Thompson Falls (2)
Townsend (3)
Troy (2)•
Twin Bridges (3)
Valier (3)
Vida (4)
West Yellowstone (3)
Whitehall (3)
White Sulphur Spgs. (3)
Whitetail (3)
Winston (3)
Wolf Point (4)

NEBRASKA

Ainsworth (15)
Alliance (14)
Atkinson (15)
Auburn (15)
Bayard (14)•
Beatrice (15)
Beaver City (15)
Benkelman (14)•
Big Springs (14)
Blair (15)
Brainard (15)
Broken Bow (15)•
Bruning (15)
Chadron (15)
Chappell (14)
Clay Center (15)
Columbus (15)
Cozed (15)
Crawford (14)
Crete (15)
David City (15)
Decatur (15)
Elgin (15)
Fairbury (15)
Falls City (15)
Fort Robinson (14)
Fremont (15)
Geneva (15)
Gordon (14)
Grand Island (15)
Harvard (15)
Hastings (15)
Hayes Center (14)
Hay Springs (14)
Hebron (15)
Holdrege (15)
Humboldt (15)
Imperial (14)
Kearney (15)
Lincoln (15)
Lorenzo (14)
McCook (14)
Mead (15)
Mitchell (14)
Norfolk (15)
North Platte (14)
Ogallala (14)
Ohiowa (15)
Omaha (15)
Oshkosh (14)
Overton (15)
Pender (15)
Rushville (14)•
Scottsbluff (14)
Scribner (15)
Seneca (14)
Sidney (14)
Tecumseh (15)
Valentine (14)•
Wayne (15)
Weeping Water (15)
Lexington (15)

NEVADA

Alamo (27)•
Austin (11,26)
Battle Mountain (11)
Boulder City (27)
Buffalo Valley (11)
Caliente (27)
Carlin (11)
Carson City (26)
Crystal (27)
Deeth (11)
Elko (11)
Ely (12)
Fallon (26)
Feraley (26)
Gabbs (26)
Hawthorne (26)
Humboldt (11)
Indian Springs (27)
Las Vegas (27)
Lovelock (11,26)
Manhattan (26)•
Minden (26)
Mormon (27)
Orovada (11)•
Owyhee (11)
Reno (26)
Scottys (26)
Searchlight (27)•
Smith (26)
Sparks (11,26)
Tonopah (26)
Ventosa (12)
Wadsworth (11)
Wells (12)
Winnemucca (11)
Yerington (26)

NEW HAMPSHIRE

Berlin (9)
Boscawen (23)
Claremont (22)
Concord (23)
Haverhill (19)
Hampton (23)
Hinsdale (22)
Hooksett (23)
Keene (22)
Lancaster (9)
Laconia (23)
Lebanon 22)
Littleton (9)
Manchester (23)
Nashua (23)
Newport (22)
North Conway (9)
Plymouth (23)
Portsmouth (23)
Sommersworth (23)
Twin Mountain (9)•
Wolfeboro (23)

NEW JERSEY

Adamston (40)•
Almonesson (39)
Andover (40)
Asbury Park (40)
Ashland (39)
Atlantic City (40)
Auburn (38)
Barrington (39)
Basking Ridge (40)
Belmar (40)
Belvidere (21)
Bendix (40)
Blairstown (21,40)
Boonton (40)
Bridgeport (39)
Bridgeton (38)
Burlington (39)
Caldwell (40)
Camden (39)
Cape May (40)
Cassville (40)
Chatsworth (40)•
Clarksville (40)
Clinton (40)
Elizabeth (40)
Forked River (40)
Freehold (40)
Glassboro (39)
Greenwich (38)
Hackettstown (40)
Keyport (40)•
Lakehurst (40)
Landisville (40)
Lebanon (40)
Lincoln Park (40)
Medford (39)
Metuchen (40)
Hightstown (40)
Millville (38)
Moorestown (39)
Morristown (40)
Newark (40)
New Brunswick (40)
North Brunswick (40)
Ocean City (40)•
Paterson (40)
Pennington (40)
Penns Grove (38)
Perth Amboy (40)•
Pitman (39)
Pittstown (38)
Princeton (40)
Rahway (40)
Readington (40)
Red Bank (40)
Richland (40)
Salem (38)
Sussex (22)
Trenton (39)
Vineland (38)
Wildwood (40)
Woodbine (40)
Woodbridge (40)
Wrightstown (40)

NEW MEXICO

Acomita (28)
Alamogordo (45)
Albuquerque (29)
Anton Chico (29)
Artesia (45)
Aztec (28)•
Belen (29)
Berino (44)
Carlsbad (45)
Carrizozo (45)
Clayton (29)
Clovis (29)
Columbus (44)
Cubero (28)•
Cuervo (29)
Deming (44)
Dora (45)•
Eagle Nest (29)•
El Morro (28)
Engle (44)
Farmington (28)
Fort Sumner (29)
Gallup (28)
Hachita (44)
Harrington Ranch(44)
Hobbs (46)
Hot Springs (44)
Hurley (44)
Jal (46)•
Juan Tomas (29)
Las Cruces (44)
Las Vegas (29)
Lordsburg (43)
Lovington (45)
Magdalena (29)
Maxwell (29)•
Mesilla Park (44)
Milnesand (45)
Mountainair (29)
Mount Riley (44)
Otto (29)
Peralta (29)
Portales (29)
Raton (29)
Rodeo (43)
Roswell (45)
Roy (29)•
Ruidoso (45)•
Santa Fe (29)
Shiprock (28)•
Silver City (44)
Strauss (44)
Taos (29)•
Tucumcari (29)
Tularosa (44)•
Wagon Mound (29)

NEW YORK

Accord (22)•
Albany (22)
Amityville (40)
Angola (20)
Amsterdam (22)
Arcade (20)
Armonk (22)
Auburn (21)
Auriesville (22)
Ballston Spa (22)

N.B. PARENTHETICAL NUMBERS REFER TO THE CHARTS AND DATA PAGES ON WHICH THESE LOCALES ARE ENCLOSED.
AN ASTERISK INDICATES THE DISTRICT IS LISTED ON THE DATA PAGE BUT IS NOT CHARTED.

NEW YORK

Batavia (20)
Bayport (40)*
Bedford (22)*
Beekman (22)
Bethpage (40)
Billings (22)
Binghamton (21)
Blasdell (20)
Boonville (21)
Brentwood (40)*
Buffalo (20)
Cairo (22)
Canastota (21)
Carthage (21)
Catskill (22)
Cheektowoga (20)
Cicero (21)
Clarence (20)
Clason's Point (40)
Colonie (22)
Cooperstown (22)
Cortland (21)
Dansville (21)
Delanson (22)
Depew (20)
Dunkirk (20)
East Amherst (20)
East Greenbush (22)
East Hampton (40)
East Pembroke (20)
Edgemere (40)
Elmira (21)
Endicott (21)
Falconer (20)
Farmingdale (40)
Fisher's Island (22)
Flatbush (40)
Flushing (40)
Fort Plain (22)
Fulton (22)
Gardenville (20)
Geneva (21)
Getzville (20)
Glens Falls (22)
Gloversville (22)
Gowanda (20)
Great Bend (9)
Greenridge (40)
Halcott Center (22)
Hamburg (20)
Hamilton (21)
Hammondsport (21)
Hancock (21)*
Hempstead (40)
Herkimer (22)
Hicksville (40)
Hilton (21)
Honeoye Falls (21)
Hornell (21)
Horseheads (21)
Idlewild (40)
Islip (40)
Ithaca (21)
Jamestown (20)
Johnstown (22)
Keene (9)*
Keeseville (9)
Kingston (22)
Kirkville (21)
Lake Placid (9)
Lancaster (20)
Lockport (20)
Malone (9)
Massapequa (40)
Massena (9)
Mastic (40)
Mattituck (40)
Medina (20)
Medway (22)
Mexico (21)
Middleburg (22)
Middletown (22)
Mineola (40)
Minoa (21)
Montauk (22)*
Montgomery (22)
Monticello (22)
Montour Falls (21)
Moravia (21)
Narrowsburg (21)
Carlisle (22)
Deer Park (40)
Newark (21)
New Baltimore (22)
Newburgh (22)
New City (22)
New Hackensack (22)
New Springville (40)
New York (40)
Niagara Falls (20)
North Tonawanda (20)
Northville (22)
Norwich (21)
Nyack (22)
Ogdensburg (9)
Olcott (20)
Olean (20)
Oneonta (21)
Owasco (21)*
Painted Post (21)
Palmyra (21)
Penn Yan (21)
Perry (20)
Piseco (22)
Pittsford (21)
Plattsburg (9)
Port Chester (40)
Port Jervis (22)
Potsdam (9)
Pulaski (21)
Ravena (22)
Red Creek (21)
Rexford (22)
Rhinebeck (22)
Richland (21)
Ripley (20)
Rochester (21)
Rockaway Park (40)
Rome (21)
Salamanca (20)
Saranac Lake (9)
Saratoga Springs (22)
Sayville (40)*
Schenectady (20-22)
Schuylerville (22)
Scottsville (21)
Selkirk (22)*
Seneca Falls (21)
Sidney (21)
Silver Creek (20)
Silver Springs (20)
Somers (22)
Springville (22)
Stephentown (22)
Stormville (22)
Syracuse (21)
Ticonderoga (22)
Tonawanda (20)
Travis (40)*
Troy (22)
Tupper Lake (9)
Utica (21)
Valley Stream (40)
Walden (22)
Walkill (22)
Wappingers Falls (22)
Warwick (22)
Watertown (21)
Wellsville (9)*
Westfield (20)
Westhampton Beach (40)
Westport (9)
White Plains (22)
Whitesville (21)
Williamsville (20)
Wingdale (22)
Wolcottsville (20)
Wurtsboro (22)
Port Washington (40)*
Richmondville (21)

NORTH CAROLINA

Aberdeen (55)
Albemarle (55)
Asheboro (55)
Asheville (54)
Atlantic (56)
Aydlette (56)
Barco (56)
Beaufort (56)
Belmont (55)
Black Mountain (54)
Bogue (56)
Burgaw (56)
Burlington (55)
Candor (55)*
Carolina Beach (56)
Chapel Hill (55)
Charlotte (55)
Cherry Point (56)
Clinton (56)
Concord (55)
Derita (55)
Draper (55)
Durham (55)
Eagle Springs (55)
Edenton (56)
Elizabeth City (56)
Erwin (56)*
Fayetteville (55)
Fort Bragg (55)
Franklin (54)
Gastonia (55)
Gibsonville (55)
Goldsboro (56)
Greensboro (55)
Greenville (56)
Henderson (56)
Hendersonville (54)
Hickory (55)
High Point (55)
Hoffman (55)
Jacksonville (56)*
Jonesville
Kannapolis (55)
Kings Mountain (55)
Kinston (56)
Lillington (55)
Lincolnton (55)
Lumberton (55)
Manteo (56)
Marion (54)
Maxton (55)
Mayodan (55)
Mocksville (55)
Monroe (55)
Morganton (54)
Mt. Airy (55)
Mt. Olive (56)
New Bern (56)
New River (56)
North Wilkesboro (55)
Oxford (55)
Pinehurst (55)
Pollocksville (56)
Raleigh (55)
Red Springs (55)
Reidsville (55)
Roanoke (56)
Rockingham (55)
Rocky Mount (56)
Roxboro (55)
Salisbury (55)
Sanford (55)
Selma (56)
Shelby (54)
Southern Pines (55)
South Mills (56)
Spindale (54)
Statesville (55)
Sylva (54)
Tarboro (56)
Wadesboro (55)
Wallace (56)
Warrenton (56)
Washington (56)
Weeksville (56)
West Jefferson (54)
Whiteville (55)
Wilmington (56)
Wilson (56)
Winston-Salem (55)
Yanceyville (55)
Zebulon (56)
Elkin (55)
Louisburg (56)

NORTH DAKOTA

Abercrombie (6)
Ashley (6)
Beach (5)
Bismarck (5)
Bowman (5)
Cando (6)
Carrington (6)
Crosby (5)
Dawson (6)
Devils Lake (6)
Dickinson (5)
Driscoll (5)
Fargo (6)
Fessenden (6)
Glen Ullin (5)
Golva (5)
Grand Forks (6)
Harvey (6)
Jamestown (6)
Judson (5)
Killdeer (5)
Langdon (6)
Lisbon (6)
Minot (5)
Mohall (5)
Mott (5)
New England (5)
New Rockford (6)
Parshall (5)
Pembina (6)
Rhame (5)
Rolla (6)
Rugby (5)
Towner (5)
Valley City (6)
Wahpeton (6)
Washburn (5)
Watford (5)
West Fargo (6)
Wheatland (6)
Williston (5)
Wyndmere (6)
Dunseith (5)*

OHIO

Akron (19)
Alliance (19)
Amanda (36)*
Archbold (18)
Ashland (19)
Ashtabula (20)
Athens (36)
Avon Lake (19)
Barberton (19)
Bedford (70)
Bowling Green (19)
Brecksville (19)
Brookfield (20)
Bucyrus (19)
Cambridge (36)
Canton (19)
Chagrin Falls (70)
Chardon (70)
Cherry Fork (36)
Chesapeake (36)
Chillicothe (36)
Cincinnati (35)
Cleveland (70)
Coldwater (35)
Columbus (36)
Conneaut (20)*
Crooksville (36)
Dayton (35)
Defiance (18)
E. Liverpool (20)
Elyria (70)
Fairfield (35)
Findlay (19)
Fremont (19)
Fostoria (19)
Galion (19)
Gallipolis (36)*
Greenford (20)
Greenville (35)
Grove City (36)
Hamilton (35)
Harrison (35)*
Hayesville (19)
Hicksville (18)
Hilliard (36)
Homerville (19)
Hudson (70)
Jackson (36)
Johnsville (35)
Kellys Island (19)*
Kent (19)
Kenton (36)
Lancaster (36)
Lebanon (35)*
LeRoy (19)
Lewisburg (35)
Lima (18)
Lorain (70)
Loveland (35)
Magnolia (36)
Mansfield (19)
Marietta (36)
Marion (36)
Mason (35)
Massillon (19)
Medina (19)
Middletown (35)
Minford (36)
Montezuma (35)
Morrow (35)
Mt. Liberty (36)
Mt. Orab (36)
Mt. Vernon (36)
Nevada (36)
Newark (36)
New Holland (36)
New Paris (35)
New Philadelphia (36)
North Benton (19)
Northfield (70)
North Royalton (19)
Norwalk (19)
Oxford (35)
Paulding (18)
Perry (19)
Piqua (35)
Port Clinton (19)
Portsmouth (36)
Put-In-Bay (19)
Rushsylvania (36)*
Sandusky (19)
Sharonville (35)
Sidney (35)
Solon (70)
Springfield (36)
Summit Station (36)
Tiffin (19)
Tiltonsville (37)*
Toledo (19)
Toronto (37)
Troy (35)
Urbana (36)
Vandalia (35)*
Van Wert (18)
Vermilion (70)
Verona (35)
Warren (20)
Washington (36)
Watertown (36)
Wauseon (18)
Wellington (19)
Willard (19)
Williamsfield (20)
Willoughby (70)
Wilmington (36)
Woodsfield (36)*
Wooster (19)
Youngstown (20)
Zaleski (36)*
Zanesville (36)

OKLAHOMA

Ada (49)
Afton (21)
Altus (47)
Anadarko (49)
Antlers (48)
Alva (31)
Ardmore (48)
Atoka (48)
Bartlesville (31)
Blackwell (31)
Boise City (30)
Buffalo (30)
Calumet (49)
Carnegie (47)
Cherokee (31)
Cheyenne (47)
Chickasha (49)
Claremore (32)
Clinton (47)
Cordell (47)
Cushing (31)
Delhi (47)
Dill (47)
Duncan (48)
Durant (48)
Edmond (31)
Elk City (47)
El Reno (49)
Enid (31)
Erick (47)
Fort Cobb (49)
Frederick (47)
Gage (30)
Geary (49)
Grandfield (47)
Guthrie (31)
Guymon (30)
Heavener (50)*
Hobart (47)
Holdenville (48)
Hollis (47)
Hugo (50)
Idabel (50)
Jefferson (31)
Jet (31)
Kingfisher (31)
Lamont (31)
Langston (31)
Lawton (47-48)
Lexington (49)
McAlester (48)
Mangum (47)
Marietta (48)
Marlow (48)
Miami (32)
Moore (49)
Moseley (32)
Muskogee (50)
Nashoba (50)*
Newalla (48)
Newkirk (31)
Norman (49)
Nowata (32)
Oklahoma City (32-49
Okmulgee (48)
Pauls Valley (48)
Pawhuska (31)
Perry (31)
Picher (32)
Ponca City (31)
Poteau (50)*
Pryor (32)
Red Fork (31)
Roosevelt (47)
Sapula (31)
Sayre (47)
Seminole (48)
Sentinel (47)
Shawnee (48)
Skiatook (31)
South Coffeyville (32)
Stillwater (31)
Stilwell (32)
Stroud (31)
Tahlequah (32)
Thomas (31)
Tishomingo (48)*
Tonkawa (31)
Tulsa (31-32)
Verdigris River (32)
Vinita (32)
Walters (48)
Washington (48)
Watonga (31)
Weatherford (47)
Wetumka (48)
Wewoka (48)
Woodward (30)
Yukon (49)

N.B. PARENTHETICAL NUMBERS REFER TO THE CHARTS AND DATA PAGES ON WHICH THESE LOCALES ARE INSCRIBED
AN ASTERISK INDICATES THE FACILITY IS LISTED ON THE DATA PAGE BUT IS NOT CHARTED.

OREGON

Albany (1)
Alkali (11)
Arlington (1)
Astoria (1)
Aurora (71)
Baker (2)
Bay Ocean (1)
Beaver Marsh (10)
Beaverton (71)
Bend (1)
Boardman (2)
Brooks (1)
Burns (11)
Cabbage Hill (2)
Canby (71)
Cave Junction (10)*
Corvallis (1)
Cow Creek (10)
Dallas (1)*
Denmark (10)
Elgin (2)*
Eugene (1)
Grants Pass (10)
Gresham (71)
Harrisburg (1)
Hillsboro (71)
Hood River (1)
Idanha (1)*
John Day (2)
Joseph (2)
Klamath Falls (10)
La Grande (2)
Lakeside (10)
Lakeview (10)
Lebanon (1)
Lexington (2)*
McMinnville (1)
McNary (1)
Madras (1)
Medford (10)
Milton (2)
Monmouth (1)
Mulino (71)
Myrtle (10)
Newberg (71)*
Newport (1)
North Bend (10)
Ontario (2)
Oregon City (71)
Pendleton (2)
Pilot Rock (2)
Portland (71)
Prineville (1)
Redmond (1)
Riddle (10)
Rome (11)
Roseburg (10)
Scappoose (71)
Sheridan (1)
Silverton (1)*
Sutherlin (10)*
Sweet Home (1)
The Dalles (1)
Tillamook (1)
Trail (10)
Troutdale (71)
Vernonia (1)
Wasco (1)
Williamette (1)
Woodburn (71)
Worden (10)
Hermiston (2)

PENNSYLVANIA

Allentown (21,37,38)
Altoona (37)
Ambler (39)
Andreas (21)
Athens (21)
Beaver Falls (20)
Bellefonte (21)
Bloomsburg (21)
Boothwyn (38)
Bradford (20)
Bristol (39)
Brockway (20)
Brooksville (20)
Buckstown (37)
Butler (20)
Canadensis (21)
Campbelltown (38)
Carlisle (38)
Cecil (37)
Chambersburg (38)
Chester (39)
Clarion (20)
Clearfield (20)
Coatesville (38)
Collegeville (39)
Conneaut Lake (20)
Connellsville (37)
Conway (20)
Corbett (21)
Corry (20)
Cresson (37)
Daleville (21)
Danville (21)
Douglasville (38)
Doylestown (39)
Dubois (20)
Duncansville (37)
Easton (21)
Ebensburg (37)
Elysburg (21)
Erie (20)
Fogelsville (38)
Gettysburg (38)
Gordon (21)
Granville (38)
Greensburg (37)
Greenville (20)
Grove City (20)
Hanover (38)
Harrisburg (38)
Harrison (37)
Hazleton (21)
Hershey (38)
Holmesburg (39)
Hookstown (37)
Huntingdon (37)
Indiana (37)
Johnstown (37)
Johnsville (39)
Kearsarge (20)
Kutztown (38)
Kylertown (20)
Lake Carey (21)
Lancaster (38)
Langhorne (39)
Lansdale (39)
Latrobe (37)
Leechburg (37)
Lehighton (21)
Lewistown (38)
Linesville (20)
Lock Haven (21)
Marchand (20)
Mars (20)
Matamoras (22)
Meadville (20)
Mercer (20)
Middletown (38)
Milton (21)
Mohrsville (38)
Montgomeryville (39)
Morrisville (39)
Mt. Jewett (20)
Mt. Pleasant (37)
Mt. Pocono (21)
Mt. Union (38)
Myerstown (38)
New Alexandria (37)
New Castle (20)
New Hanover (38)
New Kingston (38)
Nicholson (21)*
Norristown (39)
North Springfield (37)
Oil City (20)
Olyphant (21)*
Paoli (38)
Philadelphia (39)
Philipsburg (20)
Pine Grove (38)
Pitcairn (37)
Pittsburgh (37)
Pottstown (38)
Pottsville (38)
Punxsutawney (20)
Quakertown (39)
Hughesville (21)
Reading (38)
Ridgeway (20)
Salix (37)
Sayre (21)
Scranton (21)
Selinsgrove (21)
Seven Valleys (38)
Slatington (21)
Somerset (37)
State College (21)
Stroudsburg (21)
Summerhill (37)
Sunbury (21)
Tamaqua (21)
Tarentum (37)
Towanda (21)
Tunkhannock (21)
Utahville (20)
Vandergrift (37)
Wallaceton (20)
Warren (20)
Waynesboro (38)
Waynesburg (37)
Wilkes-Barre (21)
Williamsport (21)
Willow Grove (39)
Womelsdorf (38)
York (21,38)
Youngsville (20)

RHODE ISLAND

Charlestown (23)
Greene (23)
Providence (23)
Quonset Point (23)
Smithfield (23)
Westerly (23)
Woonsocket (23)

SOUTH CAROLINA

Aiken (66)
Allendale (66)
Anderson (54)
Bamberg (66)
Barnwell (66)
Beaufort (66)
Bennettsville (55)
Cokesbury Falls (54)
Camden (55)
Charleston (66)
Cheraw (55)
Chesnee (54)*
Chester (55)
Columbia (66)
Darlington (55)
Ellore (66)
Estill (66)
Florence (55)
Georgetown (66)
Greenville (54)
Greenwood (54)
Hartsville (55)
Kershaw (55)
Lancaster (55)
Lane (66)
Laurens (54)
Little Rock (55)*
Manning (66)
Myrtle Beach (66)
North (66)
North Augusta (66)
Orangeburg (66)
Parris Island (66)
Ridgeland (66)
Rock Hills (55)
St. Matthews (66)
Spartanburg (54)
Summerville (66)
Sumter (66)
Timmonsville (55)
Trenton (66)
Walterboro (66)
Wampee (66)

SOUTH DAKOTA

Aberdeen (6)
Belle Fourche (5)*
Brookings (6)
Chamberlain (15)
Custer (14)
Edgemont (14)
Elk Point (15)*
Eureka (6)*
Faulkton (6)
Flandreau (6)
Gregory (15)
Hot Springs (14)
Huron (6)
Lemmon (5)
Madison (6)
Martin (14)
Miller (6)
Mitchell (15)
Mobridge (5)
Newell (5)
Philip (5)
Pierre (5)
Platte (15)
Rapid City (5)
Redfield (6)*
Reliance (15)
Sioux Falls (15)
Spearfish (5)
Stevens City (15)
Vermillion (15)
Wagner (15)
Watertown (6)
WiHow Lake (6)
Winner (15)
Yankton (15)

TENNESSEE

Chattanooga (53)
Clarksville (52)
Cookeville (53)
Cowan (53)
Crossville (53)
Cuba (52)
Dyersburg (52)
Fairview (53)
Fisherville (52)
Gallatin (53)
Graham (52)
Green Brier (53)
Humboldt (52)
Jacks Creek (52)
Jackson (52)
Kingston (53)
Knoxville (54)
Lebanon (53)
McMinnville (53)*
Manchester (53)
Martin (52)
Memphis (52)
Milan (52)
Morristown (54)
Mount Pleasant (52)
Murfreesboro (53)
Nashville (53)
Piedmont (54)
Pulaski (53)
Smithville (53)
Tallassee (54)
Tri-City (54)
Tullahoma (53)
Union City (52)
Walterhill (53)
Whiteville (52)

TEXAS

Abernathy (46)
Abilene (47)
Adrian (30)
Alamo (57)
Albany (47)
Alice (57)
Alpine (44)
Amarillo (30)
Anahuac (60)
Anson (47)
Arcola (59)
Arlie (47)
Arlington (49)
Asherton (59)
Austin (58)
Austwell (57)
Baird (47)
Ballinger (59)
Bandera (58)
Bay City (59)
Beaumont (59,60)
Beeville (57)
Belton (59)
Big Spring (46)
Bonham (48)
Borger (30)
Bowie (48)*
Brackettville (58)
Brady (58)
Breckenridge (47)
Brownfield (46)
Brownsville (57)
Brownwood (58)
Bryan (59)
Burkburnett (47)
Burnet (58)
Cameron (59)*
Canadian (30)
Candelaria (44)*
Canyon (30)
Carrizo Springs (58)
Carthage (58)
Castolon (44)*
Castroville (58)*
Childress (47)
Cisco (47)
Clarendon (47)
Claude (30)
Cleburne (59)
Coleman (58)
College Station (59)
Colorado City (46)
Comanche (58)*
Commerce (48)
Conroe (59)
Corpus Christi (57)
Corsicana (59)
Crane (46)
Crystal City (57)
Cuero (57,59)
Cypress (59)
Dalhart (30)
Dallas (49)
Damon (59)
Delaware Springs (45)
Del Rio (44)
Denison (48)
Denton (48)
Dimmitt (30)
Dolores (57)*
Dryden (44)
Dublin (58)
Dumas (30)
Duncanville (49)
Eagle Pass (57)
Eastland (47)
Eden (58)
Edinburg (58)
Edna (57)
El Campo (59)
Eldorado (46)
Electra (47)
El Paso (44)
Elsa (57)
Ennis (59)
Fabens (44)
Falfurrias (57)
Floydada (30)
Forney (48)
Fort Hancock (45)*
Fort McKavett (58)
Ft. Stockton (46)
Fort Worth (49)
Freeport (57)
Freer (57)*
Friona (30)
Gainesville (48)
Galveston (60)
Garland (49)
Gatesville (59)
Georgetown (59)
Gilmer (50)*
Gladewater (50)
Gonzales (59)
Goose Creek (60)
Gorman (58)
Granbury (48)
Clarksville (50)
Cruver (30)
Grand Prairie (49)
Gregory (57)
Greenville (48)
Guadalupe Pass (45)
Hamilton (58)
Hammond (59)
Handley (49)
Harlingen (57)
Harpersville (47)
Haslett (48,49)
Hawkins (50)
Henderson (60)
Hereford (30)
Hitchcock (57)
Hondo (58)
Houston (59,60)
Hudspeth (45)
Hueco Mountain (44)
Huntsville (59)
Idalou (46)
Iraan (46)*
Jacksonville (59)
Joshua (48)
Karnack (50)
Kaufman (49)
Kenedy (57)
Kent (45)
Kermit (46)
Kerrick (30)
Kerrville (58)
Kilgore (50)
Kileen (59)
Kingsville (57)
Kirbyville (60)*
Knox City (47)
Lamesa (46)
Lampasas (58)
Laredo (57)
Leaday (58)
Levelland (46)*
Littlefield (46)
Llano (58)
Longfellow (44)*
Longview (50)
Los Fresnos (57)
Louise (59)
Lubbock (46)
Lufkin (60)
Luling (59)
McAllen (57)
McCamey (46)
McKinney (49)
Madisonville (59)*
Magnolia Beach (57)
Marathon (44)*
Marfa (44)
Marlin (59)
Marshall (50)
Mason (58)*
Matagorda Island (57)
Matagorda Pen. (57)
Mathias (57)*
Mercedes (57)
Mexia (59)
Midland (46)
Mineola (50)
Mineral Wells (48)
Mission (57)
Monahans (46)
Muleshoe (30)
Muenster (48)
Nacogdoches (60)
Navasota (59)
Newark (49)
New Braunfels (58,71)
Odessa (46)
Old Ocean (57)
Olney (47)
Orange (60)
Orla (45)
Ozona (46)
Paducah (47)
Palacios (57)
Palestine (59)
Pampa (47)
Paris (50)
Parker (59)
Pawnee (57)
Pecos (45)
Perryton (30)
LaPorte (60)*
Mt. Pleasant (50)

N.B. PARENTHETICAL NUMBERS REFER TO THE CHARTS AND DATA PAGES ON WHICH THESE LOCALES ARE INSCRIBED.
AN ASTERISK INDICATES THE FACILITY IS LISTED ON THE DATA PAGE BUT IS NOT CHARTED.

TEXAS

Plainview (30)
Pleasanton (57)
Port Arthur (60)
Portland (57)
Port Lavaca (57)
Poteet (57)
Prairie Hill (59)
Presidio (44)•
Pyote (46)
Quanah (47)
Ranger (47)
Raymondville (57)
Red Bluff (45)
Refugio (57)
Rita Santa (46)•
Roaring Springs (46)
Rockport (57)
Rock Springs (58)•
Salt Flat (45)
San Angelo (46,58)
San Antonio (71)
San Benito (57)
Sanderson (44)•
San Marcos (58)
Sayers (71)
Schulenburg (59)
Seguin (58)
Seymour (47)
Sherman (48)
Sierra Blanca (45)•
Simms (30)
Sinton (57)
Soncy (30)
Spring Branch (58)
Spur (46,47)
Stamford (47)
Stanton (46)
Stephenville (58,
Sulphur Springs (48)
Sweetwater (47)
Taft (57)
Taylor (59)
Temple (59)
Terlingua (44)•
Terrell (48,49)
Texarkana (50)
Texas City (60)
Texhoma (30)
Talia (30)
Twitty (47)
Tyler (59)
Uvalde (58)
Van Horn (45)
Velasco (57)
Vernon (47)
Victoria (57)
Waco (59)
Waxahachie (49)
Weatherford (48)
Webster (59)
Wellington (47)
Weslaco (57)•
Westbrook (46)
Wharton (59)
Wichita Falls (47)
Wills Point (48)
Wink (46)
Winters (58)
Wolfe City (48)
Yoakum (59)
Zuehl (58)
Spearman (30)
Teague (59)

UTAH

Beaver (27)
Bountiful (12)
Brigham (12)
Bryce Canyon (27)
Cedar City (27)
Corinne (12)
Delta (12)
Duchesne (12)•
Enterprise (27)
Ephraim (12)•
Fairfield (12)
Fillmore (27)
Goulding (28)
Grantsville (12)
Hanksville (28)
Huntsville (12)
Knolls (12)
Layton (12)
Logan (12)
Low (12)
Lucin (12)
Midvale (12)
Milford (27)
Mt. Pleasant (12)•
Myton (12)•
Nephi (12)
Ogden (12)
Price (12)
Promontory Point (12)
Provo (12)
Richfield (27)
Riverton (12)
Roosevelt (13)
Saint George (27)
Salt Lake City (12)
Spanish Fork (12)
Timpie (12)
Toole (12)
Vernal (13)
Wendover (12)

VERMONT

Bennington (22)
Berlin (9)
Bristol (9)
Burlington (9)
Fair Haven (22)
Grande Isle (9)
Huntington (9)
Manchester (22)
Newport (9)
Rutland (22)
St. Johnsbury (9)
Springfield (22)
Swanton (9)
Vergennes (9)
White River Jct. (22)

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Alberta (56)
Alexandria (39)
Altavista (55)
Annandale (39)
Bedford (55)
Big Stone Gap (54)
Blacksburg (55)
Blackstone (56)
Charlottesville (37)
Chester (38)
Chilhowie (54)
Chincoteague (38)
Clarksville (56)•
Covington (37)
Creeds (56)
Dahlgren (38)
Danville (55)
Dawn (38)
Deep Creek (56)
Drivers (70)
Eclipse (56)
Emporia (56)
Falls Church (39)
Farmville (56)
Fentress (70)
Franklin (70)
Fredericksburg (38)
Front Royal (37)
Galax (55)
Gordonsville (37)
Greys Point (38)•
Hampton (70)
Harcum (38)•
Harrisonburg (37)
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Hot Springs (57)
Langley (70)
Lawrenceville (56)
Leesburg (38)
Lexington (37)
Lively (38)
Lynchburg (37)
Manassas (38)
Martinsville (55)
Clover (55)
Melfa (38)
Milford (38)
Montvale (37)
Mt. Vernon (39)
Narrows (37)
Norfolk (70)
Oceana (70)
Parksley (38)
Petersburg (56)
Pulaski (55)
Pungo (70)
Quantico (39)
Richlands (54)
Richmond (38)
Roanoke (55)
Staunton (37)
Suffolk (70)
Tappahannock (38)
Warrenton (38)
Waverly (70)
Waynesboro (37)
Weirwood (38)
West Point (38)
Williamsburg (56)
Winchester (37)
Windsor (70)
Virginia Beach (70)

WASHINGTON

Aberdeen (1)
Almira (2)
Arlington (1)
Bellevue (1)
Bellingham (1)
Blaine (1)
Bothell (1)•
Bremerton (71)
Burlington (1)
Camano Island (1)
Camas (71)•
Chehalis (1)
Chelan (2)
Chewelah (2)
Clarkston (2)
Cle Elum (1)
College Place (2).
Colville (2)
Connell (2)
Coulee City (2)
Coupeville (1)
Davenport (2)
Deer Park (2)
Dungeness (1)
Easton (1)
East Sound (1)•
Ellensburg (1)
Enumclaw (71)
Ephrata (2)
Everett (1)
Forks (1)•
Goldendale (1)•
Harrington (2)
Hobart (1)
Ilwaco (1)•
Issaquah (71)
Kelso (1)
Kennewick (2)
Kent (71)
Kittitas (1)
La Crosse (2)
Lakeview (1)
Lind (2)
Mead (2)
Metaline Falls (2)
Monroe (1)
Moses Lake (2)
Mt. Vernon (1)
Neah Bay (1)
Newport (2)
North Bend (1)
Okanogan (2)
Olympia (1)
Omak (2)
Opportunity (2)
Orchards (71)
Oroville (2)
Pasco (2)
Pateros (2)
Port Angeles (1)
Port Orchard (1)
Port Townsend (1)
Prosser (2)
Pullman (2)
Puyallup (71)
Quillayute (1)
Randle (1)•
Renton (71)
Republic (2)•
Ritzville (2)•
Rosalia (2)
Seattle (71)
Shelton (1)
Silverdale (71)
Snohomish (1)
Spanaway (71)
Spokane (2)
Stevenson (1)
Sunnyside (2)
Tacoma (71)
Toledo (1)
Tonasket (2)
Toppenish (1)
Twisp (1)
Vancouver (71)
Walla Walla (2)
Washougal (1)
Washtucna (2)
Wenatchee (1)
Westport (1)•
Whidbey Island (1)
Wilbur (2)
Winthrop (1)•
Woodland (1)
Yakima (1)

WEST VIRGINIA

Beckley (36)
Buckhannon (37)
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Moorefield (37)
Morgantown (37)
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Paynesville (36)
Pence Springs (37)•
Petersburg (37)
Princeton (36)
Ravenswood (36)
Romney (37)
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Spencer (36)
Sutton (37)
Terra Alta (37)
Weston (37)
Wheeling (37)
White Sulphur Sgs. (37)
Williamson (36)
Winfield (36)
Logan (36)

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Amery (7)
Antigo (8)
Appleton (8)
Arbor-Vitae (8)•
Ashland (7)
Baraboo (17)
Beaver Dam (17)
Black River Falls (7)
Bloomer (7)
Boulder Junction (8)
Boyceville (7)
Brodhead (17)
Camp Douglas (16)
Camp McCoy (16)
Chetek (7)
Chippewa Falls (7)
Clintonville (8)
Colby (7)
Dallas (7)
Darlington (16)
Durand (7)
Eagle River (8)•
Eau Claire (7)
Elkhorn (17)
Fifield (7)•
Fond du Lac (17, 8)
Genesee (17)
Green Bay (8)
Hayward (7)
Hudson (7)
Janesville (17)
Jefferson (17)
Kenosha (17)
Kohler (17)
La Crosse (16)
Ladysmith (7)
Lake Delton (17)
Land O' Lakes (8)
Lone Rock (16)
Madison (17)
Manitowoc (8)
Manitowish (8)
Marcy (17)
Marshfield (7)
Medford (7)
Menominie (7)
Merrill (8)•
Milwaukee (17)
Monroe (17)
Neenah (8)
Neillsville (7)
Oconto Falls (8)
Omro (8)
Oshkosk (8)
Phillips (7)
Portage (17)
Racine (17)
Rhinelander (8)
Rice Lake (7)
Richland Center (16)
Shullsburg (16)
Shawano (8)
Sparta (16)
Spooner (7)
Stevens Point (8)
Sturgeon Bay (8)
Sturtevant (17)
Superior (7)
Three Lakes (8)
Tomah (16)
Tomahawk (8)•
Washington Island (8)•
Watertown (17)
Waukesha (17)
Waupaca (8)
Waupin (17)
Wausau (8)
West Bend (17)
Whitewater (17)
Wisconsin Rapids (8)

WYOMING

Afton (12)
Archer (14)
Big Piney (12)•
Buffalo (4)
Casper (13)
Cheyenne (14)
Cody (4)
Cokeville (12)
Cowley (4)
Douglas (13)
Dull Center (14)
Egbert (14)
Evanston (12)
Fort Bridger (12)
Gillette (4)
Greybull (4)
Jackson (12)
Kemmerer (12)
Knight (12)
Lander (13)
Laramie (13)
Lusk (14)
Meadows (14)
Medicine Bow (13)
Midwest (13)
New Castle (14)
Pine Bluffs (14)
Pinedale (13)
Point of Rocks (13)
Powell (4)
Rawlins (13)
Riverton (13)
Rock Springs (13)
Sheridan (4)
Silver Crown (13)
Sinclair (13)
Sussex (13)
Thermopolis (13)•
Torrington (14)
Ucross (4)
Wamsutter (13)
Wheatland (14)
Worland (16)•

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DIGEST OF AIR TRAFFIC CONTROL PROCEDURES

This digest is prepared especially for the use of pilots operating within control areas, airport approach zones and airport traffic zones. For detailed information, see Civil Aeronautics Administration Manual 60, AAF Regulation 60-16, and pertinent Navy Publications.

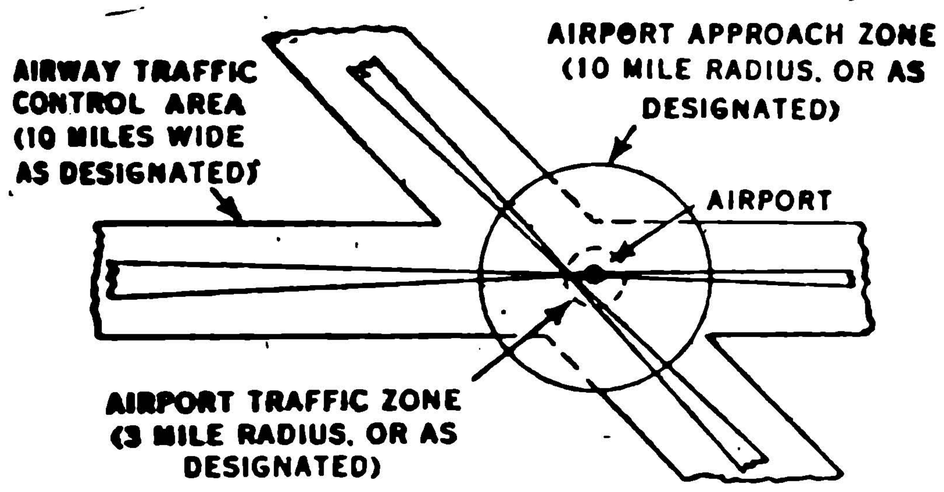
CONTACT FLIGHT RULES WEATHER MINIMUMS

	Inside Airport Traffic Zone (3-mile radius)	Inside Control Area (but outside of Airport Traffic Zones)	Elsewhere
Flights at altitudes of more than 700 feet above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	500 feet vertically, 2000 feet horizontally from all clouds - 3 miles visibility (or 1 mile with traffic clearance)	500 feet vertically, 2000 feet horizontally from all clouds - 1 mile visibility
Flights at altitudes of 700 feet or less above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	Clear of clouds * * 1 mile visibility	Clear of clouds * * 1 mile visibility

*If traffic conditions permit, a control tower or control center will issue a traffic clearance when the minimums are less than those specified, but under this provision the flight must remain clear of clouds.

* *In arpt approach zones flights must remain 500 ft vertically and 2000 ft horizontally from all clouds unless a center or tower issues a traffic clearance for flight "clear of clouds".

CONTROLLED AREAS



FLIGHT PROCEDURES AND CONDITIONS

The types of flight plans and conditions under which aircraft may be operated are summarized as follows:

Contact Flight Rule (CFR) - Aircraft must be flown in weather conditions equal to or better than those outlined in the weather minima chart without benefit of reductions authorized by a traffic clearance. No flight plan or communication contacts are necessary other than as required by an airport traffic control tower for regulation of local airport traffic.

Contact Flight Rule - Controlled - Aircraft may be operated in weather conditions lower than the basic weather minima within control areas, airport approach zones, and airport traffic zones, providing the pilot files flight plan specifying the route to be flown with an airway traffic control center or airport traffic control tower, he receives a traffic clearance and he complies with all conditions stipulated in the clearance. Communication contacts and position reports may be required by Air Traffic Control for this type of flight, as traffic control separation will be afforded aircraft on the same basis as aircraft operating on an IFR flight plan.

Instrument Flight Rule - (IFR) - Pilots proposing to operate aircraft in accordance with instrument flight rules are required to: file a complete flight plan with an airway traffic control center or airport traffic control tower and obtain a traffic clearance from the center or tower prior to flight; maintain continuous listening watch on the appropriate radio frequency, and report by radio the time and altitude of passing each designated reporting point. When an aircraft on an IFR flight plan is operating in weather conditions lower than the basic CFR minima, a minimum altitude of 1000 feet above the surface must be maintained. A traffic clearance specifying that a portion of a flight is to be conducted in accordance with contact flight rules (CFR) will require that the pilot maintain, without reduction, the basic contact flight rule minima as specified in CAR 60 and assume the responsibility of avoiding other aircraft during the portion of the flight specified. In the event of two-way radio failure, a pilot may (1) proceed according to current flight plan, maintaining the minimum safe altitude or the last acknowledged assigned altitude, whichever is higher, to the range station from which approach will be started to the airport of intended landing, and commence descent at approach time last authorized; or if such time has not been received and acknowledged, commence descent at the time of arrival specified in the flight plan; or (2) if weather conditions permit, proceed in accordance with CFR; or (3) land as soon as practicable. Normally, if the aircraft is operating in contact flight rule weather conditions at the time the radio failure is discovered, the pilot should proceed in accordance with contact flight rules to the airport of first intended landing or to the nearest suitable airport. If this is not possible, the pilot will proceed according to current flight plan. In order that uniform flight levels will be maintained by all aircraft, the altimeter should always be set to the altimeter setting of the nearest reporting station as the flight proceeds. The altimeter setting is issued by the Weather Bureau and, when placed on the barometric scale of the altimeter, will result in a reading of the elevation above sea level on the height scale of the instrument.

Note: A flight plan is required on all AAF flights except for local flights within a defined local flying area.

Arrival reports - It should be noted that whenever a flight plan has been filed, whether for CFR or IFR operation, an arrival report is required, unless the pilot has stated in the flight plan that such report will not be filed.

Maintenance of Flight Altitudes - Within control areas, aircraft should be flown at even or odd thousand-foot levels above sea level depending upon the direction of flight as indicated by odd or even minimum altitudes shown in Air Navigation Radio Aids (airway and radio facility charts), unless other altitudes are assigned and approved by an airway traffic control center.

Cruising altitudes outside of control areas or approach zones shall correspond to the direction of flight as indicated below:

MAG Heading	Indicated Altitude (feet above sea level)
0° - 89° inclusive,	Odd thousands: 1,000; 3,000; etc.
90° - 179° inclusive,	Odd thousands plus 500 feet: 1,500; 3,500; etc.
180° - 269° inclusive,	Even thousands: 2,000; 4,000; etc.
270° - 359° inclusive,	Even thousands plus 500 feet: 2,500; 4,500; etc.

AIRPORT TRAFFIC CONTROL PROCEDURES

Aircraft with Two-way Radio: If operating under contact flight rules, arriving aircraft should establish communication with the control tower when approximately 15 miles from the airport of destination. The tower will issue such instructions as are necessary. Pilots should remain tuned to the tower until the landing is completed and the aircraft parked. If on an instrument flight plan, arriving aircraft should remain on range frequency as long as required for navigational purposes. The control tower should not be contacted until after a clearance "to the tower" has been received and the aircraft is 15 miles or less from the airport and clear of clouds, unless otherwise instructed. The clearance, "Cleared to Blank Tower", is also approval for approach subject to any restrictions or instructions contained in the clearance. This clearance, without any restrictions, is approval to make approach for a landing using whatever type of approach desired by the pilot.

Aircraft with Receiver Only: Remain tuned to the tower at all times when within the airport traffic zone. Acknowledge signals in the daytime by movement of ailerons or rudder on the ground and by rocking wings in the air, and at night by flashing landing light. Clearance from the tower should be received for taxying, landing and taking-off; however, sufficient movement of the aircraft to attract the attention of the tower is permitted. If tower does not issue radio instructions, watch for light signals as the tower may not realize that the aircraft is equipped with a receiver.

Aircraft without Radio Equipment: Observe the tower for light signals, and acknowledge as above. The light signals are:

VISUAL SIGNALS FROM PORTABLE TRAFFIC SIGNAL LIGHT

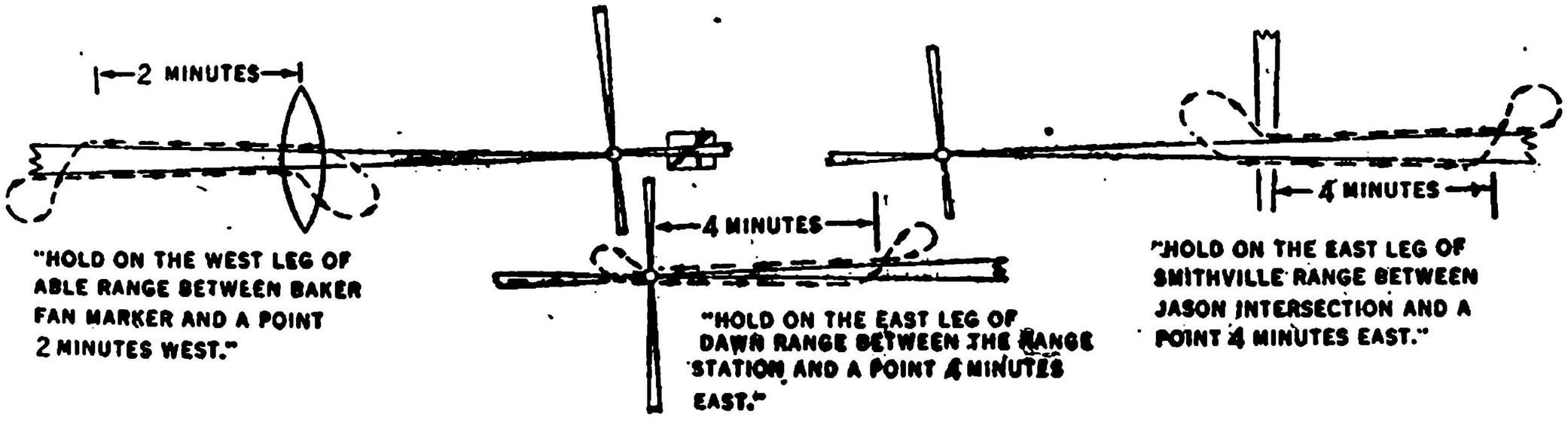
Color and Type of Signal	Taxi-ing	Ready for Take-off	In Flight
STEADY GREEN	XXXXXXX	Cleared for take-off	Cleared to land
FLASHING GREEN	Continue Taxi-ing	XXXXXXXXXXX	XXXXXXXXXXXXXXX
STEADY RED	Stop	Clear the Runway Immediately, and Wait	Give Way to Other Aircraft and Continue Circling
FLASHING RED	Return to Hangar Line	Return to Hangar Line	Return and land
ALTERNATING RED AND GREEN	General Warning Signal—Exercise Extreme Caution		

Traffic and Taxi Patterns have been established at busy airports to illustrate the desired flow of aircraft on the ground and in the air under specified wind conditions. If the traffic pattern is not known, follow other aircraft unless otherwise instructed.

If a pilot does not receive either radio or visual signal from the tower when approaching for a landing, he should make at least one complete circle of the airport conforming to the traffic pattern, and then start approach for a landing. The pilot should be on the alert for a signal from the tower and maintain a watch for other aircraft.

HOLDING PROCEDURES FOLLOWED BY AIRCRAFT AT RADIO FIXES

The standard holding flight path of an aircraft operating on an instrument flight rule flight plan and being held at a radio fix is to follow the right edge of the on-course signal of the specified leg of the appropriate radio range. The aircraft shall hold between the designated holding point and a point 4 minutes' flying time therefrom in the direction specified, starting procedure turns at the holding point and a point 4 minutes therefrom. Unless prevented by obstructions or unless otherwise advised by an Airway Traffic Control Center or Civil Aeronautics Administration Airport Traffic Control Tower, the initial turn of a procedure turn shall be made to the left when flying away from the range station and to the right when flying toward the range station. The point to be used as the designated holding point will be identified in the traffic clearance which contains instructions for the aircraft to hold. When holding at an approach control marker, the holding flight path will extend from the specified holding point to a point not to exceed 2 minutes' flying time therefrom in the direction specified. When instructions are received giving the time of departure from the holding point, the pilot may adjust his flight path so as to be able to depart from the marker at the exact time specified.

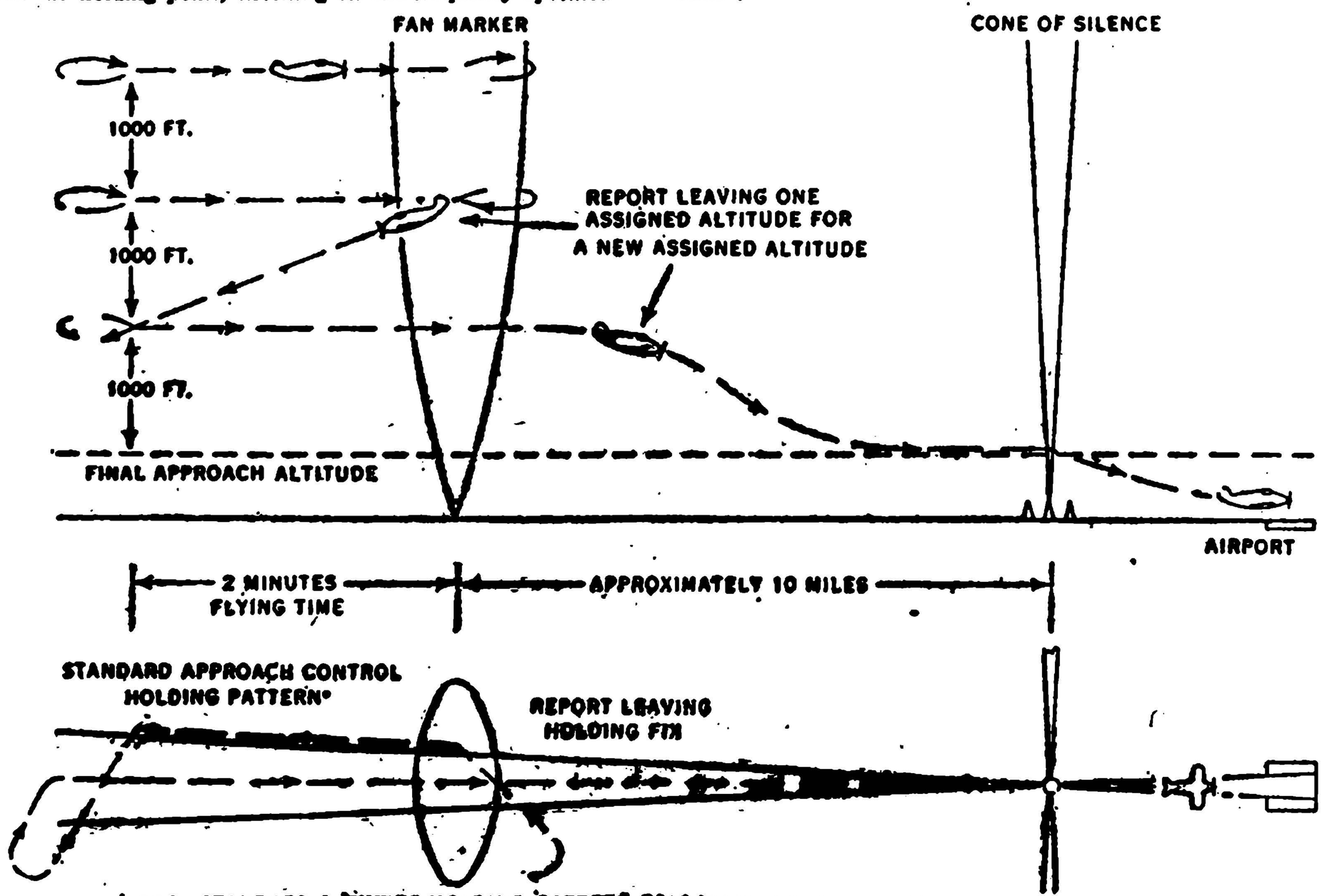


CFR flight plans may be filed with any CAA airways communication station or airway traffic control center. These flight plans are not transmitted to the point of destination but are held in suspense until notice of arrival is received. One hour after the estimated time of arrival, if no notice of arrival is received, queries are sent out over CAA communication systems to determine the location of the aircraft. If the arrival report is not received within three hours, search and rescue operations are initiated. Inasmuch as the Government may be put to considerable expense in determining the location of aircraft when an arrival report is not filed, it is vitally necessary that all pilots using this service make certain that notice of arrival is filed with the CAA communications station at the termination of the flight. Arrival reports are transmitted over CAA circuits to the station holding the flight plan.

In order to reduce radio congestion, pilots should file CFR flight plans, when required, in person or by telephoning the airways communication station or airway traffic control center. CAA control towers have discontinued accepting CFR flight plans for transmission and will not normally file arrival reports except upon the specific request of the pilot. Whenever practicable, however, it is desired that arrival reports be filed in the same manner as flight plans.

APPROACH CONTROL PROCEDURES

Approach control is a service whereby Civil Aeronautics Administration airport traffic control towers issue control instructions in instrument weather conditions, by communicating directly with pilots over the voice feature of a radio range, or over a very-high frequency channel of the control tower. Ordinarily, aircraft will be cleared by the airway traffic control center to the holding fix, (fan marker or other radio fix) with appropriate holding instructions. Instructions to hold "UNTIL FURTHER ADVISED BY (Name of) APPROACH CONTROL ON (Blank) KILOCYCLES" are included by the airway traffic control center so that the pilot will know on which frequency he will receive further instructions from the tower. When he arrives over the holding point, the pilot initiates a call to "(Name of) APPROACH CONTROL" and advises time and altitude over the holding point, listening on the frequency specified in the ATC clearance for further instructions. Radio contacts required thereafter: (a) when vacating any previously assigned flight level for a newly assigned level; (b) when leaving holding point. Each pilot in an approach sequence will be given advance notice as to the time he should leave the holding marker on approach to the airport. When the time of leaving the holding point has been received, the pilot should shorten the standard holding path remaining in the immediate vicinity of the marker so as to leave the marker as closely as possible to the designated time. Pilots should maintain communication by listening to approach control frequency until cleared to the tower's local control frequency (278 kc. or equivalent). Departing aircraft will receive initial instructions on the tower's local control frequency. Approach Control is established at locations indicated in "Air Navigation Radio Aids".



AIR NAVIGATION RADIO AIDS

LEGEND

(3) - Station guards 3105,4495,6210 kcs.
(4) - Station guards 3105,4495,6210,3117.5 kcs.
ILS - Instrument landing system
(7-24) - Hours of operation (7 a.m. to midnight) on a 24-hour clock basis.
↘ Indicates a new facility, out of alphabetical order. Refer to bottom of column for new radio facility coverage.

RADIO CLASS DESIGNATIONS

AC...Approach Control Tower, CAA
B....Scheduled Broadcast Station (broadcasts weather reports at 15 and 45 minutes after the hour)
C....Control Tower, CAA
CA...Control Tower, Army
CI...Control Tower (City,County,Private, etc.)
CN...Control Tower, Navy
D....Distantly controlled
FM...VHF fan type marker (100 watts)
FMK..Compass locator station when combined with fan marker
GCA..Ground control approach system
H....Non-directional radio-beacon (homing), power 50 watts or more
ILS..Instrument Landing System
IM...VHF boundary marker
K....Independent compass locator station
LFM..VHF fan type marker, low powered (5 watts not over 10 miles from range)
MH...Non-directional radio-beacon (homing), power less than 50 watts
ML...Range (loop radiators), power less than 50 watts
MMK..Compass locator station when combined with middle marker of ILS
MRA..Range (adcock,vertical radiators), power more than 50, less than 150 watts
MRL..Range (loop radiators), power more than 50, less than 150 watts
OM...VHF outer marker
OMK..Compass locator station when combined with outer marker of ILS
P....Point to point radio
RA...Range (adcock,vertical radiators), power 150 watts or more
RL...Range (loop radiators), power 150 watts or more
S....Simultaneous transmission of range signals and voice
T....Teletype
TX...Principal teletype
V....Voice communication with aircraft
VAR..Visual-aural VHF range
W....Without voice facilities
Z....VHF station location marker at a range station

N.B.-Variation is computed at the station. The distance from station to field is computed from the center of the range station to the nearest edge of the useable area of the airport.

RADIOTELEGRAPH CODE

A ·—	G —·—	M ——	S ···	Y —·——
B —···	H ····	N —·	T —	Z ——··
C —·—·	I ··	O ———	U ··—	
D —··	J ·———	P ·——·	V ···—	
E ·	K —·—	Q ——·—	W ·——	
F ··—·	L ·—··	R ·—·	X —··—	

AIRWAY RADIO COMMUNICATIONS

GENERAL

All radio range stations (class RA, RL, MRA, MRL, ML) emit directional signals (type A2 emission) 1020 cycles per second modulation. All radiobeacon stations (class H and MH) emit non-directional signals (type A2 emission) 1020 cycles per second modulation. Unless otherwise noted, all stations, other than class MH, operate continuously within their assigned hours of service except during interruptions for voice transmission, on the same frequencies where simultaneous transmission is not available and during shutdowns for maintenance purposes. Class MH stations operate on request unless otherwise cited. The effective range of an MH facility is ordinarily 25 miles. Voice communications facilities are available unless "W" (without voice) is included in the classification. Examples: SMRAW; MRLW; HW; HWT. Transmission of voice on a frequency other than the range frequency is indicated as MRLW-V. When no "W" is included in station class, the "V" indicates voice feature on two frequencies, namely, range frequency and, generally, V.H.F. of 116.1 mcs. The classification designation "B" denotes that the station broadcasts airway and meteorological information on a scheduled basis at 15 and 45 minutes past each hour.

All Civil Aeronautics Administration stations equipped for voice communications with aircraft stand continuous listening watches on the frequencies of 3105, 4495, 3117.5, and 6210 kcs., unless otherwise cited.

AUTOMATIC RANGE MONITORING SYSTEM

The automatic range monitoring system will automatically notify all pilots using a range on which it is installed, whenever an abnormal condition exists on the final approach course, the only course monitored at the present time.

The notification, or warning signal, will consist of the slow transmission of one group of three "U"s (··— ··— ··—), between two station identification transmissions. This warning signal will be transmitted: (a) whenever a course displacement of 3° or more exists; (b) whenever a sudden and large loss of signal strength occurs; (c) or whenever an apparent on-course signal (loss of N-A keying, producing a monotone which sounds like an on-course signal) exists throughout all quadrants.

Loss of signal strength is obvious, and loss of N-A keying is easily ascertainable by the pilot whenever the three "U"s identify an abnormal condition. The flier should suspect course displacement, upon hearing the warning signal, if there has been no drop in range signal strength and the interlocked N and A on-course signal is well defined. On the other hand, the loss of N-A keying is indicated by warning transmission once only, when normal identifications are also missing.

In the case of range course displacement, the greater the course displacement, the earlier in the period between station identifications transmissions will the "UUU" signal be heard. An occasional warning signal transmission not repeated in every cycle, followed by the normal identification, may be disregarded since it may be occasioned simply by momentary power fluctuations.

N.B. The Air Navigation Radio Aids portion of this publication lists only those data received prior to the Friday noon preceding the Tuesday publication date. Refer to the charts or notices to airmen for later data.

All continuously operated CAA Radio Range and Radio Beacon Stations having voice facilities on the Range or Radio Beacon Frequencies broadcast weather reports at 15 and 45 minutes past each hour

At each station the material broadcast consists of the local weather report and the latest available surface weather reports from surrounding locations. Reports more than one hour old are not broadcast.

FILING OF "OVER" REPORTS

It has been noted that a number of pilots engaged in point-to-point flights now file "over" reports with airport traffic control towers instead of with airway communications stations at the same locations. Since the communications stations often have traffic clearances and advisory information pertaining to the conditions along the route of flight which are intended for delivery to the pilot upon his reporting over the station or fix, a delay in the delivery of this information may result when the "over" reports are not made to the communications station. Pilots are urged, as far as possible, to file "over" reports with the appropriate airways communications station in order to realize the maximum benefit of this service. In other words, use the call "Radio" instead of "Tower", and listen for a reply on the range frequency. Every effort should be made to file "over" reports when passing over those points designated as "Radio Fixes" on the Radio Facilities Charts. Refer to Chart Legend.

(a) Pilots of aircraft operating on contact flight rule flight plans who desire to make flight progress reports shall include in the report the phrase "CFR flight plan from _____ to _____".

(b) Pilots of aircraft operating on instrument flight rule flight plans and who are required, therefore, to make flight progress reports, shall include in the report the phrase "Instrument flight plan". NOTE: The word "instrument", rather than the abbreviation "IFR" is used in (b) above to avoid confusion between the abbreviations "CFR" and "IFR" under difficult radio reception conditions.

VHF RADIO RANGES

Simultaneous Visual-Aural VHF Radio Ranges have two visual and two aural courses with simultaneous voice transmission on the range frequency. A range of this type operates in the band 112 to 118 MC. (Certain stations have been temporarily assigned the following frequencies: 108.3 mc, 108.7 mc, 109.1 mc.) Modulation frequencies of 90 cps and 150 cps are used to produce the visual courses. The sector in which the 90-cps modulation predominates is to be known as the "Yellow Sector" and that in which the 150-cps modulation predominates is to be known as the "Blue Sector." The aural courses are produced through the use of "N" and "A" signals with modulation frequency of 1020 cps.

VHF RADIO RANGE ORIENTATION: The assignment of the blue and yellow sectors and the "A" and "N" sectors of C.A.A. VHF radio ranges is accomplished in accordance with the following rules:

(a) On Green and Red Airways, the blue sector lies north of the visual course, the yellow south; the "N" sector lies to the east of the aural course; the "A" west.

(b) On Amber and Blue Airways, the blue sector lies west of the visual course, the yellow east; the "N" sector lies to the north of the aural course, the "A" south.

(c) The visual courses are projected along the airway, the aural courses across the airway.

RADIOTELEGRAPH CALLING PROCEDURE

Radiotelegraph (A2 emission), in addition to radiotelephone (A3 emission), may be used to call Civil Aeronautics Administration airway communications stations. Radiotelegraph (A1 emission) may be used, but its use will require a prearranged schedule since receivers at the stations are set for A2 and A3 emission only. The Civil Aeronautics Administration airway communications station will reply on the radio range voice channel except as otherwise provided. When calling Civil Aeronautics Administration airway communications stations, it is desired that the radio call letters of the station be used. However, the station will be on the alert for calls consisting of the radio range identification (listed under "Station Identification"), which may be used after two calls by voice have not been answered by the Civil Aeronautics Administration airway communications station or when unusual circumstances prevail or during emergencies. For example: A pilot using the Richmond, Virginia, radio range, who is unable to contact that station by voice, will radiotelegraph the following, using A2 emission: "RW RW RW K". Upon receipt of such a signal, the aircraft communicator at the Richmond radio range station will acknowledge on the voice channel of the radio range as follows: "UNIDENTIFIED AIRCRAFT CALLING RICHMOND RADIO, OVER". The pilot then would resume use of voice for completion of the contact unless conditions require continuance of radio-telegraph. It is important that pilots use this procedure only after two unsuccessful attempts by voice to contact Civil Aeronautics Administration airway communications stations.

RADIOTELEPHONE (CALLING PROCEDURE)

When calling Civil Aeronautics Administration stations (except towers) or Army and Navy radio ranges, utilize the call "RADIO". When calling all airport control towers, be they Army, Navy, CAA, or municipal, utilize the call "TOWER." When calling Army Airways, utilize the call "ARMY AIRWAYS." Examples:

(a) "JACKSONVILLE RADIO THIS IS STINSON 1234" . . . . . When calling a radio range
(b) "JACKSONVILLE TOWER THIS IS WACO 4567" . . . . . When calling a control tower
(c) "JACKSONVILLE ARMY AIRWAYS THIS IS ARMY 725" . . . When calling an Army Airways Communications Station
(d) "LANGLEY ARMY RADIO THIS IS ARMY 472". . . . . When calling an Army radio range

COMBINED UNITED STATES-BRITISH RADIOTELEPHONE (R/T PROCEDURE)

This new procedure has previously been adopted by the War and Navy Departments for use by military aircraft and became effective June 1, 1942, for use by Civil Aeronautics Administration airway communications stations and airport traffic control towers and civilian aircraft. Military pilots may secure complete information from Army publication FM 24-9. The major changes in procedure are summarized below for the benefit of civilian pilots not having access to FM 24-9.

1. Use of the words "THIS IS," instead of the word "FROM."
2. Use of the word "OVER," instead of the words "GO AHEAD," to indicate, "MY TRANSMISSION IS ENDED AND I EXPECT A RESPONSE FROM YOU."
3. Use of the word "OUT" when conversation is ended and no response is expected.
4. Use of the phrase "SAY AGAIN," instead of the word "REPEAT," when requesting a repetition.
5. Use of the phrase "I SAY AGAIN," instead of the phrase "I WILL REPEAT," when a repetition is being given.

Examples: WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER MESSAGE FOR YOU (Optional) OVER.

CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE SEND YOUR MESSAGE (Optional) OVER.

WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER (message) OVER.

CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE ROGER OUT.

Pertinent parts of all current publications, including Manual 60, are superseded insofar as communications procedures are concerned, by the new procedure indicated above effective June 1, 1942.

INSTRUMENT LANDING SYSTEMS

An Instrument Landing System comprises a localizer (possibly a glide path), and a boundary, middle, and outer marker. Infrequently, the middle or boundary marker is not commissioned at present and future installations will have no boundary markers. The entire system of transmitters (localizer, glide path, and markers) operates on V.H.F. All markers operate on 75 megacycles.

Compass locator stations, on the other hand, operate on the low frequency 200-400 kilocycle band. Compass locator data will be found under marker data on the second line of those stations having such facilities. These are, with rare exceptions, located at the same sites as the V.H.F. markers, and have single letter identifications.

The localizer course of the Instrument Landing System divides the blue sector (150 cycles), which is to the right of the course in respect to the landing aircraft on final approach, from the yellow sector (90 cycles), which is to the left.

DIRECTORY OF AIRPORTS

LEGEND

NAME

(When city and airport names are identical, the airport name is omitted in the interest of space-conservation)

(A) Airport owned or leased in whole or in part by Army
(N) Airport owned or leased in whole or in part by Navy
★ CAA Intermediate Field
(P) Non-military airport available for use by military aircraft (See note 2)

⊕ Seaplane Base: repairs, fuel, marine railway, ramp, etc.
⚓ Seaplane Anchorage: approved landing area with limited servicing.

If the airport name is followed by an (A) for Army or (N) for Navy, the field is exclusively an Army or Navy field. If the field is not exclusively Army or Navy and may be used by civilians, no (A) or (N) follows the airport name.

SIZE — CLASS

40: Length of longest landing strip (unpaved) in hundreds of feet
40h: Length of longest hard-surfaced runway in hundreds of feet (Seaplane landing areas over 5 miles in length are classified as unlimited and indicated as "unl.").

N.B. Only the length of the longest runway is cited, and its direction is not indicated. Space restrictions occasioned this policy, but logic justified it. The logical assumption may be made that runways have been laid out in accordance with the local wind rose. Therefore, in all calms, or gentle-angling winds, or winds aligned with the longest runway, the longest runway will be used. When a wind not aligned with the longest runway is of such intensity that the longest runway cannot be used, this wind makes the use of runway aligned with the wind, even though much shorter than the longest runway, sufficiently long from a safety viewpoint. Too, prior knowledge that there is, for example, a NW/SE runway is of little value to a pilot if, when he arrives over the field the wind is blowing too strongly from another direction to use that runway. Finally, the larger the number indicating the longest runway length, the greater is the assurance of a sufficient number of runways for all-wind coverage.

RADIO

R1: Voice availability via tower, range (or homing device), or voice station.
R2: Range (or homing device), and tower
R3: Range (or homing device), tower, and instrument landing system.

LIGHTS

L1: Beacon only.
L2: Beacon and boundary.
L3: Beacon, boundary, and obstruction.
L4: Beacon, boundary, obstruction, and flood.
L5: Beacon, boundary, obstruction, flood, and runway contact.
L6: Beacon, boundary, obstruction, flood, runway contact, and instrument approach

("L" without a numeral indicates incomplete lighting, such as "flood lights only" or "temporary portable runway lighting only". The class always indicates the highest element available but does not necessarily include all intermediate elements).

SERVICING

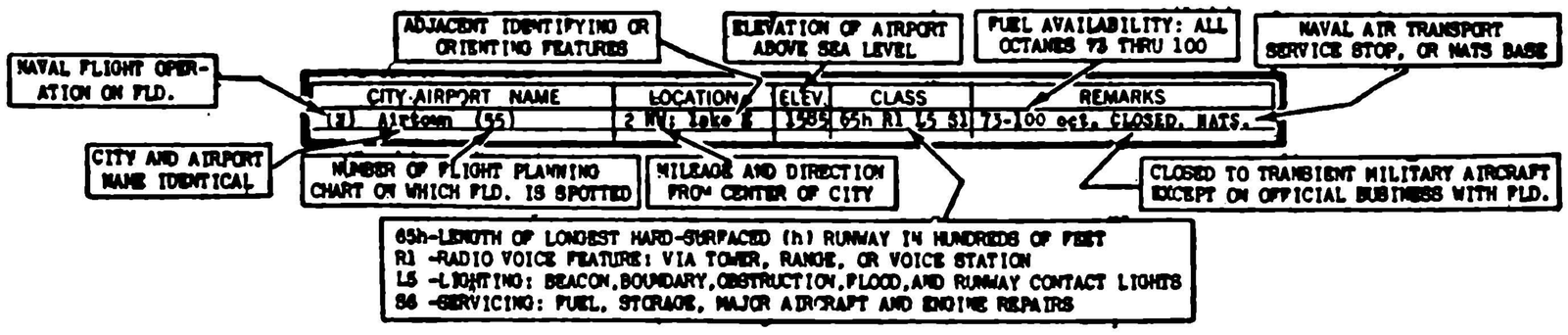
S1: Fuel.
S2: Fuel, storage.
S3: Fuel, storage, minor aircraft repairs.
S4: Fuel, storage, minor aircraft, and minor engine repairs.
S5: Fuel, storage, major aircraft, and minor engine repairs.
S6: Fuel, storage, major aircraft, and major engine repairs.

N. B. Very often small civilian fields (particularly in non-metropolitan areas) will have no full-time attendant. Frequently servicing at such fields in isolated communities is available only by circling the town to attract the operator's attention.
These fields are often recognizable by airport class, comparable to, for example, "1S S1". "1S S1" suggests that the field is not too large, and that the field may not have a full-time attendant even though fuel is stored there.
Lack of radio or lighting facilities, indicated by the absence of an "R" or "L" in the airport class, is a further indication that a full-time attendant may not be available. Absence of an "S" (servicing) indicates definitely that fuel, if available at all, is available only by truck from town. Any field carrying no indication of radio (R), lights (L), or servicing (S) in airport class column should be used with caution, especially a field of the small category. Fields of this nature may be inactive or not maintained, and thus dangerous for use.

NOTES

1. "(NC)" not charted.
2. ↘ indicates space where new airport data received after type has been set up should have been inserted. Refer to bottom of column for new airport coverage.
3. "(P)" in CITY-AIRPORT NAME column indicates (1) those municipal airports improved with public funds and covered by an agreement between the municipality and the United States Government permitting government planes to use such fields in common with others and without charge, to the extent possible without restriction of non-military operations or (2) other civil airports for which legal permits covering their limited use by military aircraft have been procured and filed with the real estate agency of the War Department.
4. ★ "Effingham Int., 10, LS-IL" in CITY-AIRPORT NAME column indicates that the airport is Effingham CAA Intermediate Field, Site 10, on the St. Louis-Indianapolis Airway. Municipal airports where the lights are maintained by the CAA are listed similarly except that there is no prefixed star or "Int.".
5. In location column, the word "miles" has been eliminated because of space limitations. Mileage is that from the center of city to airport.
6. In Remarks column:
   (a) "91 oct." indicates octane rating of fuel available.
   (b) "CLOSED" indicates closed to all transient military aircraft, except on official business this station or in emergency.
   (c) "Port. B-2 lights" indicates cone-mounted lights outlining runways. These lights are portable and may be shifted from runway to runway.
   (d) "INACTIVE" indicates field is on temporarily inactive status as regards military use and that Army or Navy facilities have been discontinued. "INACTIVE" in the remarks column of a civilian airport whose class indicates there are servicing (S) facilities on the field denotes that servicing is available for civilian aircraft only. Use of Army fields in this status is to be as indicated by Special Notice on first page of the Notices to Airmen section, and in notices published under heading of field. Use of Navy fields is indicated under field heading.
   (e) "PRIVATE" indicates field is available for owner only, and not to be used by others except in emergency.
   (f) OBSTRUCTIONS: Because of space limitations only the more dangerous obstructions are indicated. Natural obstructions, like trees, clearly discernible for contact operations, are frequently omitted, for example. On the other hand, all pole lines are cited.
   (g) "Fld. lgts on prior req." indicates field light are available only by previous phone call, telegram, or letter. It must be remembered that most fields do not have 24-hour operation. Accordingly, the field lights, indicated for such a lighted field (and, in some instances, even the rotating beacons) are available only by prior request. When an airport classification indicates a lighted field, and there is no notation in the REMARKS column, the field lights burn all night or will be turned on when a radio request is made or a plane circles the field.
   (h) "FEE" indicates landing fee for private aircraft.
7. Airline stop airport names are capitalized.

COLUMNAR EXPLANATION



AIRPORT NAME ABBREVIATIONS

(A)	-	Army Field	(N)	•	Navy Field	LTA	•	Lighter than Air	NAS	•	Naval Air Station
AAB	-	Army Air Base	NAAF	•	Naval Aux. Air Facility	MCAS	•	Marine Corps Air Station	NPG	•	Naval Proving Grounds
AAF	-	Army Air Field	NAAS	•	Naval Aux. Air Station	MCAAF	•	Marine Corps Aux. Air Facility	OLF	•	Outlying Field (Navy)
CGAS	-	Coast Guard Air Station	NAF	•	Naval Air Facility	MCGB	•	Marine Corps Glider Base			

N.B. The Directory of Airports portion of this publication lists only those data received prior to the Friday noon preceding the Tuesday publication date. Refer to the charts or notices to Airmen for later data.

FLIGHT PLANNING CHARTS

CHART CONTENTS

The Flight Planning Charts, in addition to the warning (R) and caution (O) symbols, indicate: (1) All aeronautical radio facilities except air carrier stations; (2) all minimum safe altitudes and fix mileages; (3) all Army and Navy fields and CAA intermediate fields, and all active civilian airports; (4) all danger and caution areas; (5) all designated airways. These charts indicate all facilities, and the current status thereof, on record with the CAA as of 0001 E.S.T. each alternate Tuesday.

CHART PURPOSE & USE

The primary purpose of these charts is to facilitate the planning and execution of cross-country flights. The user should check the charts for the symboled (R) or (O) items between his point of departure and his destination. If there is none, there is no necessity for him to read the Notices to Airmen section as far as temporary items are concerned. As for permanent changes—all major ones, such as new fields, abandoned fields, range frequency changes, etc., are currently reflected on the charts. For record-keeping purposes and for the correction of charts and publications, however, the Notices to Airmen section should be carefully read.

CHART HAZARD SYMBOLS

The current status of facilities and hazards as reported to the CAA is indicated by the symbol system. An airport closed because of construction, an inoperative range, a revised range quadrant identification or range frequency, or course realignment of 20° or more, for example, are indicated by the symbol (R) for red, or warning. An airport under construction but usable, or an inoperative control tower, on the other hand, is indicated by the symbol (O) for orange, or caution.

RANGE COURSE LENGTHS

In general, the length of radio range courses shown herein indicates the approximate location where it is expected that a pilot will tune from one radio range to the next one along his route of flight. Such change-over points, however, are not mandatory, and it is expected that a pilot will use his best judgment in selecting change-over points that will best serve his needs.

Warning

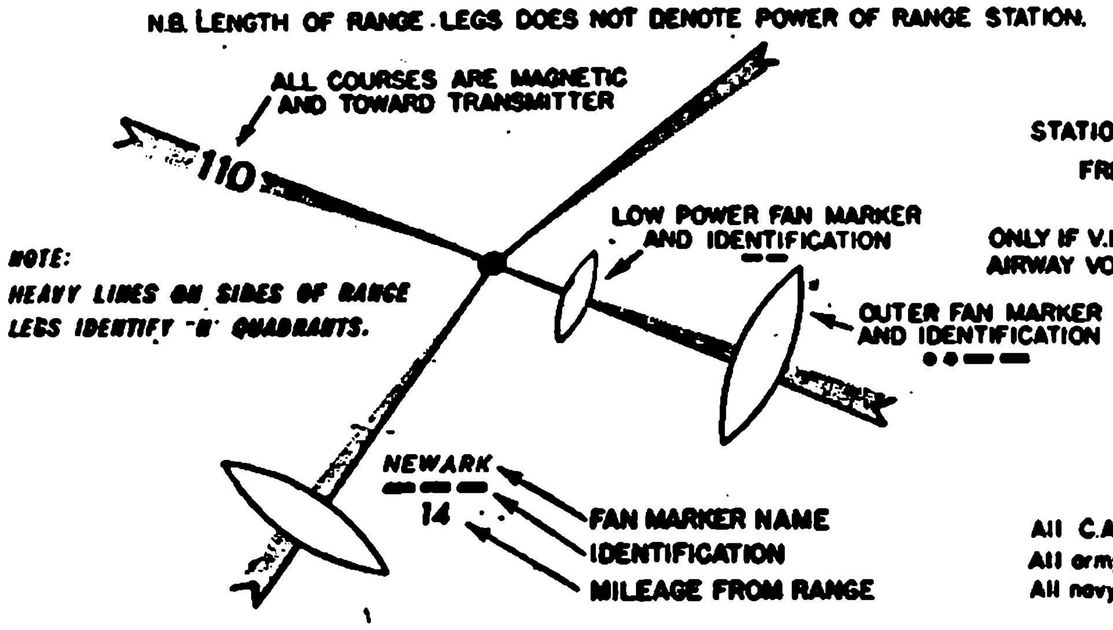
Radio range courses are subject to disturbances that result in multiple courses, and signal fades and surges over rough country. Pilots flying over unfamiliar routes are cautioned to be on the alert to detect these vagaries, particularly over mountainous terrain.

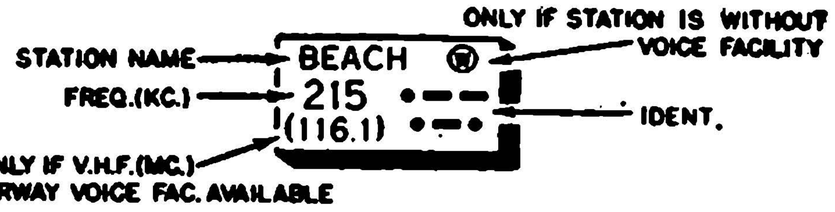
LEGEND

(FLIGHT PLANNING CHARTS)

RADIO RANGE AND ASSOCIATED FACILITIES SYMBOLS:

N.B. LENGTH OF RANGE LEGS DOES NOT DENOTE POWER OF RANGE STATION.





HOMING DEVICE
(NON-DIRECTIONAL RADIO FACILITY)
N.B. H TYPE OPERATES CONT. MH OPERATES ONLY ON REQUEST, ALTHOUGH VOICE AVAILABLE CONT.

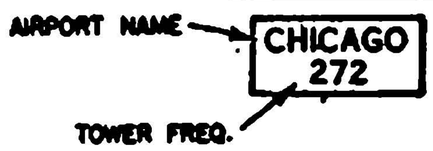
COMPASS LOCATOR STATION
(CONTINUOUS OPERATION; NO VOICE)

All C.A.A. communication stations and towers guard, at least, 3105, 4495, 6210, and 3117.5 kcs.
All army stations, with few exceptions, guard 3105 and 4495 kcs.
All navy stations, with few exceptions, guard 3105 and 3295 kcs. and are authorized to transmit on 3295 and 6970 kcs. in addition to their low and very high frequencies

AIRPORT SYMBOLS AND DATA BOX:

- ✡ : CIVILIAN OTHER THAN C.A.A.
- ✪ : ARMY OR NAVY
- ◇ : C.A.A. INTERMEDIATE
- ⊖ : SEAPLANE BASE
- ‡ : SEAPLANE ANCHORAGE
- + AIRPORT NAME : AVAILABLE DATA INCOMPLETE OR UNVERIFIED BY CAA
- + NO.7 : MILITARY AUXILIARY FIELD

REVISED CHARTS



UNREVISED CHARTS

AIRPORT NAME - FIELD ELEVATION
AIRPORT CLASS - TOWER LOW FREQ.(TOWER V.H.F.)

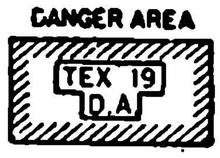
FOR COMPLETE AIRPORT DATA SEE TABULATION ON BACK OF CHART.

MISCELLANEOUS:

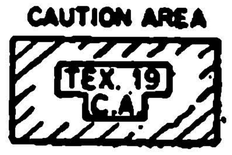
3 MILE RADIUS AIRPORT TRAFFIC ZONE

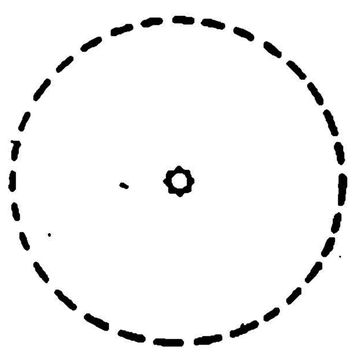
BOUNDARY OF ATC
FLIGHT ADVISORY AREA

DANGER AREA

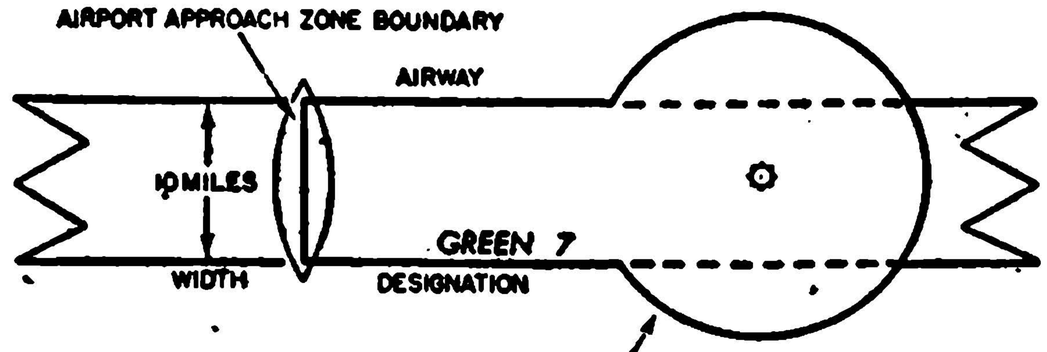


CAUTION AREA

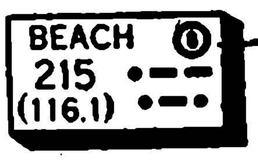




10 MILE RADIUS
AIRPORT APPROACH ZONE
AS DEPICTED ON CHARTS
5,6,8,27,28,30,43 THRU 46,63



10 MILE RADIUS AIRPORT APPROACH ZONE
AS DEPICTED ON CHARTS
1 THRU 4,7,9 THRU 26,29,31 THRU 42,
47 THRU 62,64 THRU 71.



← RADIO FACILITY HAZARDOUS FOR USE (see NOTICES TO AIRMEN section)

← AIRPORT HAZARDOUS FOR USE (see NOTICES TO AIRMEN section)

RADIO

OREGON

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASTORIA NAS (Navy)	323 (NKE)	MRLWZ	
BAY OCEAN FM (Navy)	(- - - -)	FM, 303°,7.5	Tillamook NAS
EUGENE (Mahlon Sweet)	251 (EU)	SBRAZ-DT,150°,4.5	(4)
PORTLAND (AAB)	332 (PD)	SBRAZ-DT,171°,3.1	(4)
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
REDMOND (Roberts)	368 (RG)	SBRAZ-DT, 101°,4.3	(4)
THE DALLES	230 (ND)	SBRAZ-DT,251°,2.8	(4)
TILLAMOOK (Navy)	520 (NFS)	BMRLZ	3105,4495
Tillamook NAS	278 (142.74)	CN, 123°, 2.5	(3); 142.74 (8-1630)
WILLAMETTE FM	(- - - -)	FM, 76°, 20.6	Portland
WASHINGTON			
BELLINGHAM	209 (I I)	SBRAZ-DT,114°,3.3	(4)
CAMANO ISL,FM (Navy)	(- -)	FM,123°, 9	Whidbey Island NAS
DUNGENESS FM	(- - - -)	FM, 296°, 62	Seattle
EASTON (Int.)	278 (TP)	MHT	(4)
ELLENSBURG AAF	385 (EB)	SBMRAZ-DT,270°,2	(4)
EVERETT (Paine)	224 (MI)	BMRLPZ-DT,330°,3.1	(4)
HOBART FM	(- -)	FM, 88°,15	Seattle
KELSO	266 (HP)	MHT	(4)
LAKEVIEW FM	(- - -)	FM, 175°,25.5	Seattle
McCHORD (Taoma) (Army)	272 (DTA)	BMRL; 26°, 1.7	
MONROE FM	(-)	FM, 5°, 30	Seattle
MOUNT VERNON OLF	3295 (126.18) (142.74)	CN	3105,4495;126.18,142.74 (days)
NEAH BAY	362 (KQ)	SRAWZ	
PORT ANGELES CGAS	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
SEATTLE (King County)	260 (SA)(116.1)	SBRAZ-VDTX, 296°, 3.3	(4);116.1
STEVENSON	347 (LZ)	MHT	(4)
TOLEDO (Int.)	239 (GL)	BMRLZ-DT,236°,3	(4)
WASHOUGAL FM	(-)	FM, 63°,17.5	Portland, Oregon
WHIDBEY ISLAND (Navy)	353 (NUW)	BMRLZ	3105
Whidbey Island NAS	278 (142.74)	CN, 303°,3.5	(3);142.74,126.18,Tr.and gds 116.1,140.48 req.(GCA
Whidbey Island NAS	2870 (142.74)	CN	(3),3155;142.74 (24 hrs advance notice)
WOODLAND FM	(- - - -)	FM, 331°,23	Portland, Oregon
YAKIMA	320 (YA)(116.1)	BMRLZ-VDT	(4); 116.1
Yakima County Arpt.	278 (118.5)	C;267°,4.7	(4);118.5,131.9,142.74

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS

OREGON

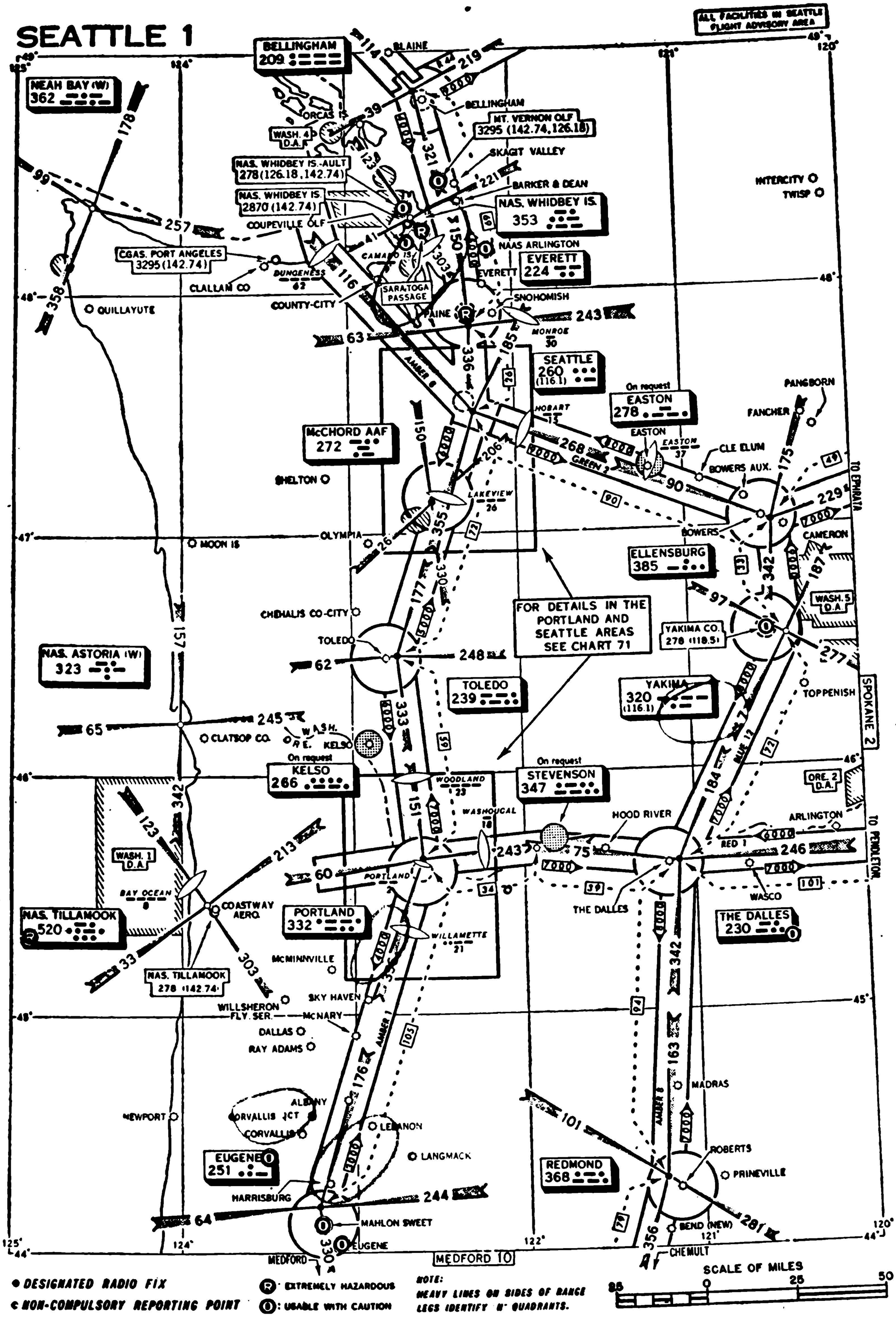
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Silverton)	1.2 NW;RR E	210	33	Brush N.
Albany	2.5 NE;RR NW	212	26 S6	73,80 oct.Poles W, SW.
★ Arlington Int,12B,PD-SM	1.4 ENE; riv NW	882	50 L3	
Bend (new)	5.5 ENE;hwy S	3429	34 S6	80 oct.Pwrline SE.Use strips.
Bend (old) (NC)	7.8 N; hwy E	3350	44	Poleline W, NW.
Clatsop Co.(Astoria)	3.5 W;riv E	10	57h	
Coastway School of Aeronautics (Tillamook)	1.4 E;hwy W	55	29 S2	80 oct.
Corvallis	4.9 SSW;RR E	245	52h S6	80,91 oct.
Corvallis Junction	1.3 NNE;RR W	240	20 S1	Ltd 73 oct.
Dallas (new)	1.2 N;RR S	400	23	Poles WSW.
Dallas (old)(NC)	1.6 E;RR S	300	23	UNUSABLE;Under cultivation.
Eugene Airpark	1.6 SW;rd W	420	28 S6	73,80 oct.
Harrisburg	2 NNE; RR E; W	300	25	
Hood River	2.5 S;riv E	605	13	Lgt acft only.
Langmack (Sweet Home)	2 E;hwy N	550	24	Poles W.
Lebanon	1.3 SW;RR E	340	20 S2	80 oct.
Madras	2 NNW;RR SE	2420	74h	
MAHLON SWEET(Eugene)	8 NW; RR NE	365	52h R1 L5 S1	91 oct, Svcg week days only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

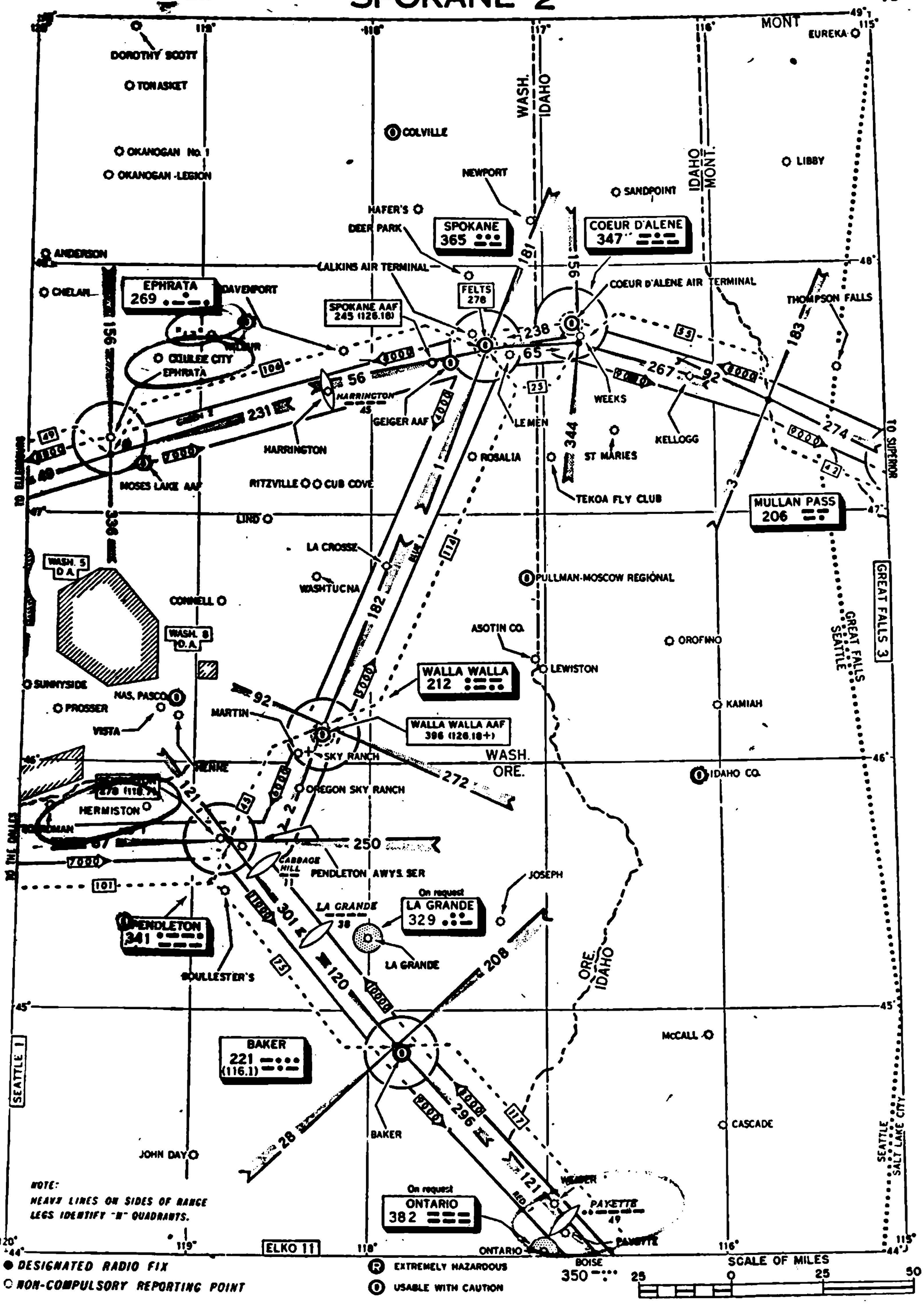
OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
McMinnville	3.1 ESE;hwy W	156	50h S1	Ltd 73,80 oct.
McNARY (Salem)	2.2 SSE;RR SW	207	55h L5 S4	80 oct.;91 oct,emerg,No sto
(P) Newport	4 S;ocean W	160	51h L5 S6	80 oct, No sto.
Prineville	2.9 SW;hwy SW	3240	37 S6	80 oct.
Ray Adams (Monmouth)	2.2 NNW;RR E	195	23 S1	80 oct.Cattle on fld.
(P) Roberts (Redmond)	1.5 SE;hwy N	3064	70h R1 S2	80 oct.
Santiam Junction Flgt Strip (Idanha) (NC)	21.5 SSE;hwys N	4000	30	Trees W,E.
Sky Haven (Brooks)	1.6 NE;RR W	180	17 S1	Ltd 80 oct.
The Dalles	1.7 NE	239	51h R1 L5 S4	80 oct,Ltd sto.
(N) Tillamook NAS (N)	3 SE; riv N	35	50h R2 L5 S4	91 oct,Used by LTA;HTA.
Vernonia (NC)	2.4 WSW;riv S	620	29	
Wasco	0.4 E;RR SW	1420	18 S1	Ltd 80 oct.
Willsheron(Sheridan)	2.1 SSW;RR NNE	275	15 S1	80 oct.
WASHINGTON				
(N) Arlington NAAS (N)	3 SW;hwy W	129	50h	INACTIVE.
Barker & Dean (Mt. Vernon)	2.2 S;RR,riv W	4	20 S4	73,80 oct.No sto.Trees NW.
BELLINGHAM	4.5 NW;hwy E	158	50h R1 L5 S4	73 oct. No sto.Fld lgts prior req.ARPT OF ENTRY
Blaine	0.5 E;RR W	15	18 S1	80 oct.
(P) Bowers (Ellensburg)	2.5 NE;hwy S	1729	59h R1 L5 S6	80 oct.
Bowers Aux.(Ellensburg)	8.6 NNW	2140	30	
Cameron (Kittitas)	0.5 N;RR S	1650	26 S2	73,80 oct.
(P) Chehalis Co.-City	0.6 NW;RR E	174	50h S6	80 oct,No sto.
Clallam County (Port Angeles)	2.9 WNW;RR NW	290	52h S2	80 oct.
Cle Elum	2.4 E;hwy S	1930	25 S4	80 oct.
County-City (Port Townsend)	5 SSW	110	33 S2	80 oct.Pole lines ESE,WNW ARPT OF ENTRY.
(N) Coupeville OLF (N)	2 SE	199	54h	
★ Easton Int,5B,SA-HL	1.7 NNW;RR SW	2221	30 R1 L2	Trees, mtns WNW.
Everett	2.7 NNE;riv N	15	21 S4	80 oct, 30 hangar W.
Fancher (Wenatchee)	2.5 NE;riv W	1440	33h L3 S6	80 oct,Fld lgts prior req.
Forks (NC)	1 SW;rd S	286	23	75 trees E.HAZARDOUS.
Goldendale (NC)	0.6 SE;RR W	1600	20	Poleline E,SE,Ditch center
Ilwaco (NC)	1.5 ENE;riv S	8	17	20 trees WNW.HAZARDOUS
Intercity,USFS (Winthrop (NC)	4 SSE;riv SW	1650	32	Mtns SE.
Kelso,61A,SF-SA	1.4 S;RR SW	25	29 R1 L3 S6	80 oct,Poles,trees NW.
Kenmore, (Bothell) (NC)	2.3 NW;rd E	420	17	12-14 brush NNE,SSW.
(P) Moon Island (Aberdeen)	6 W;harb. N,S	14	50h L5 S6	80,91 oct.
(N) Mt.Vernon OLF (N)	5 NW;RR S	146	53h R1 L1 S1	100 oct,Pole line N,CLOSED
Olympia	4.5 S;hwy E	190	50h S4	80 oct.Trees W.
Orcas Island (E.Sound)	0.7 N;hwy E	25	12	
Paine (Everett)	6.5 SW;hwy NE	598	65h R1 L5 S6	80 oct,Fld lgts prior req.
PANGBORN(Wenatchee)	5.3 ESE;hwy S	1246	46h L5	Contact lgts prior req.
Pasayten.USFS (Winthrop)(NC)	38 NW;riv E	4250	28	Use in emerg.only.
Port Angeles CGAS	2 NNE	13	45h R1 L5 S1	lgts pri- or req. 91,100 oct,No bcn.
Randle,USFS (NC)	1 ESE;riv S	940	13	Pwr line WSW,Cattle on fld.
Quillayute	0.7 NNW;8 W Forks	195	50h	
Shelton	2.5 NW;hwy ENE	278	52h	Tower NW.
Skagit Valley Air Svc. (Burlington)	0.7 S;RR E	35	20 S1	80 oct,Stack N.
Snohomish	0.9 SW;RR N	16	19 S4	80 oct,Poles,trees ESE.
Snoqualmie Pass (North Bend)(NC)	3.5 ESE;hwy S	680	24	Trees WNW,ESE.
★ Toledo Int,63B,SF-SA	3 NE;riv S	371	50h R1 L3	
Toppenish	3.2 SSW;hwy E	1080	32 S5	80 oct.
Twisp	1.9 SE;riv S	1620	19 S1	80 oct,Trees,hills WNW.
Westport (NC)	0.5 N;harbor E	5	18	
(N) Whidbey Island NAS	3 NW Oak Harbor	24	70h R2 L6 S2	91,100 oct. (N)
(N) YAKIMA COUNTY	2.8 SSW	1058	50h R2L5 S6	73,80,100 oct.Poleline S.

SEATTLE 1


ALL FACILITIES IN SEATTLE FLIGHT ADVISORY AREA
BELLINGHAM 209
BLAINE
NEAH BAY (W) 362
ORCAS
WASH. 4 D.A.F.
NAS. WHIDBEY IS.-AULT 278 (126.18, 142.74)
NAS. WHIDBEY IS. 2870 (142.74)
COUPEVILLE OLF
CGAS. PORT ANGELES 3295 (142.74)
DUNGENESS 62
CLALLAM CO
QUILLAYUTE
COUNTY-CITY
SARATOGA PASSAGE
BELLINGHAM
MT. VERNON OLF 3295 (142.74, 126.18)
SKAGIT VALLEY
BARKER & DEAN
NAS. WHIDBEY IS. 353
NAAS ARLINGTON
EVERETT 224
EVERETT
SNOHOMISH
MONROE 30
SEATTLE 260 (116.1)
AMBER 9
HOBART 15
On request
EASTON 278
EASTON
EASTON 37
CLE ELUM
BOWERS AUX.
PANGBORN
FANCHER
TO EPHRATA
CAMERON
BOWERS
ELLENSBURG 385
WASH. 5 D.A.
YAKIMA CO. 278 (118.5)
YAKIMA 320 (116.1)
TOPPENISH
SPOKANE 2
ORE. 2 D.A.
ARLINGTON
TO PENDLETON
RED 1
WASCO
THE DALLES 230
THE DALLES
HOOD RIVER
STEVENSON 347
On request
McCHORD AAF 272
SHELTON
LAKEVIEW 26
MOON IS
OLYMPIA
CHEHALIS CO-CITY
TOLEDO
TOLEDO 239
FOR DETAILS IN THE PORTLAND AND SEATTLE AREAS SEE CHART 71
NAS. ASTORIA (W) 323
CLATSOP CO
ORE. WASH.
KELSO
On request
KELSO 266
WOODLAND 23
WASHOUGAL 18
WASH. 1 D.A.
BAY OCEAN
COASTWAY AERO.
NAS. TILLAMOOK 520
NAS. TILLAMOOK 278 (142.74)
PORTLAND
PORTLAND 332
WILLAMETTE 21
McMINNVILLE
SKY HAVEN
WILLSHERON FLY. SER.
McNARY
DALLAS
RAY ADAMS
NEWPORT
ALBANY
CORVALLIS JCT
CORVALLIS
LEBANON
LANGMACK
EUGENE 251
HARRISBURG
MAHLON SWEET
EUGENE
MEDFORD
MEDFORD 10
REDMOND 368
MADRAS
ROBERTS
PRINEVILLE
BEND (NEW)
CHEMULT
INTERCITY
TWISP
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
SCALE OF MILES
0 25 50

SPOKANE 2


DOROTHY SCOTT
TONASKET
COLVILLE
OKANOGAN No. 1
OKANOGAN -LEGION
NEWPORT
HAFER'S
DEER PARK
SPOKANE 365
COEUR D'ALENE 347
SANDPOINT
EUREKA
LIBBY
MONT
IDAHO
WASH.
ANDERSON
CHELAN
EPHRATA 269
DAVENPORT
CALKINS AIR TERMINAL
FELTS 278
SPOKANE AAF 245 (126.18)
COEUR D'ALENE AIR TERMINAL
THOMPSON FALLS
COULEE CITY
EPHRATA
HARRINGTON
GEIGER AAF
LEMEN
WEEKS
KELLOGG
MOSES LAKE AAF
RITZVILLE
CUB COVE
ROSALIA
ST MARIES
TEKOA FLY CLUB
MULLAN PASS 206
LIND
LA CROSSE
WASHTUCNA
PULLMAN-MOSCOW REGIONAL
GREAT FALLS 3
GREAT FALLS SEATTLE
WASH. 5 D A
WASH. 8 D.A.
CONNELL
ASOTIN CO.
OROFINO
LEWISTON
WALLA WALLA 212
SUNNYSIDE
NAS. PASCO
PROSSER
VISTA
MARTIN
WALLA WALLA AAF 396 (126.18+)
SKY RANCH
KAMIAH
WASH.
ORE.
IDAHO CO.
OREGON SKY RANCH
HERMISTON
PENDLETON AWYS. SER
CABBAGE HILL
JOSEPH
LA GRANDE
On request
LA GRANDE 329
PENDLETON 341
BOULLESTER'S
LA GRANDE
ORE.
IDAHO
McCALL
BAKER 221 (116.1)
JOHN DAY
BAKER
CASCADE
SEATTLE SALT LAKE CITY
ONTARIO 382
On request
PAYETTE
49
ONTARIO
BOISE 350
ELKO 11
SEATTLE 1
SCALE OF MILES
25 0 25 50
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R EXTREMELY HAZARDOUS
U USABLE WITH CAUTION

RADIO

IDAHO

LOCATION	FREQ., IDENT	STA. CLASS, BEAR & DIST.	FREQS GUARDED. HRS OF OPER., REMARKS
COEUR D'ALENE (Air Terr	347 (KO)	BMRLZ-DT, 321°,5.2	(4)
PAYETTE FM	(..- - - -)	FM, 301°,49	Boise
MONTANA			
MULLAN PASS	206 (MN)	BMRLZ-DT	(4)
OREGON			
BAKER	221 (BK)(116.1)	SBRAZ-VDT;116°,2.1	(4); 116.1
CABBAGE HILL FM	(- -)	FM, 121°, 11	Pendleton
LA GRANDE	329 (IU)	MHT	(4)
ONTARIO	382 (OO)	MHT	(4)
PENDLETON	341 (PO)	SBRAZ-DT	(4)
Pendleton Field	278 (118.7)	C; 256°, 2	(4);131.9,126.18,118.7
LA GRANDE FM	(- - - -)	FM, 300°,38	Baker
WASHINGTON			
EPHRATA	269 (EP)	BMRLZ-DT; 336°, 38	(4)
FELTS (Spokane)	278	C	(4) (5-21)
HARRINGTON FM	(- - - -)	FM, 236°,45.3	Spokane
SPOKANE (Felts)	365 (SM)	SBRAZ-DT;332°,1	(4)
SPOKANE AAF	245 (126.18)	CA	(3); 126.18
WALLA WALLA	212 (WL)	SBMRLZ-DT	(4)
Walla Walla AAF	396 (126.18)(116.1)	CA;182°, 4	(4);126.18,116.1 (7-24)

S Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105.4495.6210 kcs., (4)-3105.4495.6210.3117.5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available —

AIRPORTS

IDAHO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cascade	1 E;rd N	4765	29 S2	80 oct.Pole line NW.
Cayuse Creek,USFS (NC)	40 ENE Pierce	3700	23	
Chamberlain,USFS (Dixie)(NC)	17.6 SE	5765	21	Maintained May to Nov.
Coeur D'Alene Air Terminal	6,3 NNW;RR NW	2310	54h R1 L3 S1	80 oct.
Dixie,USFS (NC)	4 SW;creek E	5200	28	Obst N,E,S.
Idaho Co.(Grangeville)	0.9 N;rd W	3295	44 S2	80 oct.20 pole line W.
Kamiah	0.6 SE;RR E	1194	28	Rough, Trees NNW.
★ Kellogg Int,29B,SA-HL	0,8 NW;riv N	2300	38 L3 S4	73 oct,10 dike W.
Landmark,USFS(Knov) (NC)	7.7 ESE	6680	15	Maintained June to Nov.
(P) Lewiston	2 S;riv NW	1120	50h	
McCall	1 S;RR W	5021	23 S4	80 oct,Trees W.
Orofino	1.3 W;riv NE	1000	24 S1	80 oct,1000 mtns WNW,
Payette	2 NE;RR W	2200	35	Road crosses fld SE. ENE
Priest River (NC)	0.9 NNW;RR S	2165	21	Trees E;hill W.
Sandpoint	1.5 NNW;RR W	2117	27 S1	73,80 oct.Pole line W.
Tekoa Flying Club (Tensed)	5 NNW;creek N	2650	16 S2	80 oct.
Weeks (Coeur d'Alene)	3 N;RR E	2237	30 S6	73 oct.Trees NE.
Weiser	2.8 S;RR NE	2120	34 S2	73 oct.
St. Maries	1.2 NW;hwy S	2132	23	
MONTANA				
Eureka	2.7 NNW;RR N	2680	20	
Libby, USFS	1 NE;riv S,E,W	2090	30	Mtns sur fld.
Thompson Falls	3,2 ESE;RR N	2460	25	Mtns E,S.
OREGON				
Baker	4.3 NNE;hwy W	3368	49h R1 L3 S6	80 oct.No sto.
Boardman Flight Strip	5.6 WSW;RR N	378	42h	

h-hard surfaced runways. R-radio facilities L-lighting facilities S-servicing. (see page 14) (NC)-Not charted.

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Boullester's Flying Svc.(Pilot Rock)	0.8 E;hwy N	1780	19 S2	73 oct.
Hug's (Elgin)(NC)	0.8 N;RR E	2670	14	
John Day	0.9 SW;riv N	3600	29	PRIVATE.
Joseph	1,2 W;RR E	4150	33 S2	73,80 oct.
La Grande	5,5 ESE;RR SW	2713	47h R1 L2 S4	73 oct.
Lexington (NC)	0.7 N;hwy E;RR SW	1650	19	
Ontario	2.5 W;hwy E	2190	45h R1 L3 S6	80 oct.
Oreg.Sky Ranch(Milton)	3.7 SSW;RR E	1300	20 S6	73,80 oct.
[redacted]	3 WNW;hwy S	1[illegible]	63h R2	
Pendleton Airways, Inc (Pendleton)	3.8 ESE;RR N	1200	37 S6	73,80 oct,Poleline E.
[redacted]	1.7 SE;riv N	635	23 S1	80 oct.
WASHINGTON				
Asotin Co.(Clarkston)	0.6 N	760	34 S6	80,91 oct.Mtn 1 mi W.
Anderson(Pateros)	1.6 SSW;RR N	1100	16	Mtns NW.
Calkins Air Terminal (Spokane)	3.8 N;hwy W	2020	53 S6	80 oct.Trees 200' W.
Chelan	4.7 NE;riv E	1250	34 S2	Fuel, Hills W,N,S.
Colville	0.8 E;hwy NW	1875	27 S1	80 oct.
Connell	1.2 SSW;RR W	870	30 L3 S1	80 oct.
Coulee City	2.2 E;RR W	1600	33 S1	80 oct.
Cub Cove(Ritzville)	3 E;hwy NW	1850	27	
Davenport	0,9 WNW;hwy S	2425	28 S1	80 oct.Obsts ENE.
(P) Deer Park	2.6 ENE	2200	61h S4	80 oct.
Dorothy Scott(Orov 1)	3 NNE;lake W	1150	40 S1	73 oct.2000' mtn S.
Ephrata	2 SE;hwy NW	1258	73h R1 S6	80 oct.
Fairweather(Republic)	0.8 S;riv E	2500	20	Trees N,S. (NC)
FELTS (Spokane)	4.9 ENE;riv N	1962	45h R2 L5 S6	73,91 oct.ARPT OF ENTRY
(N) Geiger (Spokane)(A)	6.5 SW;hwy N	2354	82h	INACTIVE.
Hafer's Ranch (Chewelah)	3.6 SSW;RR E	1700	18	
★ Harrington Int,19,SA-HL	1 NNW;hwy E	2305	32 L3	
Henne (Kennewick)	1.3 SE;RR E	385	30 S2	80, 93 oct.
La Crosse,28B,PD-SM	2.5 SW;RR NW,E	1459	37 L3	
Lemen Airpark (Opportunity)	3 SE;lake N	2040	32 S4	80 oct,No sto,Poleline NNE
Lind	1.3 NE;RR S	1478	33 L2 S5	80 oct.
Martin (College Pl.)	1.5 NW; RR N	750	24 S6	80,91 oct.No sto.Trees
(A) Moses Lake AAF (A)	6.5 NNW;RR E	1190	100h	INACTIVE. ENE.
Newport	1 W;riv NE	2150	29 S2	No fuel.Hills E,W.
Okanogan-Legion (Okanogan)	1.1 E;riv NW	1100	24 S1	80 oct.Posts NE.
Okanogan Flgt Strip (Omak)	4 N	1298	47h	
(N) Pasco NAS (N)	2.8 NNW;RR E	402	47h	INACTIVE.
Prosser	1.4 NW;riv SE	685	40 S6	80 oct.50' trees W.
Pullman-Moscow Regional (Pullman)	3.4 ENE;RR S	2549	51h S6	80 oct.
Ritzville	0.5 W;RR SW	1850	15 S1	80 oct.Pwrline,bldgs NE.
Rasalia	2.6 W	2180	26 S1	80 oct.Hill NE.
Sky Ranch(Walla Walla)	1.3 SW		32	Pwr line W,Data unverif.
(A) Spokane AAF (A)	12 WSW	2430	80h R1 L5 S6	62,73,91,100 oct,JP-1.No sto
Sullivan Lake (Metaline Falls)	4 ESE;lake S	2590	21	Road crosses fld,caution.
Sunnyside	2 SE;RR NE	730	18 S1	80 oct.
Tonasket	1.9 NNW;riv E	1250	31 S1	80 oct.Pwr line SSW.
Vista (Kennewick)	4,5 W;rivers NW	516	35h	
Wallace (Mead)(NC)	2 W;RR E	1936	26	40 trees NE.
(A) WALLA WALLA AAF	3 NE; hwy S	1186	72h R2 L5 S6	73,91,100 oct. (A)
Washtucna	1 S;RR SE,NW	1000	39 S2	Ltd 73 oct.Hill NE.
Wilbur	1.8 W;RR S	2175	29 S6	80 oct,Pole line NE.
[redacted]	3 NW;hwy SW	1956	88	

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DU BOIS (Int.)	388 (DZ)	SBRAZ-DT, 332°,1.7	(4)
MONTANA			
ALBERTON FM	(- - -)	FM, 276°,14,8	Missoula
BELT FM	(- -)	FM, 86°,21,5	Great Falls
BOZEMAN (Gallatin)	329 (BL)	SBMRAZ-DT,319°,0.8	(4)
BUTTE	233 (BT)	BMRLZ-DT,99°,16.1	(4)
CASCADE FM	(- - -)	FM,202°,19.3	Great Falls
CUT BANK	263 (GV)	SBRAZ-DT,327°,3.1	(4)
DILLON (Int.)	379 (DE)	BMRLZ-DT,167°,2	(4)
DRUMMOND (Int.)	296 (DR)	SBMRAZ-DT,185°,1.4	(4)
GREAT FALLS	317 (GT)	SBRAZ-DT	(4)
Great Falls Mun.Arpt.	278 (118.7) (126.18 on req)	AC; 17°, 1.9	(4);126.18,131.9,119.7
GREAT FALLS AAF	219 (126.18)	CA (ILS)	(3); 126.18
HELENA	371 (HL)	SBMRAZ-DT,252°,1.9	(4)
HOMESTAKE FM	(- -)	FM, 275°, 21	Butte
LIVINGSTON (Int.)	224 (LT)	SBMRAZ-DT,247°,2	(4)
McDONALD PASS FM	(- - - -)	FM, 252°, 18	Helena
MISSOULA	308 (MX)(116.1)	SBMRAZ-VDT,120°,1.5	(4); 116.1
STANFORD FM	(- - - -)	FM,270°, 29	Lewistown
SUPERIOR (Int.)	254 (SP)	BMRLZ-DT,275°,0.1	(4)
WHITEHALL (Int.)	284 (WW)	SBRAZ-DT,183°,2.3	(4)
WHITETAIL FM	(-)	FM,352°,15.6	Whitehall
WINSTON FM	(- -)	FM, 100°, 15	Helena

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
GREAT FALLS AAF, MONT.	109.9		23° Mag.	IM (.27)	MM ·····(1.13)	OM -- (4.63)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495.6210 kcs., (4)-3105,4495.6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

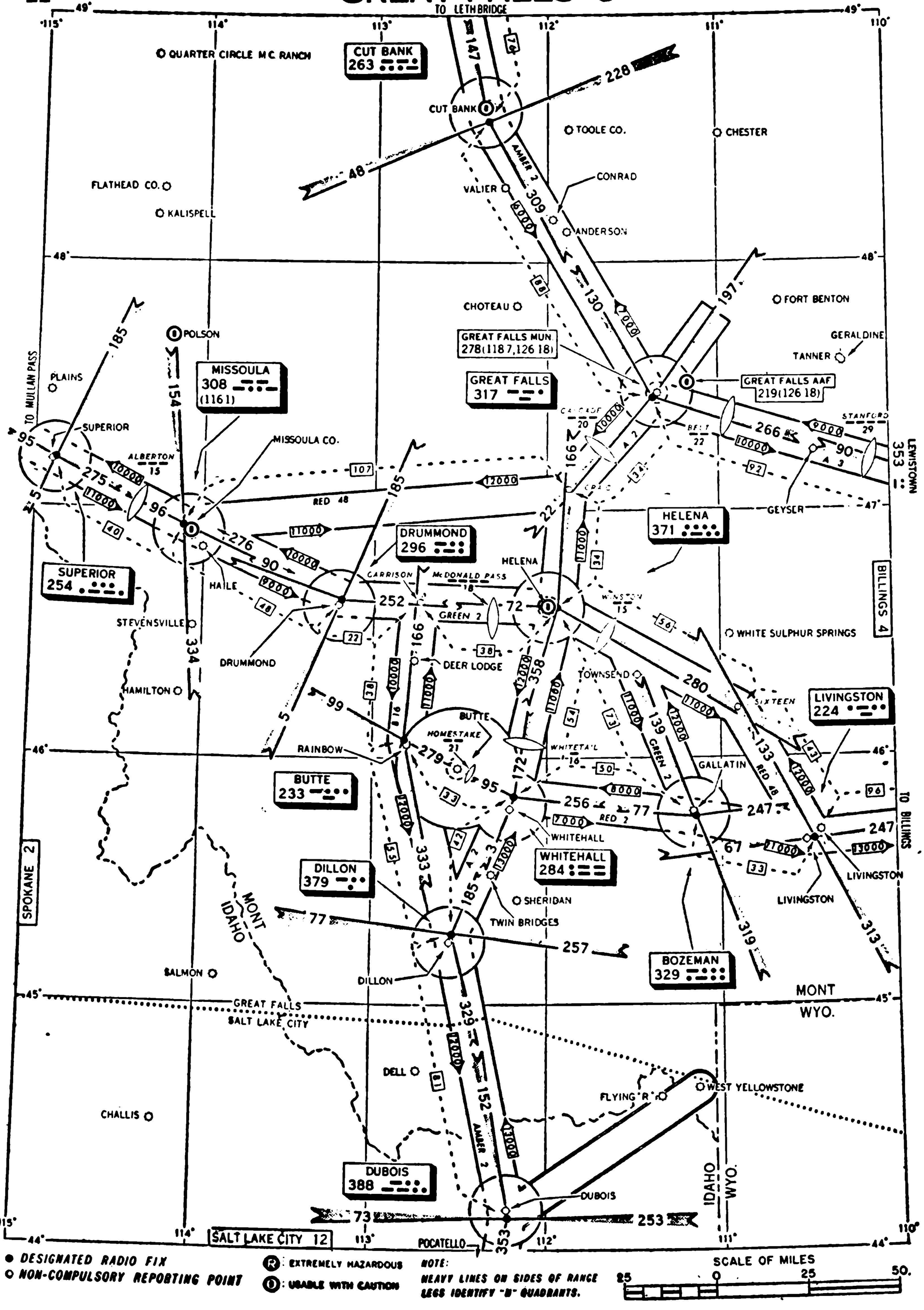
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Spring (NC)	1.1 WNW;RR SE	6350	27	Trees ENE,WSW.
Challis	1.2 NNE;hwy E	5000	34 S1	73,80 oct.
★ Dubois Int,23,SL-GT	0.8 SSE	5123	48 R1 L3	30° pole W.
Flying R (Lake)	2.8 SE;lake W	6630	34 S1	Ltd 73 oct.
Moose Creek,USFS (Red Riv,Hot Sprgs)	26.5 NNE	2200	23	Mtns sur fld. (NC)
Salmon	4 S;riv W	4045	40 S2	80 oct.Mtns NE.
MONTANA				
~~Anderson (Conrad)~~	4.8 SE;RR W	3730	16	PRIVATE.
Basin Creek (Flathead Nat l Forest)(NC)	56 NE Missoula	4900	21	Closed to public
Big Prairie (Flathead Nat l Forest)(NC)	57 NE Missoula	4650	22	Closed to public
Black Bear (Flathead Nat'l Forest)(NC)	58 SE Kalispell	4200	22	Closed to public
Bob Gordon (Cascade)	0.9 W;RR E	3480	25	(NC)
BUTTE	4 S;RR W,N	5553	56h R1 L5 S4	80,91 oct.
Chester	1.5 NW;RR S	3150	44	
Choteau	1.2 NNE;RR W	3810	39 S1	80 oct.
Condon (Flathead Nat l Forest)(NC)	48 NNE Missoula	3675	25	
Conrad	1.1 W; creek S	3530	32 S1	Ltd 73 oct.
CUT BANK	3 SW;riv l E	3899	87h R1L5 S6	80 oct. ARPT OF ENTRY.
~~Deer Lodge~~	1.5 W;RR E	4700	38 S1	80 oct.
Dell Fight Strip,28, SL-GT	1.3 NW;RR E	6008	70h L2	
★ Dillon Int,32, SL-GT	4.6 ENE;riv 2 W	5238	38 R1L3 S1	80 oct.

MONTANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Drummond Int.44B SA-HL	4 SW;hwy E	4300	36 R1 L3	
Ennis (NC)	1 NW;riv E	4985	23	
Flathead Co.(Kalispell)	7.4 NNE;RR E	2690	47h L2 S1	80 oct.All lgts prior req.
Fort Benton	1.3 NE;RR SE	2870	27	Poles NW.Soft when wet.
Gallatin (Bozeman)	8.5 NW;RR S	4461	52h R1 L5 S6	80-100 oct.
Gates Park,USFS(NC)	35 W Choteau	5400	26	Sur by mtns.Closed to public
Geraldine Mun.	0.5 S;RR NE	3200	17 S1	Ltd 73 oct.
★ Geyser Int,55,CX-GT	3 SE;RR N	4281	43 L3	
GREAT FALLS	3.5 WSW;RR E	3664	70h R2 L5 S6	80,91 oct.ARPT.OF ENTRY.
(A) Great Falls AAF(A)	4.5 E;RR N	3459	89h R3 L5 S6	73,91,100 oct.JP-1.Foreign clearing station.
Hale (Missoula)	2.3 SSW;hwy NW	3200	38 L4 S6	73 oct.All lgts prior req.
~~Hamilton~~	1.3 ENE;hwy W	3640	24 S6	80 oct.Pole line S.
HELENA	2.5 ENE;hwy W	3894	55h R1 L5 S6	73,91 oct.Stack WSW.
Holbrook (Flathead Nat'l Forest)(NC)	58 NE Missoula	4575	20	Sur by mtns.Closed to public
Hot Springs (NC)	2.2 E;hwy W	2800	27	
Kalispell	1 S;hwy E	2900	34 S4	80 oct.Poles NW.
Livingston	6 ENE;RR N,W	4656	62 S1	Ltd 73 oct.
★ " Int.10.HL-Twin Cities	2 E;RR N	4590	40 R1 L3	Poles S.
Meadow Creek (Flathead Nat l Forest)	48 SE Kalispell	4000	22	(NC)
MISSOULA COUNTY	5.3 WNW;RR N	3199	71h R1 L5 S2	73,91 oct.
Morrison(Helena)(NC)	7.6 N;RR SW	3850	33	
~~Plains~~	1.3 NNW;RR E	2500	32 S4	80 oct.No sto.30' Poles NW,NE.
~~Polson~~	1.5 W;riv E	2900	23 S4	80 oct.No sto.
Quarter Circle,M.C. Ranch (Polebridge)	4.2 NW;riv W	3600	26 S1	73 oct.Ski-equipped acft only Nov. thru April.
Rainbow Skyport (Gregson)	0.7 N;RR E,S	5030	31 S1	Ltd 73 oct.
Schaeffer (Flathead Nat l Forest)(NC)	50 ESE Kalispell	4855	24	Sur by mtns.
Seeley Lake (NC)	1.5 WNW;lake SE	4150	20	Trees NW.
Sheridan	1.5 SE;RR W	5160	27	Brush, cattle on fld.
Six Mile Landing Fld (Huson)(NC)	2 NNW;riv S	3200	24	Hill NE;make SW approach.
Spotted Bear (Flathead Nat l Forest)(NC)	39 SE Kalispell	3800	22	
~~Stevensville~~	2 ENE;riv 2 W	3620	30 S2	73 oct.
★ Superior Int,36B,SA-HL	1 S;RR SW	2700	35 R1 L2	Mtns NW;trees SE.
Tanner (Geraldine)	0.5 NW;RR NE	3200	25	
Toole Co.(Shelby)	2 NNW;RR S	3300	26 S2	Ltd 73 oct.Poles E,SE.
★ Townsend Int,3,HL-Twin Cities	2.2 ENE;riv 3 W	4000	40 L2 S1	73 oct.
Troy (NC)	1.3 NW;riv E	2017	26	Trees SSE.
Twin Bridges	1.5 SE;RR SW	4725	38	
Valier	0.6 S;lake S	3820	35	Caution when wet.
West Yellowstone	1.3 W;RR S	6700	62 S2	No fuel,Trees sur fld.
★ Whitehall Int,36A,SL-GT	6.7 SW;RR N	4602	60 R1 L3	
White Sulphur Sprgs.	4 SSW;RR E	5010	24	Livestock on fld.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (see page 14) (NC)-Not charted.

GREAT FALLS 3



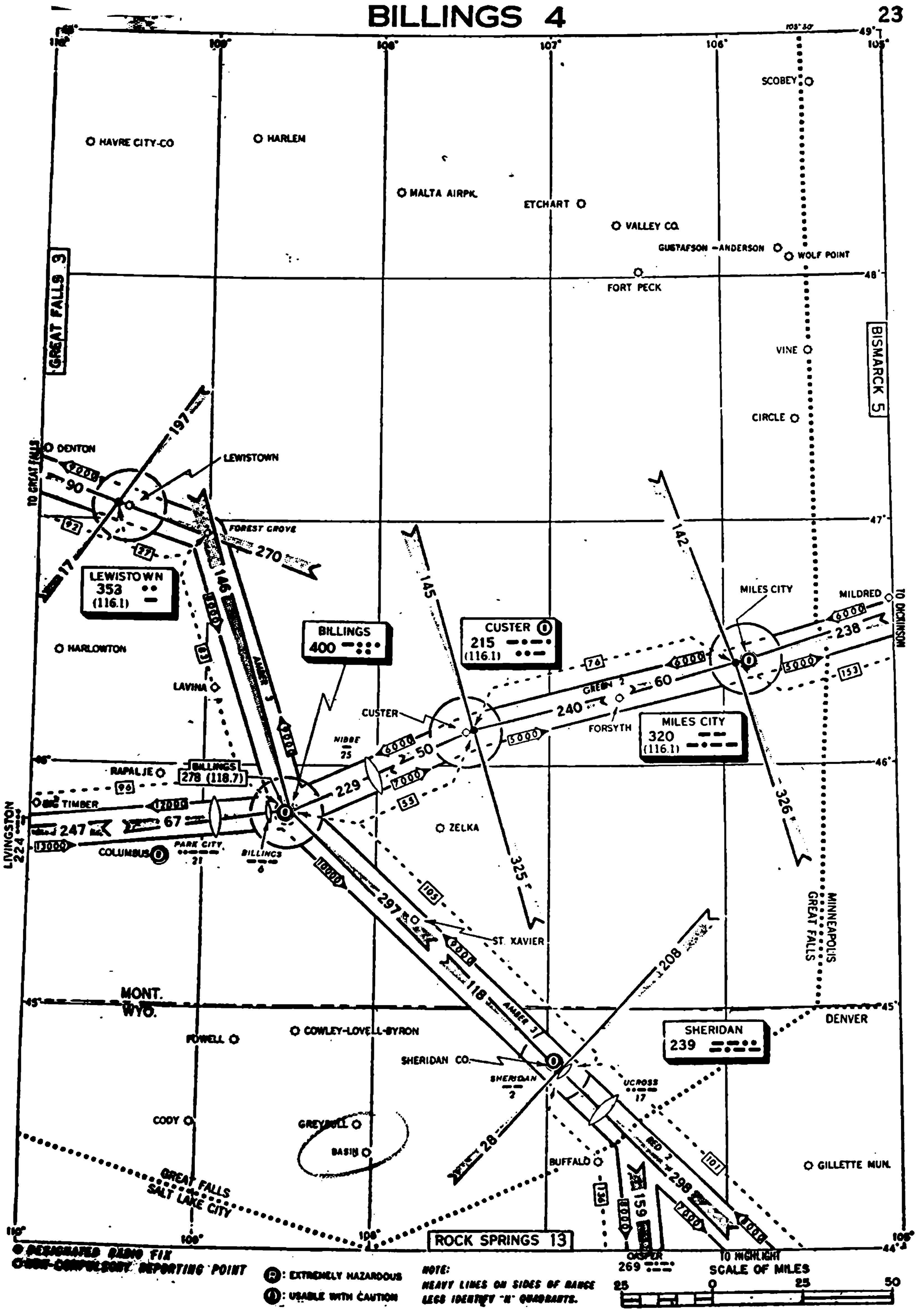
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓓ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

SCALE OF MILES
25 0 25 50.

BILLINGS 4


HAVRE CITY-CO
HARLEM
MALTA AIRPK
ETCHART
VALLEY CO
SCOBEY
GUSTAFSON
ANDERSON
WOLF POINT
FORT PECK
GREAT FALLS 3
BISMARCK 5
VINE
CIRCLE
DENTON
LEWISTOWN
FOREST GROVE
LEWISTOWN 353 (116.1)
HARLOWTON
LAVINA
BILLINGS 400
CUSTER 215 (116.1)
MILES CITY
MILDRED
TO DICKINSON
CUSTER
NIBBE
RAPALJE
BILLINGS 278 (118.7)
BIG TIMBER
LIVINGSTON
COLUMBUS
PARK CITY
BILLINGS
ZELKA
FORSYTH
MILES CITY 320 (116.1)
ST. XAVIER
MINNEAPOLIS GREAT FALLS
MONT. WYO.
POWELL
COWLEY-LOVELL-BYRON
SHERIDAN CO.
SHERIDAN
UCROSS
SHERIDAN 239
DENVER
CODY
GREYBULL
BASIN
BUFFALO
GILLETTE MUN
GREAT FALLS
SALT LAKE CITY
ROCK SPRINGS 13
CASPER 269
TO HIGHLIGHT
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
A: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "A" QUADRANTS.

RADIO — MONTANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BILLINGS	400 (BI)	SBRAZ-DTX	(4)
Billings Airport	278 (118.7)	C; 247°, 1.5	(4);118.7,126.18,131.9
BILLINGS LFM	(- - -)	LFM, 247°, 6	Billings
CUSTER (Int.)	215 (CU)(116.1)	BMRLZ-VDT,230°,2	(4); 116.1
LEWISTOWN	353 (IT)(116.1)	SBRAZ-VDT, 90°,2.9	(4); 116.1
MILES CITY	320 (MY)(116.1)	SBMRAZ-VDT,58°,2.1	(4); 116.1
NIBBE FM	(-)	FM, 49°, 25.4	Billings
PARK CITY FM	(. . - - -)	FM, 247°, 21	Billings
WYOMING			
SHERIDAN LFM	(- -)	LFM, 118°, 2.3	Sheridan
SHERIDAN	239 (ZY)	SBRAZ-DT,298°, 1.8	(4)
UCROSS FM	(. . - -)	FM, 118°, 17.4	Sheridan

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station: (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.: Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — MONTANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Horn Co.(Hardin)(NC)	2.3 ESE;riv W	3090	31	
★ Bigtimber Int.13A.HL-Twin Cities	1.5 SSW;hwy N	4450	43 L3	
[redacted]	2.5 NW;RR S	3565	57h R2 L4 S6	73,91,100 oct.
[redacted] (Birney) (NC)	2 ESE;crk W	3500	29	ROUGH
Chinook (NC)	2.8 NNE;rd W	2480	42	
Circle	1.3 E;RR N	2400	21	
Columbus	1 ESE;RR N	3575	50 S1	73 oct.Poles W.E.NW.
★ Custer Int.25.HL-Twin Cities	2.3 E;riv NE	2868	42 R1 L3	
Denton	2.2 SSW;RR N	3850	26 S4	73 oct.
Etchart (Tampico)	0.5 NNW;RR S	2100	29 S2	80 oct.Trees SE.
★ Forsyth Int,30,HL-Twin Cities	3 ENE;riv N	2722	30 L3	
Fort Peck	1.6 W;hwy S	2294	30 S1	80 oct.
Gustafson-Anderson (Wolf Point)	0.8 NW;RR S	2040	26 S6	80 oct.Pole line E.
Harlem	2.3 NNE;RR E	2560	24 S2	No fuel
Harlowton	2 WNW;riv S	4400	29 S2	73 oct.
Havre City-County	4 WSW;lake E	2589	48h S4	80 oct.ARPT OF ENTRY.
Ingomar (NC)	0.8 WSW;RR N	2950	24	
Jordan (NC)	1.8 WNW;rd S,W	2637	40	
Lavina Int,44B,CX-GT	1 WNW;RR S	3496	39 L3	
LEWISTOWN	2.5 SW;RR NW	4177	100h R1 L5 S4	80 oct.
Malta Airpark	0.8 SW;R R N	2270	31 S1	80 oct.Shrubs NW.
★ Mildred Int,38,HL-Twin Cities	3.4 WSW;rd E	2535	37 L2	
(P) MILES CITY	2.5 NW;hwy NE	2626	56h R1 L5 S6	73,91 oct.
Poplar (NC)	0.8 N;RR S	1970	33	
Rapelje	1 SE;RR N	4030	38	
Red Lodge (NC)	0.5 WNW;rd N	5600	29	ROUGH
Roundup (NC)	1.9 N;hwy W.S	3500	37	
★ St.Xavier Int,35,CX-GT	7.3 SSW;riv W	3170	40 L3	
Scobey	1 NW;RR S	2458	36 S1	80 oct.
Valley County (Glasgow)	1.8 NNE;RR S	2298	81h S4	No fuel.
Vine (Vida)	8 S;hwy W	2350	27 S1	80 oct.
Wolf Point	3 E;riv S	1980	35 S2	80,91 oct.
[redacted]	2 W;hwy N	3002	18	
WYOMING				
Basin	2.5 NE;riv E	3775	34	Hills adj E.
Buffalo, 27, CX-GT	2.6 NNW;hwy E	4900	40 L3	
Cody	2 ESE;riv N	5084	47 S6	73,91 oct.Hill E;pole line S.
Cowley-Lovell-Bryon	2 NNE;rd NW	4050	32	
(P) Gillette	5.2 NNW;hwy E	4380	36 S2	73,80 oct.
(P) Grey Bull	2 NW;hwy S	3900	44 S2	73 oct.
(P) Powell	8 NNW	5054	42 S2	73 oct.
(P) SHERIDAN CO.(Sheridan)	2 SSW;hwy E	3961	60h R1 L5 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

BISMARCK 5

RADIO

NORTH DAKOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISMARCK	230 (RK)(116.1)	SBRAZ-VDT, 260°,2.3	(4); 116.1
DICKINSON (Mun.)	308 (DC)(116.1)	SBMRAZ-VDT,167°,2.1	(4); 116.1
DRISCOLL FM	(-›)	FM, 73°, 30	Bismarck
GOLVA (Int.)	266 (GA)	MHT	(4)
JUDSON FM	(- - -)	FM, 260°, 27	Bismarck
MINOT (Port O'Minot)	209 (UI)	BMRLZ-DT,301°, 3.4	(4)
SOUTH DAKOTA			
PHILIP	206 (IL)	MHT	(4)
PIERRE	347 (PX)	SBRAZ-DT,249°,3.5	(4)
RAPID CITY	221 (RZ)	SBRAZ-DT	(4)
Rapid City AAB	396 (126.18)	CA; 345°, 5.5	(4); 126.18
SPEARFISH (Black Hills Airport)	335 (SE)	HT	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

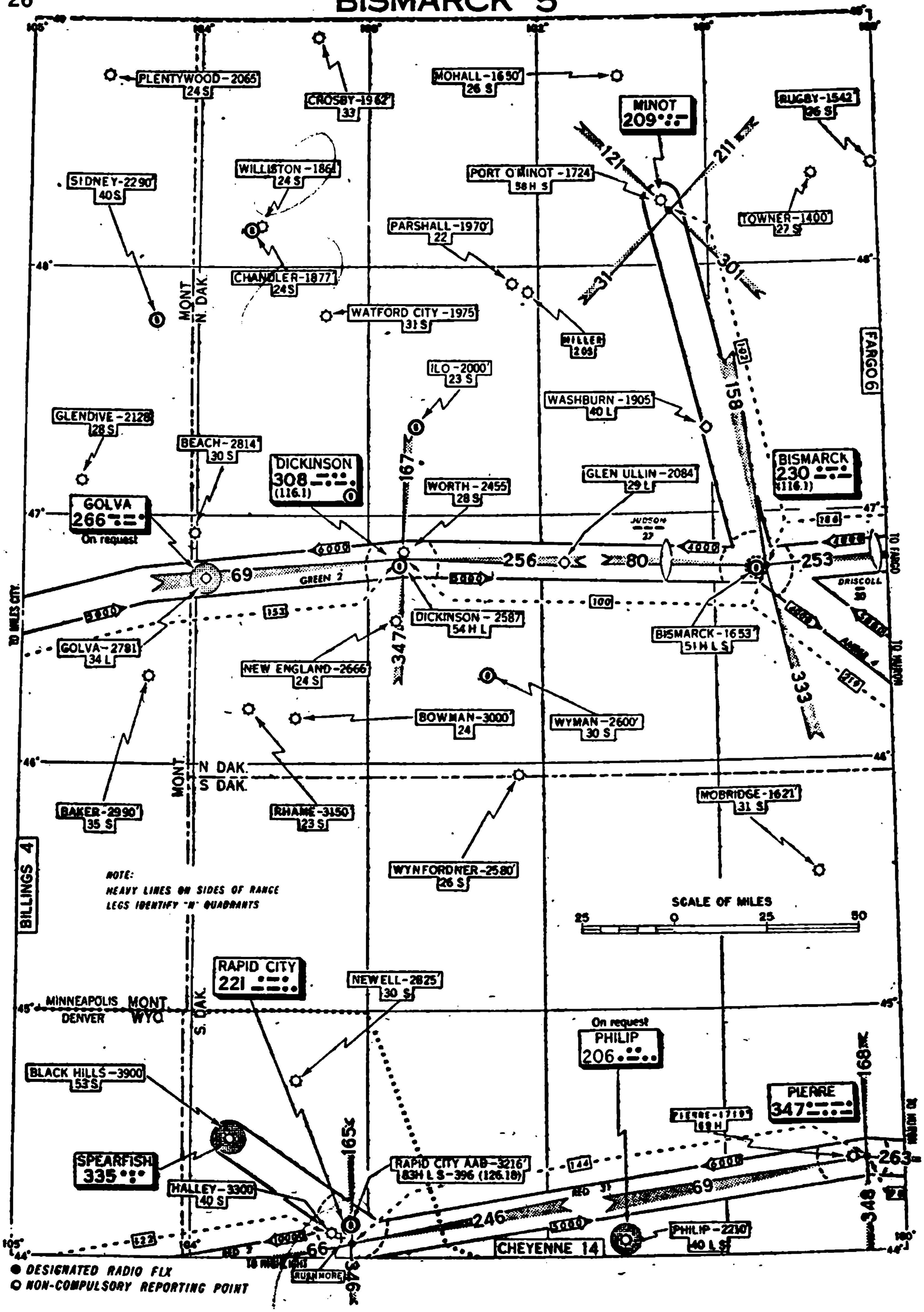
AIRPORTS

MONTANA

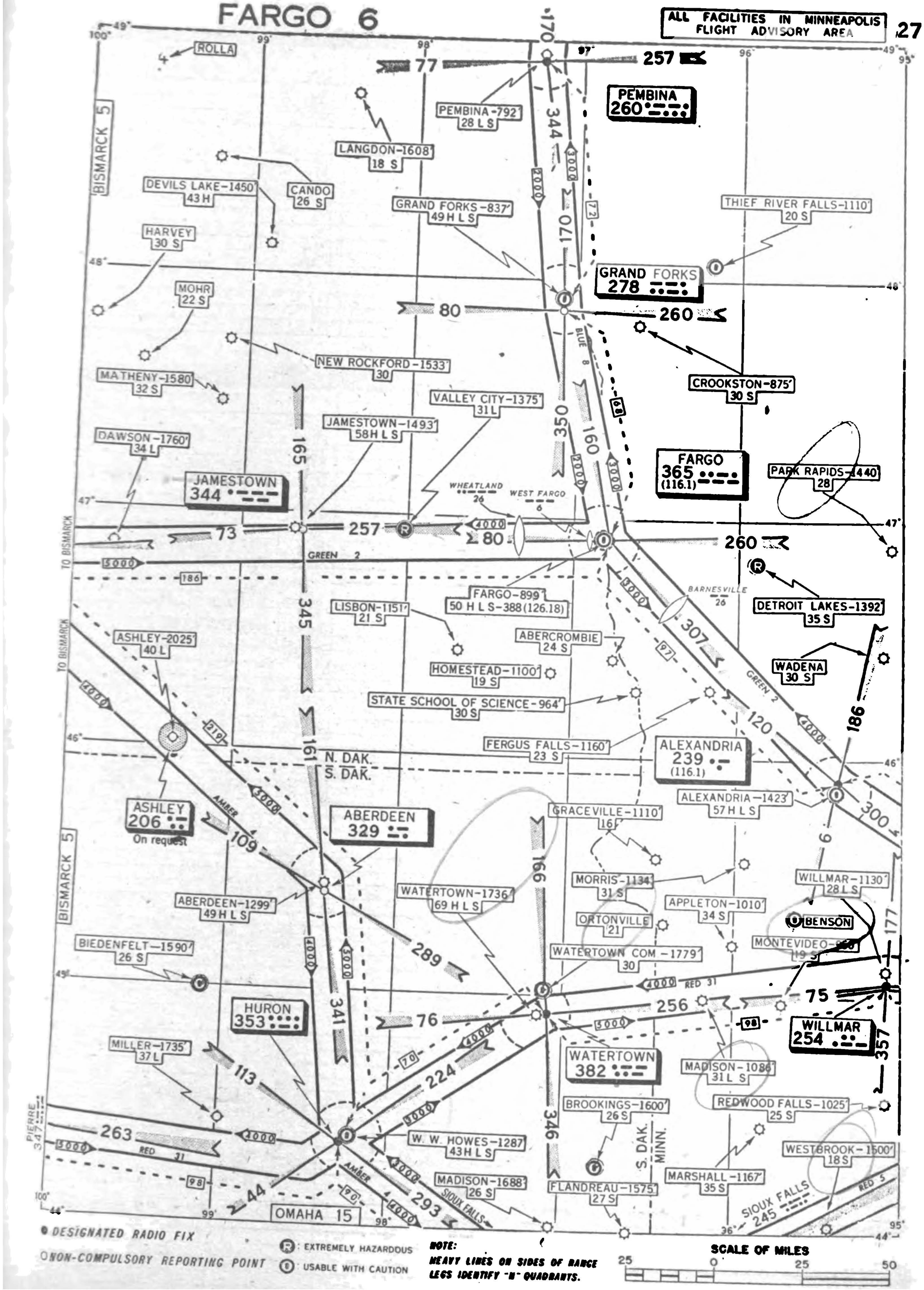
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
[redacted]	0.8 SSE;hwy N	2290	35 S2	80 oct.Poles NW,W.
Glendive	2.5 NE;RR S	2128	28 S6	80 oct. Poles S.
Plentywood	0.5 S;RR NE	2065	24 S4	80 oct.
Sidney	6.6 NW;hwy W	2290	40 S2	80 oct.
NORTH DAKOTA				
Beach	0.8 NNW;RR W	2814	30 S1	73 oct.
BISMARCK	2.4 SSE;RR ENE	1653	51h R1 L5 S4	73,80,91 oct. No sto.
Bowman	1.5 W;RR N	3000	24	
Chandler (Williston)	3 W;RR SE	1877	24 S6	80 oct.
Crosby	1 N;RR SW	1962	33	
Dickinson Mun.	5.8 S;hwy E	2587	54h R1 L3	
★ Glen Ullin Int, 53, HL-Twin Cities	1.5 WSW;RR N	2084	29 L3	Poles NE,trees E,SE.
★ Golva Int. 43. HL-Twin Cities	1.5 E;hwy W	2781	34 R1 L3	
Ilo (Killdeer)	1.5 SE;hwy N		23 S2	73 oct,Data not verified.
Miller (Parshall)	5 SE;RR N	1950	20 S1	80 oct,Pole line N.
Mohall	0.8 WNW;RR E	1650	26 S2	73 oct. Pole lines S.
New England	2.4 NE;hwy W	2666	24 S2	73,80 oct. Pole line W.
Parshall	1 S;RR N	1970	22	
(P) Port O'Minot (Minot)	1.6 NNE;hwy W	1724	58h R1 L5 S4	80,91 oct.No bcn. Ctc lgts prior req. Pwrline SW.
Rhame	1.5 SW;RR NE	3150	23 S1	73 oct.Pole line S.
Rugby	2 NNW;RR SW	1542	26 S6	80 oct.
Towner	1.5 NE;RR S	1400	27 S1	80 oct.Pole line N, NW.
★ Washburn Int, 4, RK-UI	5.1 N;hwy W	1905	40 L3	Pole line W.
Watford City	1.2 ENE;hwy S	1975	31 S1	73 oct.
Williston	1.1 NNW;hwy E	1861	24 S6	80,91 oct.Obsts N,E,S.
Worth (Dickinson)	1.8 SW;riv NW	2455	28 S6	73 oct.Hangar NW.
Wyman (Mott)	1 S;dam N		30 S1	80 oct. Data not verified.
SOUTH DAKOTA				
Belle Fourche (NC)	8.4 NW;hwy N	3140	50	
BLACK HILLS (Spearfish)	4.5 E;hwy S	3900	53 R1 S6	73, 91 oct.
Halley (Rapid City)	1.5 NNE;riv SE	3300	40 S6	73 oct.
Mobridge	1.2 NW;RR SW	1621	31 S4	80 oct. Pole line E, NE.
(P) Newell	0.2 N	2825	30 S2	73 oct,Pole line SE,W,N,NW
Philip, 31, CX-HR	3.6 E;RR S	2210	40 R1 L3 S6	80 oct,No sto.Pole line N.
PIERRE	3.5 NE;riv SE	1719	69h R1	
(A) Rapid City AAB (A)	8 NE; RR S	3216	83h R2 L5 S4	73,91,100 oct. JP-1.
Rushmore (Rapid City)	3.5 E	3100	31 S6	73,91 oct. Data not verified.
Wynfordner (Lemmon)	1.3 NE;RR S	2580	26 S1	80 oct. Pole line NW.
[redacted]	1.5 S	1715	26	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

BISMARCK 5


PLENTYWOOD - 2065
24 S
CROSBY - 1962
33
MOHALL - 1650
26 S
MINOT
209
RUGBY - 1542
26 S
SIDNEY - 2290
40 S
WILLISTON - 1864
24 S
PORT O'MINOT - 1724
58 H S
TOWNER - 1400
27 S
PARSHALL - 1970
22
CHANDLER - 1877
24 S
WATFORD CITY - 1975
31 S
MILLER
20 S
ILO - 2000
23 S
WASHBURN - 1905
40 L
GLENDIVE - 2128
28 S
BEACH - 2814
30 S
DICKINSON
308
(116.1)
WORTH - 2455
28 S
GLEN ULLIN - 2084
29 L
BISMARCK
230
(116.1)
GOLVA
266
On request
HUDSON
27
DRISCOLL
DICKINSON - 2587
54 H L
BISMARCK - 1653
51 H L S
GOLVA - 2781
34 L
NEW ENGLAND - 2666
24 S
BOWMAN - 3000
24
WYMAN - 2600
30 S
BAKER - 2990
35 S
RHAME - 3150
23 S
MOBRIDGE - 1621
31 S
WYNFORDNER - 2580
26 S
SCALE OF MILES
RAPID CITY
221
NEWELL - 2825
30 S
PHILIP
206
On request
BLACK HILLS - 3900
53 S
PIERRE
347
PIERRE - 1719
69 H
SPEARFISH
335
HALLEY - 3300
40 S
RAPID CITY AAB - 3216
83 H L S - 396 (126.18)
PHILIP - 2210
40 L S
CHEYENNE 14
RUSHMORE
MINNEAPOLIS
DENVER
MONT
WYO
N DAK.
S DAK.
S OAK.
BILLINGS 4
TO MILES CITY
TO FARGO 6
TO HURON
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "H" QUADRANTS
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

FARGO 6


ALL FACILITIES IN MINNEAPOLIS FLIGHT ADVISORY AREA
ROLLA
BISMARCK 5
DEVILS LAKE-1450 43 H
CANDO 26 S
HARVEY 30 S
MOHR 22 S
MATHENY-1580 32 S
NEW ROCKFORD-1533 30
LANGDON-1608 18 S
PEMBINA-792 28 L S
PEMBINA 260
GRAND FORKS-837 49 H L S
THIEF RIVER FALLS-1110 20 S
GRAND FORKS 278
CROOKSTON-875 30 S
VALLEY CITY-1375 31 L
JAMESTOWN-1493 58 H L S
DAWSON-1760 34 L
JAMESTOWN 344
FARGO 365 (116.1)
PARK RAPIDS-1440 28
WHEATLAND 26
WEST FARGO 6
TO BISMARCK
FARGO-899 50 H L S-388 (126.18)
DETROIT LAKES-1392 35 S
BARNESVILLE 26
LISBON-1151 21 S
ABERCROMBIE 24 S
ASHLEY-2025 40 L
HOMESTEAD-1100 19 S
WADENA 30 S
STATE SCHOOL OF SCIENCE-964 30 S
FERGUS FALLS-1160 23 S
ALEXANDRIA 239 (116.1)
N. DAK.
S. DAK.
ASHLEY 206 On request
ABERDEEN 329
ALEXANDRIA-1423 57 H L S
GRACEVILLE-1110 16
ABERDEEN-1299 49 H L S
WATERTOWN-1736 69 H L S
MORRIS-1134 31 S
APPLETON-1010 34 S
WILLMAR-1130 28 L S
ORTONVILLE 21
BENSON
BIEDENFELT-1590 26 S
WATERTOWN COM-1779 30
HURON 353
MILLER-1735 37 L
WILLMAR 254
WATERTOWN 382
MADISON-1086 31 L S
BROOKINGS-1600 26 S
REDWOOD FALLS-1025 25 S
W. W. HOWES-1287 43 H L S
WESTBROOK-1500 18 S
MADISON-1688 26 S
FLANDREAU-1575 27 S
MARSHALL-1167 35 S
SIOUX FALLS 245
OMAHA 15
PIERRE 347
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
SCALE OF MILES
25 0 25 50

FARGO 6

RADIO — MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	239 (AE)(116.1)	BMLZ-VDT, 186°, 2	(4); 116.1
BARNESVILLE FM	(- -)	FM, 127°, 26	Fargo, N. D.
WILLMAR	254 (IW)	SBMRAZ-DT, 357°, 3.5	(4)
NORTH DAKOTA			
ASHLEY (Int.)	206 (AI)	MHT	(4)
FARGO	365 (FO)(116.1)	SBRAZ-VDT,	(4); 116.1
Fargo-Hector Airport	388 (126.18)	C, 260°, 1.2	(4); 126.18
GRAND FORKS	278 (GF)	BMLZ-DT, 350°, 3.4	(4)
JAMESTOWN	344 (JM)	SBMRAZ-DT, 253°, 1.5	(4)
PEMBINA (Int.)	260 (PB)	SBMRAZ-DT, 350°, 1.6	(4)
WEST FARGO LFM	(- - -)	LFM, 260°, 5.5	Fargo
WHEATLAND FM	(. . - - -)	FM, 260°, 25.5	Fargo
SOUTH DAKOTA			
ABERDEEN	329 (AN)	SBRAZ-DT, 341°, 2.5	(4)
HURON (W.W. Howes)	353 (HR)	BMRLZ-DT, 44°, 2.7	(4)
WATERTOWN	382 (WU)	BMRLZ-DT, 256°, 2.9	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MINNESOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Alexandria	1.5 SSW; lake NW	1423	57h R1 L5 S4	80, 91 oct.
Appleton	1.9 NNE; riv S	1010	34 S2	80 oct. Pole line S,SE,SW.
Benson	2.4 NW	1031	22	Pole line NW.
Crookston	3 NNW; RR N	875	30 S2	80 oct. Obst sur fld.
Detroit Lakes	2.7 W; RR N	1392	35 S2	80 oct. Rnwy data not verified.
Fergus Falls	4.3 W; RR N	1160	23 S1	80 oct. Pole line W.
Graceville	0.8 WNW; RR S	1110	16	Pole line S.
Madison	1 S; hwy W	1086	31 L3 S6	80 oct.
Marshall	1.5 W; RR NE	1167	35 S4	80 oct.
Montevideo	2.2 NNE; RR W	950	19 S1	80 oct. Pole line W, NW.
Morris	2.7 WSW; RR N	1134	31 S2	80 oct. Trees, pole line NW.
Ortonville	1 ESE; hwys S, W	1090	21	
Park Rapids	1.7 SSW; RR E	1440	28	Pole line E.
Redwood Falls	1.8 NE; riv NE	1025	25 S2	80 oct. Pole line SE, SW.
Thief River Falls	3.6 S; riv W	1110	20 S1	80 oct.
Wadena	1 E; RR NW	1300	30 S1	80 oct. Pole line S, NW.
Westbrook	1 SE; hwy N	1500	18 S1	80 oct. Pole line W.
Willmar, 16, HR-MP	1.5 W; RR E	1130	28 R1 L3 S6	80 oct.
NORTH DAKOTA				
Abercrombie	1.7 SSW; riv E	949	24 S1	80 oct. Pole line E.
* Ashley Int, 40, OH-RK	1 SE; hwy N	2025	40 R1 L3	
Cando	1.1 SW; RR E	1490	26 S1	80 oct.
Dawson Int, 63, HL-Twin Cities	1 SW; RR N	1760	34 L2	
(P) Devils Lake	2.5 W; hwy S	1450	43h	Pole line W.
FARGO-HECTOR (Fargo)	2.9 NNW; RR SW	899	50h R2 L5 S6	73-100 oct.
GRAND FORKS	2.6 WNW; RR S,E	837	49h R1 L5 S6	73,80,91 oct. ARPT OF ENTRY.
Harvey	1.9 N; RR SW	1605	30 S1	80 oct.
Homestead (Wyndmere)	6.2 N; hwy W	1100	19 S1	Ltd 73 oct. Trees E, SW.
(P) Jamestown	1.5 NE; hwy S	1493	58h R1 L3 S6	80 oct.
Langdon	1 W	1608	18 S1	80 oct.
Lisbon	0.8 SSW; RR SE	1151	21 S1	73 oct. Pole lines N, S.
Matheny (Carrington)	1.3 W; RR, hwy N	1580	32 S1	80 oct. Poles NE, NW.
Mohr (Fessenden)	1.5 SW; RR NE	1620	22 S1	80 oct.
New Rockford	1.5 N	1533	30	
★ Pembina Int, 14, FO-WG	1 S; RR W	792	28 R1 L3 S4	80 oct. No ngt. svcg. ARPT. OF ENTRY.
Rolla	0.7 N; lake S		21 S2	80 oct. Data not verified.
St.School of Science (Wahpeton)	0.8 N; RR W	964	30 S6	80 oct. Pole line N; pwr line E.
(P) Valley City, 71, HL-Twin Cities	1.5 NW; riv NE	1375	31 L3	
SOUTH DAKOTA				
Aberdeen	2.9 E; RR N	1299	49h R1 L5 S6	73,80,91 oct.
Biedenfelt (Faulkton)	2 S; rd, RR E	1590	26 S1	73 oct. Poles E.
Brookings	2.5 SSE; hwy W	1600	26 S4	80 oct.
Eureka	6 N; rd W	1895	28	Poles W.
Flandreau	3 S; hwy N, E	1575	27 S1	80 oct. Poles sur fld.
Madison	3.7 ENE; hwy S	1688	26 S2	80 oct. Trees W; pole NW.
Miller, Int, 44, CX-HR	5.6 S; hwy E	1735	37 L2	
Redfield (NC)	1 SSW; RR NE	1300	25	Pole line E.
WATERTOWN	2 NW; RR NE	1736	69h R1 L5 S1	80, 91 oct.
" Watertown Commercial	8.3 N; hwy E	1779	30	Poles E, SE.
(P) W.W. HOWES (Huron)	1.3 NNW	1287	43h R1 L3 S6	73, 80,91 oct.
→ Hofer-Kannegieter (Willow Lake)	1.5 E	1787	22 S2	73 oct. Pole line N. Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DULUTH (Williamson-Johnson)	221 (DH)	SBRAZ-DT, 13°, 4	(4)
HAMEL FM	(- - - -)	FM, 298°, 24	Minneapolis
HASTINGS FM	(- -)	FM, 118°, 10.2	Minneapolis
JORDAN FM	(- - -)	FM, 238°, 26	Minneapolis
LAKE CITY	206 (FE)(116.1)	MHVT	(4); 116.1
MINNEAPOLIS (Wold Chamberlain Field)	266 (MP)	SBRAZ-DT, 298°, 3.5	(4)
WOLD CHAMBERLAIN, (Minneapolis)	278 (126.18)(142.74)	AC	(4); 116.1, 126.18, 142.74

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs. (4)-3105.4495.6210.3117.5 kcs

Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — MICHIGAN

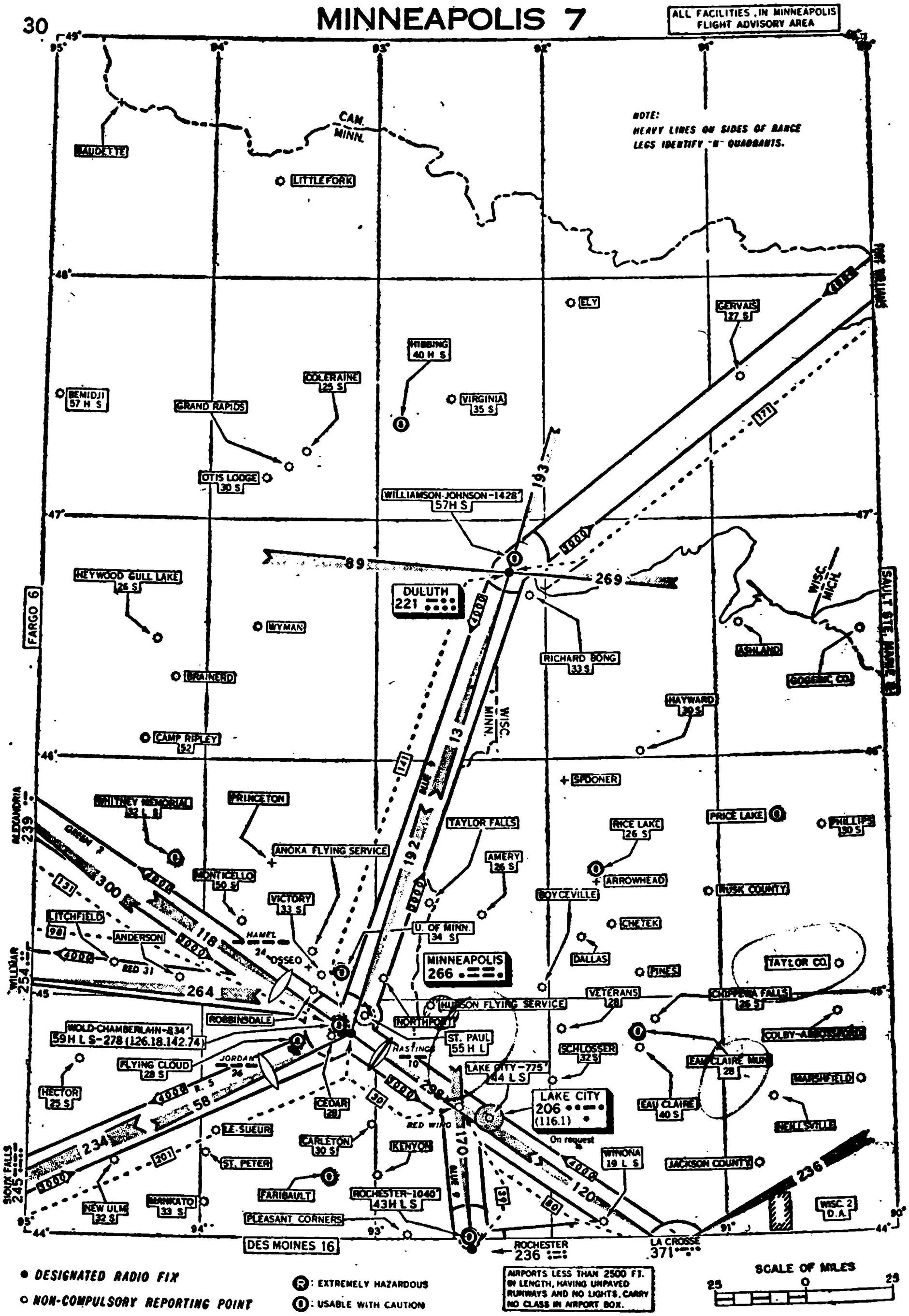
CITY - AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
Gogebic Co. (Ironwood)	4.5 NNE; RR S	1506	24 S4	80 oct. Soft when wet.
		MINNESOTA		
Anderson (Ookata)	2.6 ENE;RR S	1020	23 S2	80 oct. Poles S; trees W.
Anoka Flying Service	1.2 SE; riv SW	896	19 S1	80 oct. Poles NE; (29' twr SE.
Baudette	1 N; river NE		27 S2	80 oct. Data not verified.
Bemidji	2.5 NNW; RR S	1395	57h S4	80, 91 oct. Rnwy data not verified.
Brainerd	1.5 SSE; hwy W	1210	22 S2	Ltd. 73 oct.
(A) Camp Ripley (Little Falls)(A)	7.5 N; riv E	1150	52	Tank SE corner.
(P) Carleton (Stanton)	0.7 NE; RR W	870	30 S6	80 oct. Pole lines surround fld.
Cedar (Minneapolis)	8.5 S; RR W	811	28	
Coleraine	6.9 SSE	1390	25 S1	80 oct.
Ely	1.2 E	1425	24 S2	Pole line W; trees surround fld.
Faribault	1.6 S; hwy W	1060	20 S1	80 oct. Pwr line W.
Fleming (South St. Paul) (NC)	1.8 S; riv E	822	27	
Flying Cloud (Minneapolis)	13.8 SW; riv S	900	28 S1	80 oct. Poles SE, SW.
Gervais (Toft)	1.2 NE; hwy S	800	27 S2	80 oct.
Grand Rapids	1.5 SSE; lake NE	1293	22 S2	80 oct.
Hector	0.7 S; RR N	1100	25 S1	80 oct. Pole line W, NW, SW.
Heywood Gull Lake (Missiva)	1.7 SSW; lake S	1200	26 S1	80 oct. Trees, poles surround fld.
(R) Hibbing	4.5 SE; lake NNW	1367	40h S6	80 oct.
[redacted]	1.5 SE; riv E	704	55h L4	
Kenyon	0.8 S; RR E	1249	20 S1	80 oct. Pole line N, NE.
Lake City (Frontenac)]	0.5 SE; RR N	775	44 R1 L3 S6	80 oct.
Le Sueur	1.1 S; riv W	900	20 S1	80 oct. Pole line SSW. Rolling.
Litchfield	1.2 NE; RR S	1140	24 S1	Ltd 80 oct. Trees W.
Littleford	1.8 WNW; riv E	1153	19 S1	80 oct. Pole line S.
Mankato	1.7 SE; hwy W	996	33 L1 S6	80 oct. Pwr line E, NE.
Monticello	1.3 NNE; road S	940	50 S6	80 oct.
New Ulm	1.8 W; RR, hwy N	1000	32 S1	80 oct. Pole line N.
Northport (White Bear Lake)	3.2 E; hwy N	1000	23 S6	80 oct.
Osseo	2 NE	875	30	Data not verified.
(P) Otis Lodge (Grand Rapids)	7.5 SW; lake S	1293	30 S1	80 oct. Pole line E.
Pleasant Corner (Dodge Center)	2 ESE; RR N, W	1050	16 S1	80 oct. Poles S, SE; trees SW.
Princeton	1 W; RR E		20 S1	80 oct. Data not verified.
Robbinsdale	0.8 NW; RR E	879	17 S6	80 oct.
ROCHESTER	1.7 SSE; RR W	1040	43h R1 L4 S6	80, 91 oct. Pole line E, N.
St. Peter	2.4 NNW; riv E	900	23	Pole line S.
Sells Flying Field (Mayer) (NC)	0.4 SSE	750	12	
Taylor Falls	1.5 W; RR S	950	23 S4	80 oct. No sto.
University of Minnesota (New Brighton)	3.8 N; hwy W	909	34 S6	80 oct. Trees E.
Victory (Minneapolis)	9 N; riv E	860	33 S6	80 oct.
Virginia	2 WSW; bet RRs	1429	35 S2	73 oct. Poles N
Waseca (NC)	0.5 S; RR NW	1150	39	Pole line N, W, E.
(P) Whitney Memorial (St. Cloud)	1.5 NNW; riv NW	1034	32 L3 S6	80 oct.
WILLIAMSON-JOHNSON (Duluth)	6.5 NNW; hwy S	1428	57h R1 L1 S6	80, 91 oct. ARPT OF ENTRY.
Winona	4.5 WNW; bet RRs	670	19 L3 S1	80 oct.
(A,N) WOLD CHAMBERLAIN (Minneapolis)	6.5 SSE; hwy S	834	59h R2 L4 S6	87-105 oct. JP-1. Rdo rec required.
[redacted]	1.3 N; riv S	1200	8	Poles W.
Ely	1.5 W	1337	110 S2	80 oct. Ramps;dock.
Moberg (Bemidji)(NC)	1 NNE	1350	S2	80 oct.

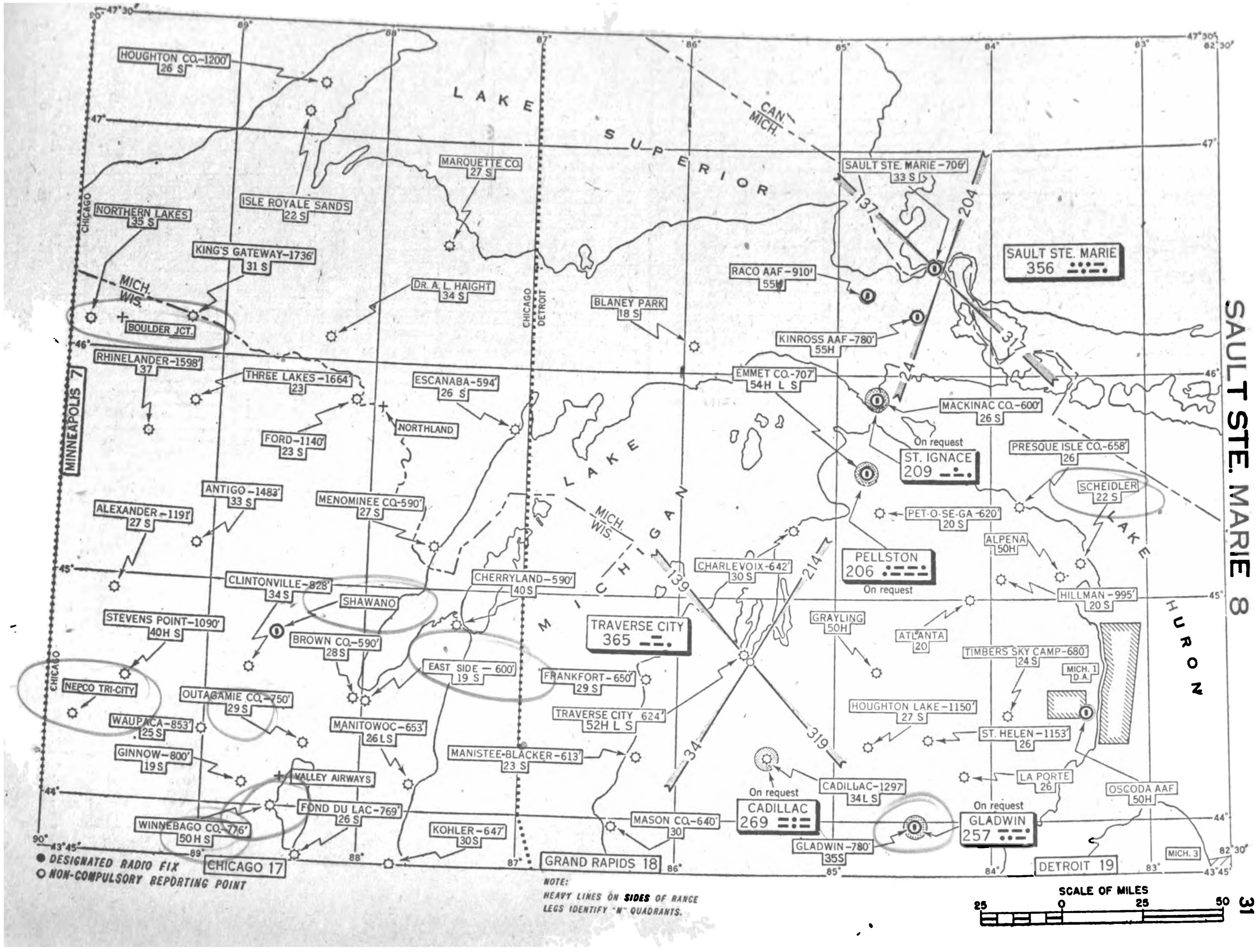
WISCONSIN

Amery	3.4 NNW; hwy N	1100	26 S1	80 oct. Pole line SE.
Arrowhead (Rice Lake)	1.3 SE; lake SE	1147	24 S4	80 oct. Trees SE. Data not verified.
Ashland	2.5 SSE; RR E	700	22 S3	80 oct. Hi-lines NE, SW.
Boyceville	0.5 SSW; hwy W	948	24 S2	80 oct. Obsts surround fld.
Boyd's Mason Lake (Pifield) (NC)	13 WSW; lake NW	1200	26	
Chetek	1.5 SE; RR S	1050	22 S1	80 oct. Trees N, SE, NW; pole S.
Chippewa Falls	2 S; RR NW	910	26 S2	80 oct. Pole line W, NW.
Colby-Abbotsford (Colby)	1.2 NNW; RR E	1400	19 S1	80 oct.
Dallas	0.7 SSE; RR W	1100	22 S1	80 oct. Pole line S.
Eau Claire	1.5 SSE; riv NW	884	40 S6	80 oct. Obsts surround fld.
(P) Eau Claire Municipal	3.5 NNE; riv NW	885	28	
(P) Hayward	2 NE; RR NW	1200	30 S1	80 oct.
Hudson Flying Service	3.8 E; hwy N, W	850	15	Pwr line N, W.
Jackson County (Black River Falls)	2 E; RR W	855	25 S1	80 oct.
Marshfield	2.3 SSW; hwy W	1253	20 S2	80 oct.
Neillsville	5.7 W; hwy SW	1000	21 S1	80 oct. Trees around fld.
Phillips	1.2 N; riv S	1140	30 S2	80,91 oct. Pole line W, S.
Pines (Bloomer)	0.9 E; RR W	1050	16 S1	80 oct. Poles S, W.
Price Lake (Phillips)	12.5 WNW	1140	22 S1	80 oct. Data not verified.
Rice Lake	3.5 NNE; RR W	1150	26 S1	80 oct. Poles surround fld.
Richard Bong (Superior)	2.3 SW; RR E	674	33 S4	80 oct. Pole line SE. 353' twr NW.
Rusk County (Ladysmith)	2.8 SE; RR SW	1150	11 S1	80 oct.
Schlosser (Durand)	2.4 NNW; riv W	800	32 S1	80 oct.
Spooner	5 N	1072	20 S1	80 oct. Data not verified.
Veterans (Menomonie)	0.4 W; riv W	900	28	
Taylor County (Medford)	2 SE	400	19 S2	80 oct. Pole line N; bldg W, NE.
Ranier (Marcel) (NC)	0.5 E	1300	30	Trees around lake.
Scenic Airways(Little Falls) (NC)	0.5 N	1110	35 S1	80 oct. Ramps;beach.Poles S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14); (NC)-Not charted.

MINNEAPOLIS 7




SAULT STE. MARIE 8
HOUGHTON CO.-1200' 26 S
ISLE ROYALE SANDS 22 S
NORTHERN LAKES 35 S
KING'S GATEWAY-1736' 31 S
BOULDER JCT.
RHINELANDER-1598' 37
THREE LAKES-1664' 23
FORD-1140' 23 S
NORTHLAND
ANTIGO-1483' 33 S
ALEXANDER-1191' 27 S
MENOMINEE CO.-590' 27 S
CLINTONVILLE-828' 34 S
SHAWANO
STEVENS POINT-1090' 40H S
BROWN CO.-590' 28 S
NEPCO TRI-CITY
OUTAGAMIE CO.-750' 29 S
WAUPACA-853' 25 S
GINNOW-800' 19 S
VALLEY AIRWAYS
FOND DU LAC-769' 26 S
WINNEBAGO CO.-776' 50H S
CHICAGO 17
MARQUETTE CO. 27 S
Dr. A. L. HAIGHT 34 S
BLANEY PARK 18 S
EAST SIDE - 600' 19 S
MANITOWOC-653' 26LS
ESCANABA-594' 26 S
CHERRYLAND-590' 40S
FRANKFORT-650' 29 S
MANISTEE-BLACKER-613' 23 S
TRAVERSE CITY 624' 52H L S
KOHLER-647' 30S
GRAND RAPIDS 18
MASON CO.-640' 30
TRAVERSE CITY 365
CHARLEVOIX-642' 30 S
SAULT STE. MARIE-706' 33 S
SAULT STE. MARIE 356
RACO AAF-910' 55H
KINROSS AAF-780' 55H
EMMET CO.-707' 54H L S
MACKINAC CO.-600' 26 S
On request
ST. IGNACE 209
PET-O-SE-GA-620' 20 S
PELLSTON 206
On request
GRAYLING 50H
ATLANTA 20
CADILLAC-1297' 34L S
On request
CADILLAC 269
GLADWIN-780' 35S
On request
GLADWIN 257
PRESQUE ISLE CO.-658' 26
SCHEIDLER 22 S
ALPENA 50H
HILLMAN-995' 20 S
TIMBERS SKY CAMP-680' 24 S
MICH. 1 D.A.
HOUGHTON LAKE-1150' 27 S
ST. HELEN-1153' 26
LA PORTE 26
OSCODA AAF 50H
DETROIT 19
MICH. 3
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
CAN. MICH.
MICH. WIS.
CHICAGO
CHICAGO DETROIT
MINNEAPOLIS 7
137
204
31
24
139
214
319
34
47°30'
47°
46°
45°
44°
43°45'
90°
89°
88°
87°
86°
85°
84°
83°
82°30'
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "M" QUADRANTS.
SCALE OF MILES
25 0 25 50
31

RADIO — MICHIGAN

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CADILLAC	269 (KK)	MHT	(4)
GLADWIN	257 (GU)	MHT	(4)
PELLSTON(Emmet County)	206 (PJ)	MHT	(4) (6-22)
ST. IGNACE (Mackinac Co.)	209 (PQ)	MHT	(4)
SAULT STE. MARIE	356 (VC)	SBMRA-DT(317°,2.3)	(4)
TRAVERSE CITY	365 (TG)	SBMRAZ-DT(319°,2.3)	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210.3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alger County (Munising)	4 SSE; hwy E	850	24	Twr N; woods all sides.
Algona	6.5 WNW; RR S	685	50h	
Alternate(Roscommon)(NC)	2.5 SE; RR NE	1100	42	Pole line S.
Ampe (NC)	4 NW	1560	14	Not maintained.
Atlanta	0.8 ESE	875	20	Trees N, NW, W.
Baldwin (NC)	1.3 SSE; RR W	835	25	
Beaver Island(St.James)	4.2 SSW	620	35	(NC)
(P) Bellaire (NC)	1 NE; RR W,S	614	30	Poles SE; trees surround fld.
Big Lake (NC)	7.3 SW Baraga	1100	20	Trees on all sides.
Blaney Park	0.5 NW; lake N	850	18 S1	80,100 oct.
(P) Cadillac, 23, TL-VC	2.5 NW; RR E	1297	34 R1 L3 S4	80 oct.
Charlevoix	0.8 SW;lake NW	642	30 S1	80 oct. Poles W, NW, E.
Doherty (Clare)(NC)	1 NE	840	21	Poles S;NE cor, rough.
D.A.R. (Rexton) (NC)	1.9 WSW; RR N	900	22	Poles N.
(P) Dr. A. L. Haight (Crystal Falls)	1.3 ENE;lake E	1390	34 S4	80 oct. Trees, bldgs W.
East Jordan (NC)	1.9 SSE; riv W	640	26	Trees E, W.
(P) Emmet County (Pellston)	0.6 NW; RR E	707	54h R1 L3 S1	80 oct. Beacon on req.
Escanaba	2 SSW; hwy E	594	26 S4	73,80 oct.Trees E.
Ford (Detroit)	8.8 SW; RR N	600	37h L5 S6	80,91 oct. No svcg Sun. ARPT OF ENTRY.
Frankfort	1.9 ESE;lake W	650	29 S1	73,80 oct. Sur by hills.
(P) Gladwin	0.5 SSE; riv W	780	35 R1 L3 S1	80 oct.Fld lgts prior req.Poles NW
Grayling	1.3 NW; RR W	1152	50h	
Harrison (NC)	2.3 NNW; hwy E	1100	22	Surrounded by trees.
Hillman	2.8 NW	1995	20 S1	Ltd 73 oct. Woods all sides.
Houghton County(Calumet)	2 SE; RR W	1200	26 S4	80 oct. Twrs, poles W.
Houghton Lake (Houghton Heights)	1.2 WNW;lk NNE	1150	27 S2	73,80 oct. Radio twr W,N, lgtd.
Isle Royale Sands(Houghton)	2 ESE; lake SW	605	22 S4	80 oct.
Ishpeming-Dexter (NC)	7 W; RR N, S	1570	25	Poles N.
Kalkaska (NC)	0.5 WNW; RR E	1020	26	
(A) Kinross (A)	2.5 SE	780	55h	INACTIVE.
La Porte (West Branch)	6 SE; RR W	890	26	Pole line NW; trees NE, SW.
Luce County (Newberry)	4.1 SE; hwy S	872	20h	(NC) Poles S; trees W.
Mackinac Co.(St. Ignace)	2 NNW; hwy E	600	26 R1 S2	80,91 oct.
Mackinaw City (NC)	5 S; RR W	700	22	
Manistee-Blacker	4 ENE; riv S	613	23 S2	73 oct.
Marenisco (NC)	1.6 E; hwy N	1551	20	Trees surround fld.
Marquette County	7.9 W; hwy S	1412	27 S2	80 oct. Poles W.
Mason County (Ludington)	1.7 ENE	640	30	Poles S.
Menominee County	5 NNE; bay E	590	27 S1	80 oct. Trees surround fld.
Mio (NC).	1.6 N; hwy W	1050	26	
Northland (Norway)	2 W	1060	33 S3	80,100 oct. Pole line N.
Norway Township(Loretto)	2.4 S; lake N	860	21	Trees on side strips. (NC)
(A) Oscoda AAP (A)	3.5 NW; lake E	605	50h	INACTIVE.
Otsego County (Gaylord)	1 SW; RR E	1384	30	Pole line NE (NC)
Pet-O-Se-Ga (Wildwood)	1.8 NW;lake NW	620	20 S2	80 oct.
Poschke's (Harbor Beach)	2.5 W; rd S	670	18	(NC)
Au Gres (NC)	0.9 NNW;hwy S	590	20	Poles NE,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Presque Isle (Rogers City)	0.7 SSE; hwy E	658	26 S2	No fuel
Prickett (Sidnaw)	0.5 N; RR SE	1300	18	Use caution.
(A) Raco AAF (A)	4 WSW; RR N	910	55h	INACTIVE.
St. Helens	0.9 SE; RR NE	1153	26	
(P) Sault Ste. Marie	1 SSW; hwy E	706	36 R1 L3 S4	80,91 oct. All lgts prior req. ARPT OF ENTRY.
Scheidler (Alpena)	6.3 N; hwy NW	590	22 S1	80 oct.Pole lines N,SW.
(P) Schoolcraft County (Manistique)(NC)	3.3 ENE;lake S	613	31	Approaches 5:1
Steuben (Manistique)(NC)	20 NW	850	18	Woods all sides.
Timbers Sky Camp (South Branch)	0.2 NE; riv E	680	24 S1	80 oct.
(P) Traverse City	2.1 SE; RR NE	624	52h R1 L5 S2	80 oct.
Watersmeet (NC)	1.5 NNE;RR SSE	1581	24	Poles SE.
Sky Harbor (Gaylord)(NC)	1 WNW;RR N	1355	26 S1	73,80 oct.Pole line S.
Onaway (NC)	0.6 NNE;RR S	770	24	Trees SW,NW,SE.
Petosky-Harbor Spr(Petosky	4.5 NE;hwy E,N	620	20	Pole line,ridges E,N. (NC)
Roscommon Co.(Prudenville)	4.5 N;riv N	1150	24	Trees sur fld (NC)

WISCONSIN

Alexander (Wausau)	2.5 S; riv SW	1191	27 L4 S4	73,80 oct. Lgts prior req.
(P) Antigo	2 ENE; hwy N	1483	33 S2	80,91 oct.
Arbor-Vitae (NC)	2.9 W; RR S	1600	22	Pole line E, N.
Brown County(Green Bay)	2.2 WSW; hwy SE	590	28 S6	80,91 oct. Pole line NE,SE,S.
(P) Cherryland (Sturgeon Bay)	2 WNW; bay E	590	40 S2	80 oct. Pole line W, S.
Clintonville	1 ESE; RR SW	828	34 S6	80,91 oct.No sto,Pole line SW.
Eagle River (NC)	1.3 NW; riv NW	1675	32	
Fon du Lac	2.6 ENE;lk NNW	769	26 S2	80 oct. 50' hi-line N.
Ginnow (Omro)	3 N; RR E	800	19 S2	80 oct. Trees SW.
King's Gateway (Land O'Lakes)	0.5 SSE; RR W	1736	31 S2	80 oct. Twr NE; pole line NW.
(P) Kohler	1 N; hwy S .	647	30 L4 S6	80 oct. Lgts prior req. Obst sur fld.
Manitowoc	1.6 NNW; RR W	653	26 L3 S4	80 oct. No ben. Obsts sur fld.
(P) Nepco Tri City(Wisconsin Rapids)	2.5 SSW; riv W	950	36 S2	80 oct.
Northern Lakes(Manitowish)	6.8 E; hwy N	1600	35 S1	80 oct. Trees E, W.
Oconto Falls	2.7 ENE; RR S	600	20 S1	80 oct. Pole line N.
Outagamie Co. (Appleton)	2.2 ENE; RR S	750	29 S2	80 oct. Obsts sur fld.
Rhinelander	2 W; riv SE	1598	37 S2	80 oct. 10' bank NE.
Shawana	2.3 ENE;lake NE	813	19 S2	80,91 oct. Poles,trees sur fld.
Stevens Point	3 NE; riv SE	1090	40h S6	73,80 oct.
Three Lakes	0.5 S	1664	23	Bldgs, trees around fld.
Valley Airways (Neenah)	4 SSW; RR E	750	21 S2	80 oct Pole line E. Data unverified.
Waupaca	4 ESE;riv N, E	853	25 S1	80 oct, Trees around fld.
Winnebago Co.(Oshkosh)	2 SSW; RR NE	776	50h L1 S4	80 oct.No sto.Poleline NE,N,W.Rnwys
Boulder Junction	1.5 NW		38 S1	80,91 oct. Data unverified. unver.
East Side (Green Bay)	1.8 SE;RR S	600	19	Pwr line N,NE,NW.
Merrill(NC)	1.2 NNW	1285	22	Pole line NE.
Tomahawk (NC)	0.5 WNW	1450	15	
Washington Island (NC)	0.6 NNE of Detroit Harbor	600	24	

RADIO — MAINE

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA	221(AW)(116.1)	BMRLZ-VDT;81°,2	(4);116.1
BANGOR (Dow)	239(BB)(116.1)	SBRAZ-VDT;172°,2.1	(4);116.1
DOW (Bangor)	278(126.18)	AC (ILS)	(4);118.7,131.9,126.18
EAST CORINTH FM	(- - - -)	FM,352°,13.5	Bangor
HOULTON	272(HJ)(116.1)	BMRLZ-VDT;195°,3.1	(4);116.1
LIMESTONE FM	(-)	FM, 57°,22.3	Presque Isle
MILLINOCKET	344(MT)(116.1)	SBRAZ-VDT;292°,1.9	(4);116.1
PRESQUE ISLE	388(ZQ)	SBRAZ-DT	(4)
Presque Isle AAF	278 (126.18)	AC(ILS);189°,3.4	(4);388,365.116.1. 140.1,131.9,126.18
Presque Isle AAF	365 (RU)	SBMLZ; 9°,3.8	(4)

VERMONT

BURLINGTON	323(JQ)(116.1)	SBRAZ-VDT	(4);116.1
GRANDE ISLE FM	(- - - -)	FM, 349°,15	Burlington
HUNTINGTON FM	(- -)	FM, 151°,17	Burlington
MONTPELIER (Barre-Montpelier)	257(UV)(116.1)	BMRLZ-VDT;230°,2.8	(4);116.1
VERGENNES FM	(- - -)	FM,210°, 25.4	Burlington
Burlington Airport	278	C ,151°,2.8	(4)

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
DOW, ME.	109.9		150° Mag.	IM	(.06)	MM	(.89)	OM	(4.80)
						MMK		OMK	
PRESQUE ISLE AAF, ME.	109.9		10° Mag.	IM	(.05)	MM	(1.00)	OM	(5.00)
						MMK 201	(1.00)	OMK 219	(5.00)

S-Simultaneous Range and Voice; W-Without **Voice;** Z-VHF Station **Location Marker at** Range **Station;** **(3)-3105,4495,6210 kcs.;** **(4)-3105,4495,6210,3117.5.** kcs. Parenthetical **Numbers in the** Frequency **Column Indicate** VHF **on which Voice is Available.**

AIRPORTS — MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
AUGUSTA	1.5 WNW; hwy S	354	34h R1 L5 S6	80,91 oct.Fld lgts prior req.
Andover (NC)	2.5 S; hwy E	675	14	1125' hill, pole E.
Bar Harbor	9 NW; hwy W	87	45h S6	80 oct.
Bethel	1.6 NW; RR E	660	20 S1	80 oct.
Belfast	1 SW; hwy E	160	40h S4	80 oct. No sto.
Bishop (LaGrange)	0.8 N; RR W	360	20	WSW,ENE blocked.
Caribou	1 NW; hwy E	623	35h S6	80 oct.No sto.Bldg E.ARPT OF ENTRY
Deblois Flight Strip	2 SE; riv W,N	219	40h	
(P) Dexter	3 ESE; rd W,S	485	30h S2	80 oct.
Dsones (Brewer)	1.6 S; RR W	100	15 S5	80 oct. Poles NNE; trees SE.
DOW (Bangor)	2 W; RR S	160	70h R3 L6	INACTIVE.
Eastport	1.5 WNW;hwy NE	70	28h S1	80 oct. Pole line NW.
Fryeburg Airpark	1.3 E; RR S	400	20 S2	80 oct. Pole line S.
Greenlaw (Auburn)	1.8 W; hwy S	238	14 S6	80 oct. Bldg S.
Greenville	2 ENE	1750	30h	
Guertin (Lewiston)	1 NE	220	12 S2	87 oct. Trees,poles SSW.
HOULTON	2.5 E	474	57h R1	
" Flying Service	2.2 N; RR SW	380	14 S1	80 oct. Trees NNE.
LEWISTOWN-AUBURN(Auburn)	4.5 SW; RR W	290	45h L5 S4	80,91 oct.
Maheux (Minot)	3.5 NNW;hwy NE	720	18 S6	80 oct. Trees SSE.
Millinocket	0.5 SE; hwy W	404	50h R1 L5 S1	91 oct. Fld lgts prior req.
Newport	1.5 ESE; hwy N	280	21 S1	Ltd 80 oct. Pole line N.
Norridgewock	3.7 W;riv NE,W	270	40h	Trees ENE.
Norway	1 N; RR S	387	18 S1	80 oct. Pole line SE.
Old Town	1.8 NNW;riv N	109	40h L3 S3	80 oct.
Pittsfield	0.7 SSE;hwy E	190	40h S6	80 oct. Sand pile, bldg E.
Pittston	1.8 ENE; RR W	140	18	NW,SW,S blocked.
(A) PRESQUE ISLE AAF (A)	1.5 WNW; RR E	517	68h R3 L6 S6	91,100 oct. No sto.ARPT OF ENTRY
Princeton	1.5 SSE; hwyNE	250	40h	
Rangeley	1.6 NNW;hwy S	1810	15	
Raymond's (Phillips)	0.8 S; riv E	556	15 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Rockland	3.5SE; rd NE	49	45h L5 S1	80,91 oct.
Rollins (Turner)	2.5 NNW; rd E	335	20 S6	80 oct.
Roy L.Fernald(Winterport)	3 WNW; hwy S	182	40h L3 S1	80 oct. Lgts prior req.
Tomlinson (Skowhegan)	1 NNE; riv S	240	28 S6	80 oct. Poles S, NW.
Waterville	1.8 SW; riv E	303	40h L5 S6	80,91 oct.Fld lgts prior req.
Weston (Madison)(NC)	1 N; riv W	300	19	Poles WSW.
‡Eagle Lake (NC)	3.8 N	574	70 S1	80 oct. Obsts.
‡Eastport (NC)	1 W	S.L.	Unl	Ramp.
‡Fryeburg (NC)	1 E	358	120	Trees encircle lake.
‡Heart of Maine (Dexter)	0.5 N	433	40	Buoys;boat. Trees N,S,W. (NC)
‡Holden Pond (East Holden)	1.1 NNE	200	50 S1	73 oct. Ramp;dock. (NC)
‡Inland Fish&Game(Winthrop)	2.7 NNE	212	127 S1	80 oct. Buoys;beach;float. (NC)
©Moose Hd Lake(Greenville)	0.6 NNW	1028	50 S4	91 oct. Ramp. (NC)
‡Portage (NC)	0.4 WSW	609	160 S1	80 oct. Beach;boat.
‡Shinn Pond (NC)	0.7 NE	900	60 S1	80 oct. Buoys;beach;wharf. Obsts.
‡Squaw Mt.Inn(Greenv'l Jct)	1.5 N	1028	52	Buoy;boat;beach;float. (NC)
‡Tomlinson (Madison)(NC)	6.8 NE	330	130	Boat;beach;ramp.
Farmington	4 N;rd W	465	19 S2	80 oct.Dats unverified.

NEW HAMPSHIRE

Berlin	7.5 N; riv W	1140	52h S3	80 oct. No sto.
Dean Memorial(Haverhill)	4.1 NE; RR W	570	15 S1	80 oct. Trees N, NW.
Lancaster Airpark	0.3 N; riv W		20 S1	80 oct. Data not verified
Lewis (Littleton)	2.5 E; RR S	900	18 S4	80 oct. No sto.
Twin Mountain (NC)	0.8 SW; RR N	1430	18	
White Mtn. (North Conway)	1.9 SSE	540	23 S4	80 oct. Trees W, NW.

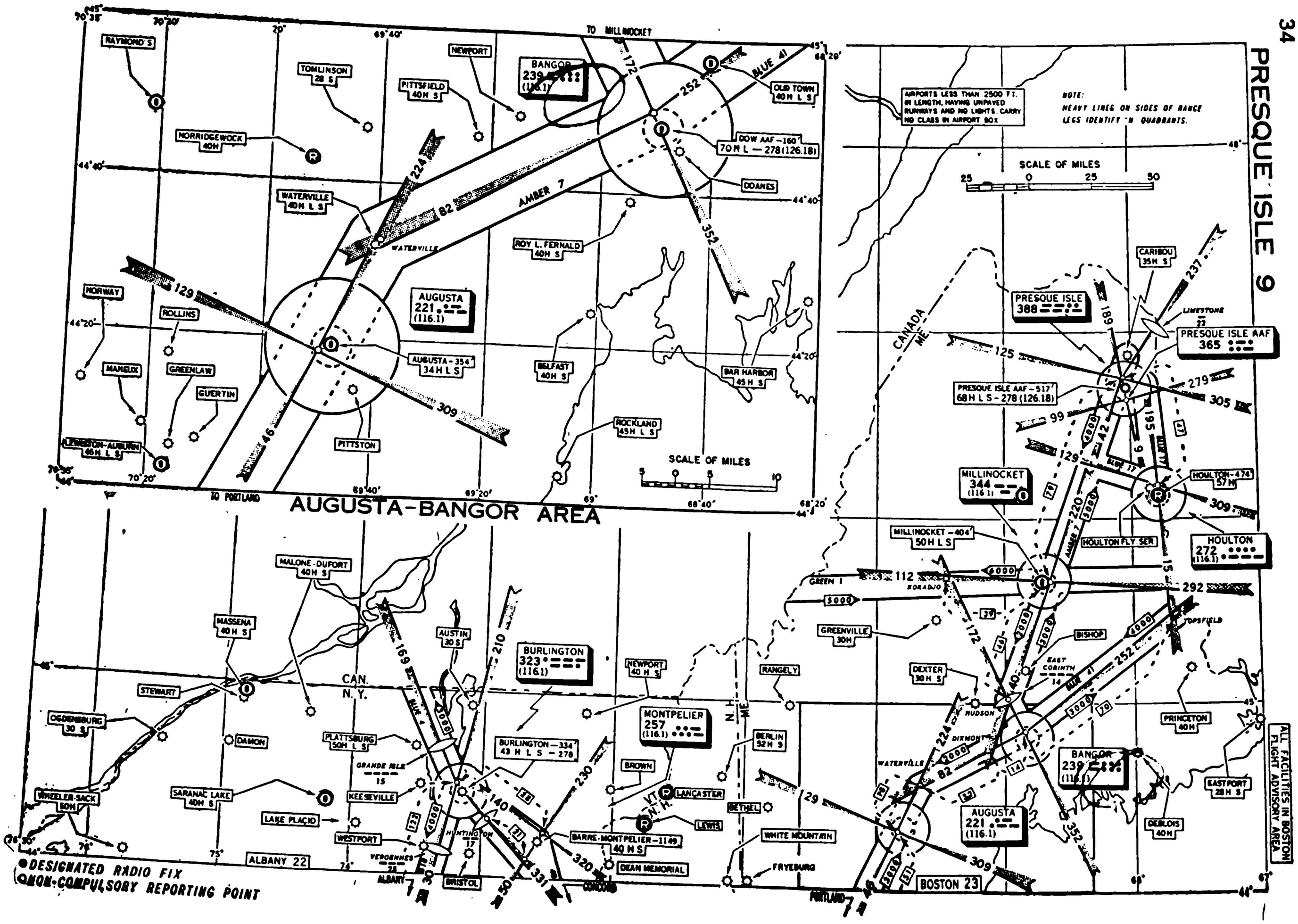
NEW YORK.

Bradley (Watertown) (NC)	2.2 N; RR E,W	435	18	Rough. Pole line W, SW.
Damon (Potsdam)	1.5 E;riv,RR W	460	19 S1	80 oct. Pole line N.
Keeseville	1.4 S; riv W	490	20	Pole W.
Lake Placid	2 SE; RR NW	1750	21 S1	80 oct.
(P) Malone-Dufort	2 W; RR N	790	40h S1	80 oct. ARPT OF ENTRY.
Marcy (Keene)(NC)	2.5 S; hwy E	1000	18	Mtn N, S.
(P) Massena	2.2 E; riv SE	200	40h L1 S6	80 oct. Bcn on req. Trees NSW.
Ogdensburg	1.5 SE; RR W	285	30 S6	80 oct. ARPT OF ENTRY.
(P) Plattsburg, mun	3.4 WSW;riv W	375	50h L5 S1	80,91 oct.
" old (NC)	1 N; RR W, SW	105	17	Use in emerg. PRIVATE.
(P) Saranac Lake	5.3 NW; RR NW	1655	40 L1 S1	80 oct. Bcn on prior req.
Stewart (Massena)	2.1 SE; RR NE	210	20	
Tupper Lake (NC)	1 E; RR NW	1680	8	Use strips only.
Westport	2 S; RR W	285	22 S2	80 oct.
Wheeler-Sack(Great Bend)	1 NNW; riv S	680	50h	

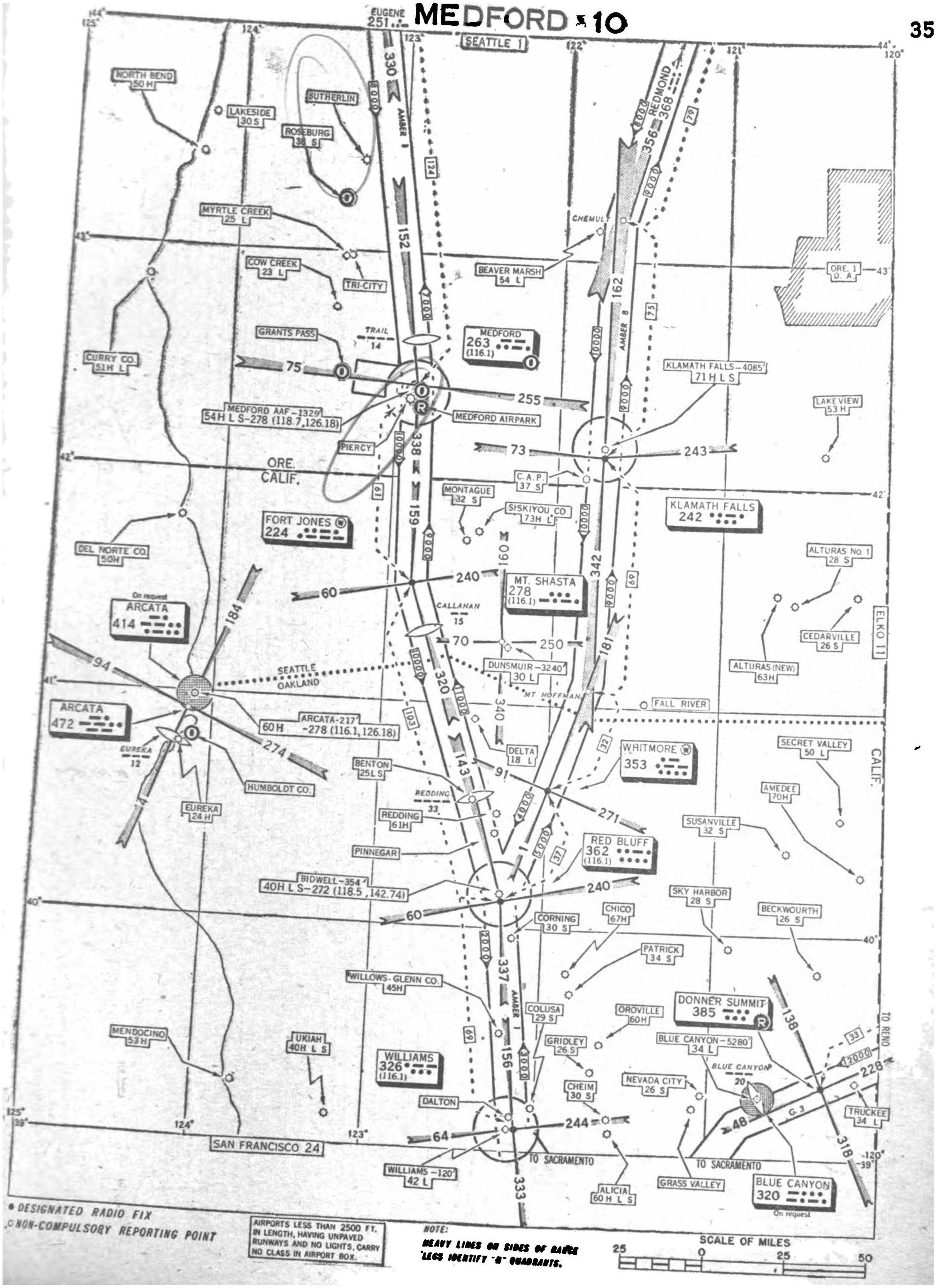
VERMONT

Austin (Swanton)	1.7 NE; RR W	235	30 S6	80 oct. No sto. ARPT OF ENTRY.
BARRE-MONTPELIER(Berlin)	0.8 SE	1149	40h R1 L5 S2	80,91 oct.
Bristol	0.7 W; riv SE	570	22 S6	80 oct. 1680' mtn SE.
Brown (St. Johnsbury)	5.2 N; RR E	807	23 S2	80 oct. Hills W, SW.
BURLINGTON	3 E; lake N	334	43h R2 L5 S6	80,91 oct. ARPT OF ENTRY.
Newport	3 SSW; RR E	930	40h L2 S1	Ltd 80 oct. All lgts prior req.

PRESQUE ISLE 9



MEDFORD 10



• DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

NOTE:

HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "R" QUADRANTS.

RADIO

CALIFORNIA

LOCATION	FREQ.,IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCATA	472 (NZM)	MRL	(4) Operated by U.A.L.
Arcata Airport	278 (116.1)	C, 40°, 3	(3); 116.1,126.18 (8-17) U.A.L.
Arcata (MH fac.)	414(MZL)(126.18	MH	(4) Operated by U.A.L.
BIDWELL (Red Bluff)	272 (118.5) (142.74)	C	(4);126.18.142.74 116.1 on req. (6-22).Tr.on 116.1,126.18 on req
BLUE CANYON	320 (BC)	MHT	(4)
BLUE CANYON FM	(- - -)	FM, 228°,19.5	Donner Summit
CALLAHAN FM	(- -)	FM, 140°, 15.1	Ft. Jones.
DONNER SUMMIT	385 (DS)	BMRL-DT	(4)
EUREKA FM	(- - -)	FM, 184°,11.7	Arcata.
FORT JONES	224 (FJ)	SRAWZ	
MT. SHASTA	278 (SC)(116.1)	BMLZ-VDT, 116°,2.2	(4); 116.1
RED BLUFF (Bidwell)	362(FH)(116.1)	SBRAZ-VDT,323°,2.5	(3); 116.1
REDDING FM	(- - - -)	FM, 323°,33.2	Red Bluff.
WHITMORE	353 (AWH)	MRLWZ	
WILLIAMS (Int.)	326(WS)(116.1)	SBMRAZ-VDT,244°,2.2	(4); 116.1

OREGON

KLAMATH FALLS	242 (FS)	SBRAZ-DT,342°,2.7	(4)
MEDFORD	263(MF)(116.1)	SBRAZ-VDT	(4); 116.1
Medford AAF	278 (126.18) (118.7)	AC; 158°, 2.4	(4);142.74,131.9,126.18,118.7
TRAIL FM	(- - - -)	FM, 332°, 14	Medford

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
(P) Alicia (Marysville)	3.2 SSE;RR W,E	63	60h L5 S6	80,91 oct;100 oct on req.
(P) Alturas (new)	6.8 WNW;riv S	5034	63h	
" #1	1 W;RR S	4391	28 S6	80 oct.
Amedee Flight Strip	4 SE;RR W	4007	70h	
Arcata	7.6 NNW	217	60h R2	
Ash Creek,USFS (McCloud)	11.2 ENE	3850	30	Clsd Dec-May.Trees SE,NW (NC)
Beckwourth	0.8 ENE;RR S	4900	26 S6	73 oct.
Benton (Redding)	1.1 WSW;riv E	719	25 L3 S4	73,80 oct.
BIDWELL (RED BLUFF)	1.7 SSW;RR E	354	40h R2 L5 S1	80,91,100 oct.
★ Blue Canyon Int,13,SF-SL	1.1NNE;RR S,E	5280	34 R1 L3	Obsts N,E.
Cedarville	0.6 S;lake E	4260	26 S2	80 oct.Pwr line E.
Cheim (Marysville)	1.5 NE;hwy S	67	30 S6	80,91 oct.No sto.Levee N,NE.
Chester, USFS (NC)	1.5 SSW;RR N	4525	31	18' pole line W.
Chico	5 N;rd E	250	67h	
Colusa	1.2 SW;RR W	47	29 S4	80 oct.Pole line NNW
Corning	1.3 NE;RR W	300	30 L1 S2	Ltd 73 oct.
Dalton Com. (Williams)	1 ENE;RR SW	80	26 S2	80 oct.Pwr line S.
(P) Del Norte Co. (Crescent City)	2.5 NW	57	50h	
★ Delta Int,22,SF-SA	1SW;RR,hwy N	1320	18 L3	800-1000' mtns E,W
★ Dunsmuir Int,25B,SF-SA	4.5 N;RR W	3240	30 R1 L3	Poles E,N,lgtd.
Eureka	2 W; Bay E	20	24h	
Fall River Mills	1 N;riv E	3300	26	
Fort Jones (NC)	1.5 W;riv SW	2745	30	Pole line NW
Gasquet (Crescent City)	13 ENE;hwy S	390	25	Hazardous-bad sppch.USFS (NC)
Grass Valley	0.8 W;hwy N	2600	18 S1	Ltd 80 oct.Trees sur fld.Pole line NE.
Gravelly Valley, USFS (Upper Lake)(NC)	20 N;lake S	2000	49	Road crosses NE/SW strip.
Gridley	0.7 ENE;RR W	97	26 S2	73 oct.Pole line N,S.
Hayfork, USFS (NC)	1.2 E;rd N	2350	23	Pole line W,mts E.
Humboldt County (Eureka)	3.4 ENE;RR SW	10	20 S4	80 oct.Poles NW.
Mendocino	4.9 SSE	572	53h	
Montague	1 W;RR N	2520	32 L1 S2	73,80 oct.
Nevada City	1.9 NW;rd S	3060	26 S4	80 oct.
Orleans, USFS (NC)	0.5 W;hwy S	493	14	Pole lines NE.
Oroville	3 SW;riv E	199	60h L3	Port. rnwy lgts on prior req.
Patrick (Chico)	2 SSE;RR E	189	34 S6	80,91 oct. Poles N.
Pinnegar (Anderson)	1 S;canal E	435	23 S1	73 oct.
Ravendale (NC)	0.2 N;RR W	5260	18	
Redding	7.5 SE;riv S	500	61h	
Round Valley (Covelo)(NC)	0.8 SW;hwy E	1385	30	
★ Secret Valley Int,52,	3.6 ESE Karlo	4435	50 L3	RV-ND
(P) Siskiyou Co. (Montague)	4.3 NE;RR W	2647	73h L5	
Sky Harbor (Quincy)	2.5 E;RR N	3400	28 S2	73 oct.Poles S.
Susanville	6.5 SE;hwy SW	4150	32 S6	73 oct.Pwr line N.
★ Truckee Int,16B,SF-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec-Apr.
Ukiah	1 S;RR E	612	40h L5 S1	73 oct.
Weaverville, USFS (NC)	1 SSE; hwy E	2040	22	30' poles S.
★ Williams Int,9,SF-SA	4 S;RR E	120	42 R1 L3	
Willows-Glenn Co.	1.3 WSW;RR E	130	45h L1	

OREGON

★ Beaver Marsh Int,73,RV-ND	6.2 SSW Chemult	4630	54 L3	
Civil Air Patrol (Worden)	1 S;RR NW	4080	37 S6	80 oct.No sto.Pwr line NNE.
Grants Pass	1.6 N;RR W	1050	20 S5	73,80 oct.Poles,trees,N.
★ Cow Creek Int,37B,SF-SA	2.5 ENE Glendale	1429	23 L3	Creek S.
(P) Curry Co. (Denmark)	3.8 WSW	214	51h L5	Fld lgts prior req.
Illinois Valley Landing Fld (Cave Junction)	4.3 SSW;riv lE	1350	43	Tree NNE.USFS. (NC)
Klamath Falls	4.9 SSE;RR NE	4085	71h R1 L5 S1	80,91,100 oct.
Lakeside	0.25 NE;hwy W	20	30 S4	80 oct.No sto.Pole line S.
Lakeview	3.5 SW;RR E	4728	53h	
(A,N) MEDFORD AAF (A)	3.2 N;RR E	1329	54h R2 L5 S4	73-100 oct.JP-1.Pole Line NE.
Medford Airpark	2.3 SE;RR W	1430	20 S6	80 oct. No storage.
★ Myrtle Int,39A,SF-SA	4 SW;riv,RR W	700	25 L3	Hill N.
(P) North Bend	1.2 WNW;bay NE	17	50h	
Pierce (Medford)	2.6 NW;RR E	1325	20 S4	80 oct.No storage.Poles SE.
★ Roseburg Int,41A,SF-SA	2.4 NNW;RR E	506	38 S6	80,91 oct. No storage.
Sutherlin Sky Ranch	3.8 ENE;rd E,S	575	18	
Tri-City (Riddle)	3.5 NE;RR N,W	700	19	Pole line N,S;cattle on fld.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOISE (Gowen)	350 (BE)	SBRAZ-DT,110°2.5	(4)
EAGLE FM	(- - - -)	FM, 321°, 11.5	Boise
GOWEN (Boise)	278(126.18) (118.3)	C	(4), 140.1,131.9,126.18, 118.3
MOUNTAIN HOME FM	(- -)	FM, 110°, 41	Boise

NEVADA

BATTLE MTN.	281(BP)(116.1)	BMRLZ-VDT, 301°, 5.5	(4), 116.1
CARLIN FM	(- - -)	FM, 230°, 19	Elko
DEETH FM	(-)	FM, 39°, 30.5	Elko
ELKO	391(EL)(116.1)	SBRAPZ-VDT, 200°, 0.8	(4), 116.1
FALLON NAAS	230 (VA)	SBRAZ-DT,219°2.9	(4) Not manned cont.
HUMBOLDT (Int.)	209(HD)(116.1)	BMRLZ-VDT 228°, 2.6	(4);116.1
RENO (Hubbard)	254(RP)(116.1)	SBRAZ-VDT 161, 3.3	(4), 116.1
WADSWORTH FM	(-)	FM, 48°, 27	Reno

S–Simultaneous Range and Voice; W–Without Voice; Z–VHF Station Location Marker at Range Station; (3)–3105,4495,6210 kcs.; (4)–3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bennett Flight Strip (Anderson Dam)	2.7 S,RR SW	4700	18	Pole line ENE.
Boise Airpark	1.8 WNW,RR S	2660	25 S6	73,80 oct.Trees SSE, NNW.
Bradley (Boise)	3.3 WNW,riv NE	2637	30 S6	80,91 oct.Trees SE.
Caldwell	1.3 W,RR N	2370	32 S6	80 oct.Trees NW,bldg NE.
College (Boise)	1.8 S,riv N	2695	22 S4	80,91 oct.
Emmett	2.6 SW, RR NW	2300	28 S2	73 oct.
Floating Feather (Eagle)	2 E,hwy W	2635	38 S4	80 oct.Soft when wet.
Glenns Ferry	1.3 WSW,riv S	2556	34 S1	Ltd 80 oct.
(A) GOWEN (Boise)(A)	4.5 SSW	2857	77h R2	INACTIVE.
(A) Mountain Home AAF	10.7 WSW	3004	100h	INACTIVE. (A)
" Site 25,SL-PO	2 WSW	3240	48 L3	
Nyssa Arpk.(Parma)	6.1 NNW,RR W	2200	28 S4	80 oct.No sto.
Parma	0.6 SSE,RR NE	2225	23 S2	80 oct.25' poles NW.
Ritchey (Nampa)	2 E,hwy N	2535	28 L3 S6	73 oct.No bcn.Lgts prior req.

h–hard surfaced runways. R–radio facilities. L–lighting facilities. S–servicing. (see page 14) (NC)–Not charted.

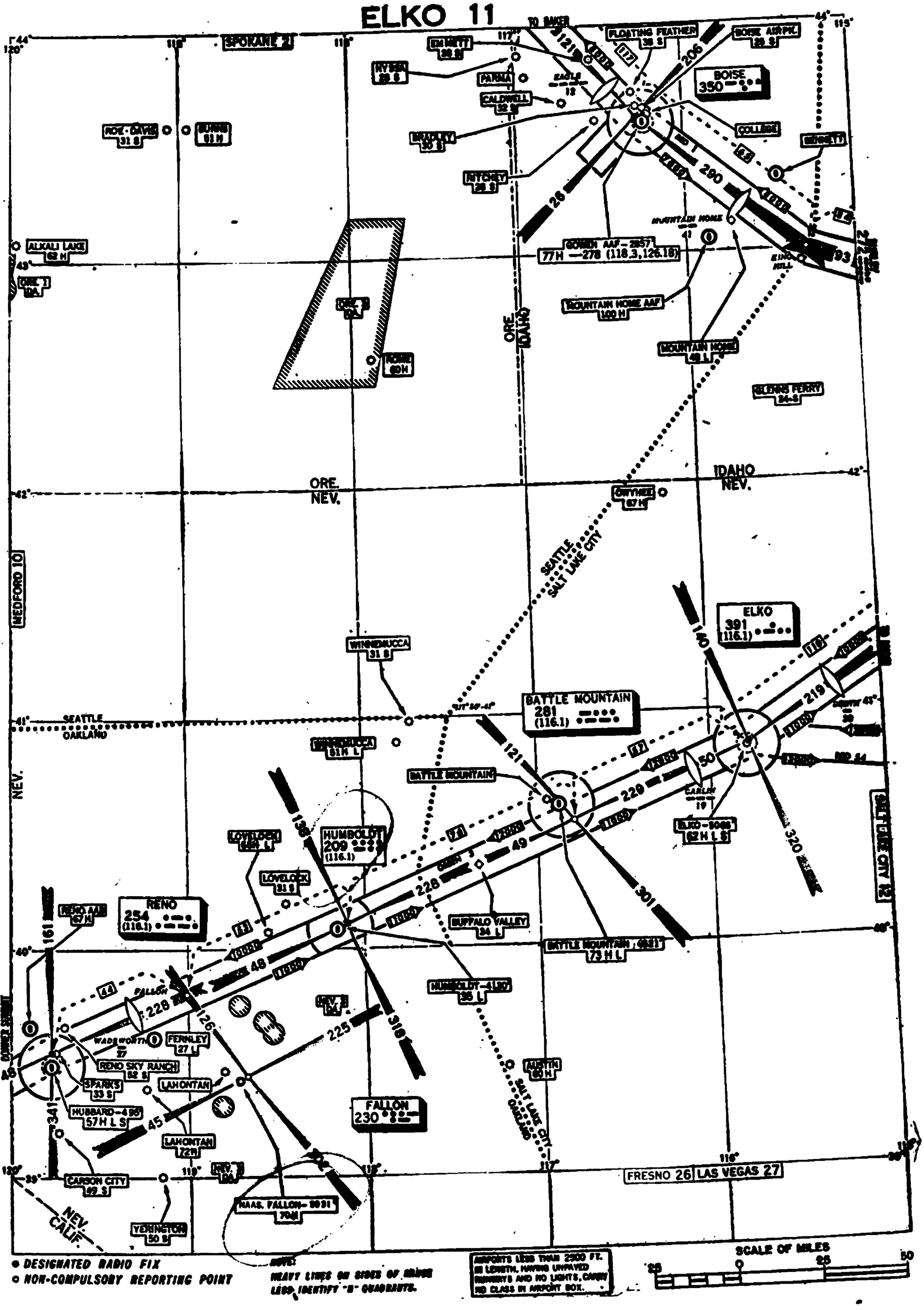
NEVADA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Austin	7 WSW,riv NW	5730	60h	
Battle Mtn.	1.5 WSW,hwy N	4521	24 S2	73, 91 oct.
(P) " Flgt Strip,35, SF-SL	4 SE,RR N	4521	73h R1 L3	
* Buffalo Valley Int, 32, SF-SL	15 W Bailey	4664	34 L2	
Carson City	3.1 NE,hwy W	4684	49 S6	80 oct.Mts N,hill W.
ELKO	1.8 W,RR S	5066	62h R1 L5 S4	73, 91 oct.
* Fernley Int,22,SF-SL	3.3 E,hwy NW	4156	27 L2	
(N) Fallon NAAS (N)	6 SE,hwy S	3931	70h R1 L5	
HUBBARD (Reno)	3.4 SE,RR N	4395	57h R1 L5 S4	80,91 oct.Fld lgts prior req.
* Humboldt Int,28B, SF-SL	14 S Rochester	4131	35 R1 L3	
Lahontan (Fallon)	1.4 SSW,hwy N	4000	24 S4	80 oct.Poles ENE,WSW
" Flgt Strip	15.5 S,hwy N	4279	72h	(Fernley)
Lovelock	1.5 ENE,riv W	3986	31 S2	80 oct.
(P) " Site 26,SF-SL	9 SSW,RR NW	3906	55h L5	
Orovada (NC)	1.2 W,hwy E	4300	32	
Owyhee Flight Stp.	4.8 W	5379	67h	
(A) Reno AAB (A)	10.5 NNW,RR SW	5018	76h	INACTIVE.Mts sur fld
Reno Sky Ranch (Sparks)	8.5 NNE,hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
Sparks Airpark	0.6 N,RR S	4400	33 S6	80,91 oct.Poleline W.
Winnemucca	1 NE,RR NW	4303	31 S4	73 oct.
(P) " Site 32A,SF-SL	6 SW,RR N	4303	51h L5	
Yerington	1.2 N,RR W	4483	50 S1	73 oct.

OREGON

Alkali Lake Flgt Strip	7.5 N	4313	62h	
Burns	5.1 E	4140	51h L5	Contact lgts prior req
Roe Davis (Burns)	0.6 WSW,RR SE	4165	31 S6	80 oct.
Rome Flgt Strip	26.6 SW,hwy E	4050	60h	

ELKO 11



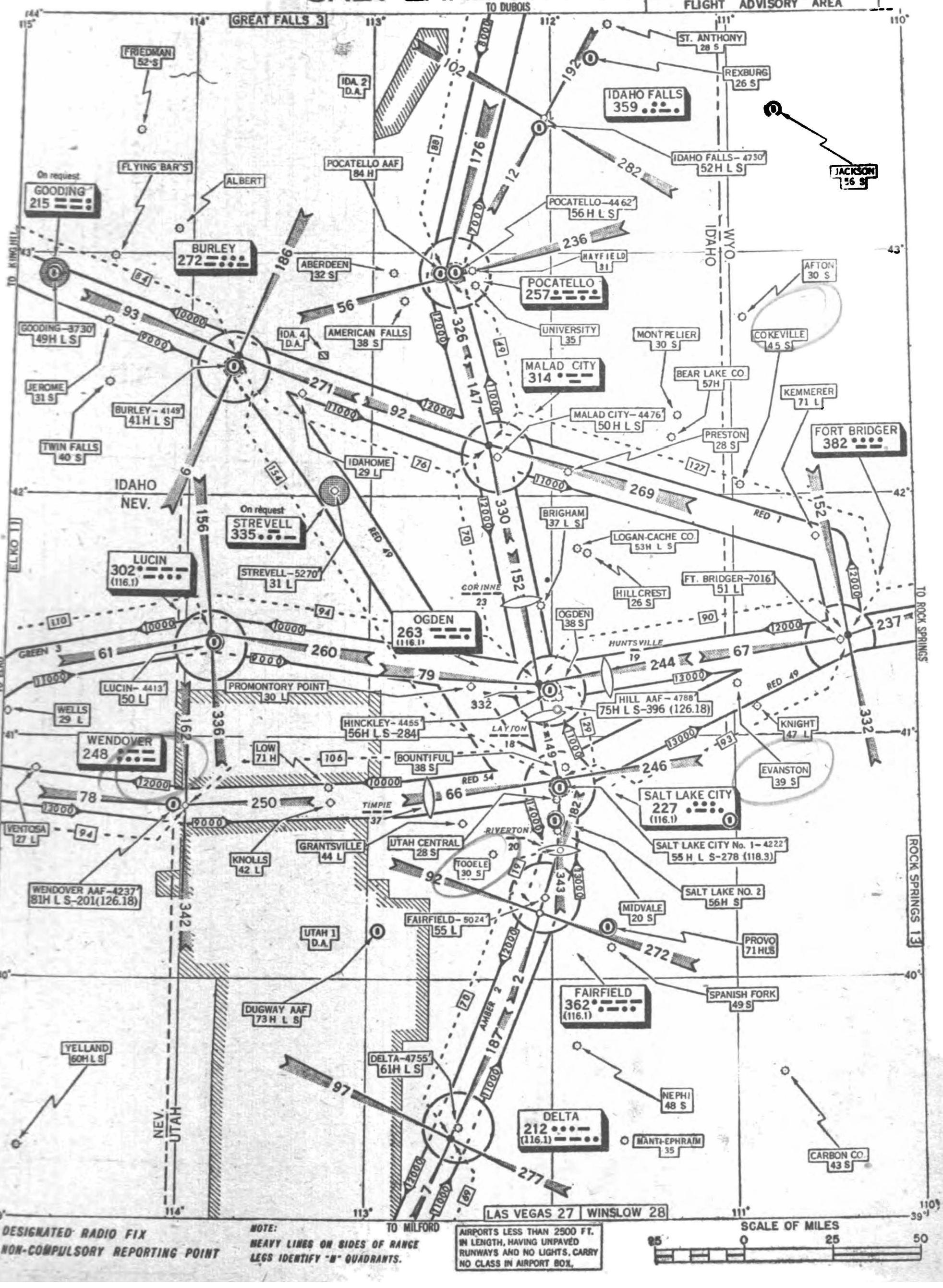
- DESIGNATED RADIO FIX
- NON-COMPULSORY REPORTING POINT

NOTE: HEAVY LINES ON SIDES OF AIRWAY LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SALT LAKE CITY 12

ALL FACILITIES IN SALT LAKE CITY FLIGHT ADVISORY AREA



SALT LAKE CITY 12

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURLEY	272 (BX)	SBRAPZ-DT,200°,2.7	(4)
GOODING (new)	215 (GG)	MHT	(4)
IDAHO FALLS (Mun.)	359 (IF)	SBMRAZ-DT,192°,2.6	(4)
MALAD CITY (Int.)	314 (WT)	SBRAZ-DT,131°,3.4	(4)
POCATELLO	257 (PQ)	BMRLZ-DT, 56°, 2.5	(4)
STREVELL (Int.)	335 (TV)	MHP	(4)

UTAH

CORINNE FM	(- - - -)	FM, 332°, 23	Ogden
DELTA	212 (VZ)(116.1)	SBRAZ-VDT, 7°,3.6	(4); 116.1
FAIRFIELD (Int.)	362 (JL)(116.1)	BMRLZ-VDT, 2°, 4.4	(4); 116.1
HILL, OGDEN	396 (126.18)	CA	(4); 126.18
HUNTSVILLE FM	(-)	FM, 64°, 19	Ogden
LAYTON FM	(- - - -)	FM, 329°, 18	Salt Lake City
LUCIN (Int.)	302 (JB)(116.1)	BMRLZ-VDP,156°,2.4	(4); 116.1
OGDEN (Robert H. Hinckley)	263 (OG)(116.1)	SBRAZ-VDT,107°,3.4	(4); 116.1
RIVERTON FM	(- -)	FM, 163°, 19.5	Salt Lake City
ROBERT H. HINCKLEY,(Ogden)	284	CI	(4);(8:30-2130. Mon.&Tues. (1130-2130)
SALT LAKE CITY	227 (SL)(116.1)	SBRAZ-VDTX	(4); 116.1
Salt Lake City Arpt.#1	278 (118.3)	C; 163°, 3	(4); 131.9,118.3,126.18, otners on req.
TIMPIE FM	(- - -)	FM, 246°, 37	Salt Lake City
WENDOVER	248 (WV)	SBMRAZ-DT	(4)
Wendover Field	201 (126.18)	CA; 258°, 2.2	(3);126.18 (8-22 other hrs. on 24 hrs advance notice)

WYOMING

FORT BRIDGER (Int.)	382 (HM)	SBRAZ-DT,228°,2.4	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen	2.7 SW;rd W	4460	32 S6	73 oct. No sto.
Albert,(Richfield)	5.2 NE;RR W	4400	23 S2	Ltd 80 oct.
American Falls	2 NE;RR NW	4404	38 S1	73 oct. Poles S.
Arco (NC)	1.5 ESE;hwy W	5330	26	Hills NE.
Bear Lake Co. (Paris)	3.3 ENE;riv NE	5928	57h	
Buhl (NC)	5.7 W;crk W,E	3690	41	
Burley	1.3 ENE;RR SW	4149	41h R1 L5 S4	80,91 oct.Pole line WNW.
Flying Bar "S" (Shoshone)	4.6 NNW;riv S	3900	12 S1	73 oct.
Friedman (Hailey)	0.8 S;RR E	5300	52 S1	73 oct.
Gooding (new)	3.5 WSW;hwy N	3730	49h R1 L5 S6	73 oct.
Gooding (old)	4 SSW	3570	20	
Tyhee (Hayfield)	2 SE;RR W	4600	31	
IDAHO FALLS	2 NW;riv,RR E	4730	52h R1 L3 S6	80,91 oct.Polelines S,NE.
★ Idahome Int,13,SL-PO	0.8 NNE	4460	29 L3	
Jerome	3.3 ENE	3980	31 S1	73 oct.
MacKay (NC)	0.8 SE;RR NE	5900	30	Rough.
★ Malad City Int,9,SL-GT	2.6 NNE;hwy S	5900	30 R1 L3 S1	73 oct.Hills,trees S,SW,NE.
POCATELLO	5.8 NW;RR S	4462	56h R1 L5 S6	80,91 oct.
(A) " AAF (A)	8.1 WNW	4445	84h	INACTIVE.
Preston	1.7 WNW;riv W	4800	28 S2	80 oct.
Rexburg	0.8 S;RR NW	4900	26 S4	80 oct.Rolling. No sto.
St.Anthony	1.1 SSE;RR W	4955	28 S1	73 oct.Poles,trees NNE.
★ Strevell Int,10, SL-PO	0.3 NNW;hwy W,S	5270	31 R1 L2	
Thousand Springs (Hagerman) (NC)	4.5 SSE;riv N	3000	30	

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Twin Falls	6.5 S;creek N	4200	40 S6	80,91 oct.No sto.
University (Ham's)(Pocatello)	1 ENE;hwy W	4600	35 S2	Hills N,S.No fuel.
Victor (Bennett Fld)(NC)	0.8 SE;hwy W	6198	25	UNUSABLE.

NEVADA

★ Ventosa Int,48,SP-SL	0.5 N;RR S	5600	27 L3	
★ Wells Int,46B,SP-SL	1.5 S;rd W	5665	29 L2	
Yelland (Ely)	3.5 NNE;hwy E	6258	60h L3 S6	80 oct.Fld lgts prior req.

UTAH

Bountiful Sky Haven	2.6 WSW;rd E	4222	38 S4	80 oct.Pole line N,NW,SE.
Brigham	3 NW;RR S	4220	37 L3 S6	80 oct.
Carbon County (Price)	2.8 E;RR W	5800	43 S6	80 oct.
Delta	4.8 ENE;hwy NW	4755	61h R1 L5 S2	80,91 oct.
(A) Dugway (Tooele)(A)	41.5 SW;hwy E	4338	73h L5 S4	73,91,100 oct. CLOSED.
Duchesne (NC)	2.2 NNE;riv W	5700	55	Pole line W,NW.
★ Fairfield Int,59,LA-SL	6 NE;RR SE	5024	55 R1 L3	
★ Grantsville Int,60,SP-SL	3 N;RR E	4229	44 L3	Poles E.
(A) Hill (Ogden)(A)	6.5 S	4788	75h R1 L5 S6	63,73,91,100 oct.JP-1.
Hillcrest (Logan)	2.7 NE;RR W	4780	26 S6	80 oct.Mtn SSE.
(P) HINCKLEY (Ogden)	3.5 SW;RR NW	4455	56h R2 L5 S6	80,91 oct.
★ Knolls Int,56,SP-SL	5 ENE;RR S	4360	42 L3	
Logan-Cache Co.(Logan)	4 NNW;RR E	4460	53h L5 S6	80 oct.
Low Flight Strip	11.8 W;hwy S	4241	71h	
★ Lucin Int,52,Ogden Cutoff, SP-SL	3.5 E;RR S	4413	50 R1 L3	
Manti-Ephraim (Ephraim) (NC)	2.8 SW;RR SE	5500	35 S2	No fuel.
Midvale	3 WSW;RR NW	4500	20 S4	73 oct.No sto.
Mt. Pleasant (NC)	1.5 SSW;RR NW	5857	48 S2	80 oct.
Myton (NC)	1 E;riv N	5090	31	
Nephi	2.5 NW;RR E	4800	48 S1	Ltd 80 oct.
Ogden Airpark	4 S;hwy NE	4700	31 S4	73 oct.No sto.
★ Promontory Point Int,3, SL-PO	0.5 W;RR S,E	4280	30 L3	
(P) Provo	2.8 WSW;RR N	4490	71h L5 S6	73 oct.Fld lgts prior req.
SALT LAKE CITY #1	2.5 WNW;RR S	4222	55h R2 L6 S6	73,80,91 oct.Rdo rec req.
" No. 2	10.5 SSW;RR W	4617	56h S4	73 oct.
Spanish Fork	2 NW;RR SE	4500	49 S6	80 oct.
Tooele (NC)	1.4 WSW;RR W	4800	30 S4	80 oct.No sto.Mtns SE.
Utah Central (Salt Lake City)	4 SW;RR N	4240	28 S4	73 oct.Pole line N,NW.
(A) Wendover (A)	0.5 S;RR N	4237	81h R2 L5 S6	73,91,100 oct.JP-1.CLOSED.

WYOMING

Afton	0.3 SW;hwy E	6239	30 S5	73,80 oct. 40' trees N.
Cokeville	2.5 SSW;riv E	6250	45 S1	Ltd 73 oct.
Evanston	3.6 SSW	6800	39 S1	73 oct.200'hill SSE.
★ Fort Bridger Int,9,SL-OH	5 N	7016	51 R1 L3	Carter 3 mi NNW.
Jackson	9 N;riv W	6400	56 S1	73 oct.
★ Kemmerer Int,B17,BX-RT	1.5 NNW;RR S	7276	71 L3	
★ Knight Int,6,SL-OH	5 S;riv NNE	7615	47 L3	
Big Piney (NC)	2 N	6900	37	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO — COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
EAGLE (6 mi. ENE Eagle)	108.3 (EQ) 111.1 (116.1)	VAR-VDT	4495,3117.5,116.1 only.
GRAND JUNCTION (12.7 mi. SW of Walker Field)	108.7 (EJ) 111.1 (116.1)	VAR-VDT (ILS)	3105,4495,3117.5;131.7, 116.1 only.
WYOMING			
CASPER (Wardwell Field)	269 (CW)	SBRAZ-DT,263°,2	(4)
DOUGLAS (Int.)	251 (DQ)	HT	(4)
LARAMIE (Gen'l. Brees Field)	245 (LR)	SBMRAZ-DT, 137°, 2.2	(4)
MIDWEST FM	(- - - -)	FM, 339°, 15.1	Casper
PT.OF ROCKS FM	(-)	FM, 66°, 15.4	Rock Springs
ROCK SPRINGS (new)	290(RT)(116.1)	SBRAZ-VDT, 246°, 2.9	(4); 116.1
SILVER CROWN FM	(- - -)	FM, 282°, 12	Cheyenne
SINCLAIR (Int.)	209(XP)(116.1)	SBMRAZ-VDT, 80°, 1.7	(4): 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)						
LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
WALKER, COLO.	110.3 .- - -	335	110°Mag	IM	MM ..... (.69)	OM -- (4.52)
					MMR	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Colema Indicate VHF on which Voice is Available.

AIRPORTS — COLORADO

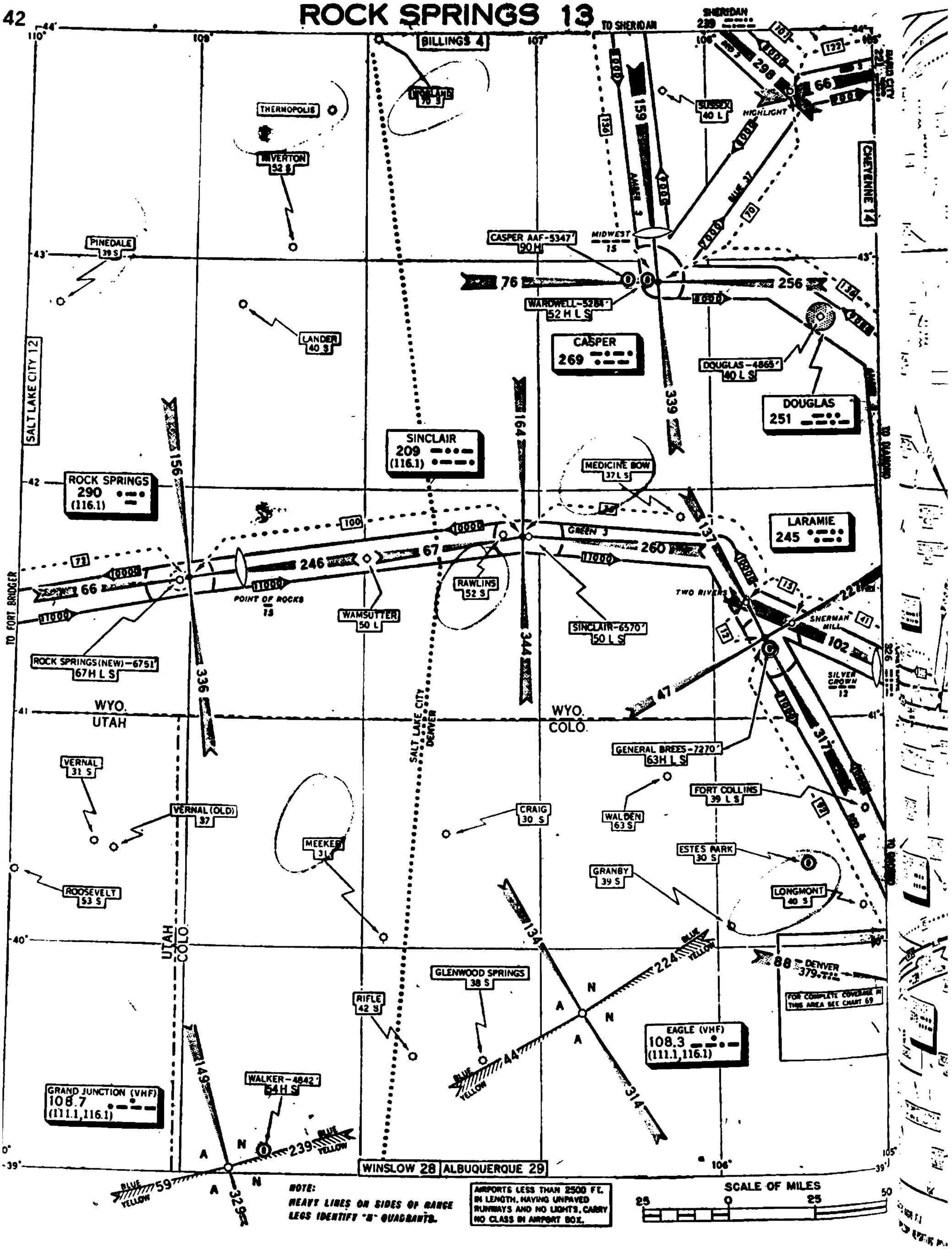
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Craig	1.8 SE;riv N	6300	30 S6	80, 91 oct.
Estes Park	2 SE;riv N	7635	30 S1	80,91 oct.Trees S.
(P) Ft.Collins,5,DV-LR	4 WNW;rd S	5150	39 L2 S6	73,80 oct.Poles SE.
Glenwood Sprgs.	2 S	5900	38 S1	73 oct.
Granby	1 ENE;riv W	8200	39 S1	80 oct.Poleline E.
Leadville (NC)	3 NNW;hwy E	10,000	45	
Longmont	2.9 W;RR N	5030	40 S6	80,91 oct.Trees NW.
Meeker	1.3 E;hwy S	6300	31	
Rifle	3.3 E;riv N	5400	42 S1	80 oct.
Teter (Fairplay)	3 SSE;hwy E	9700	67	(NC)
Walden	1.5 N;hwy W	8250	63 S1	80 oct.
(P) WALKER (Grand Junction)	2.8 NNE;rd W	4842	54h R L3 S6	80,91 oct.
UTAH				
Roosevelt	1.3 NE;hwy S	5000	53 S2	80,91 oct.Poleline SE,E
Vernal (new)	1 SSE;hwy N,E	5280	36 S6	80,91 oct.
Vernal (old)	7 ESE;riv 4 E	5200	37	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not Charted.

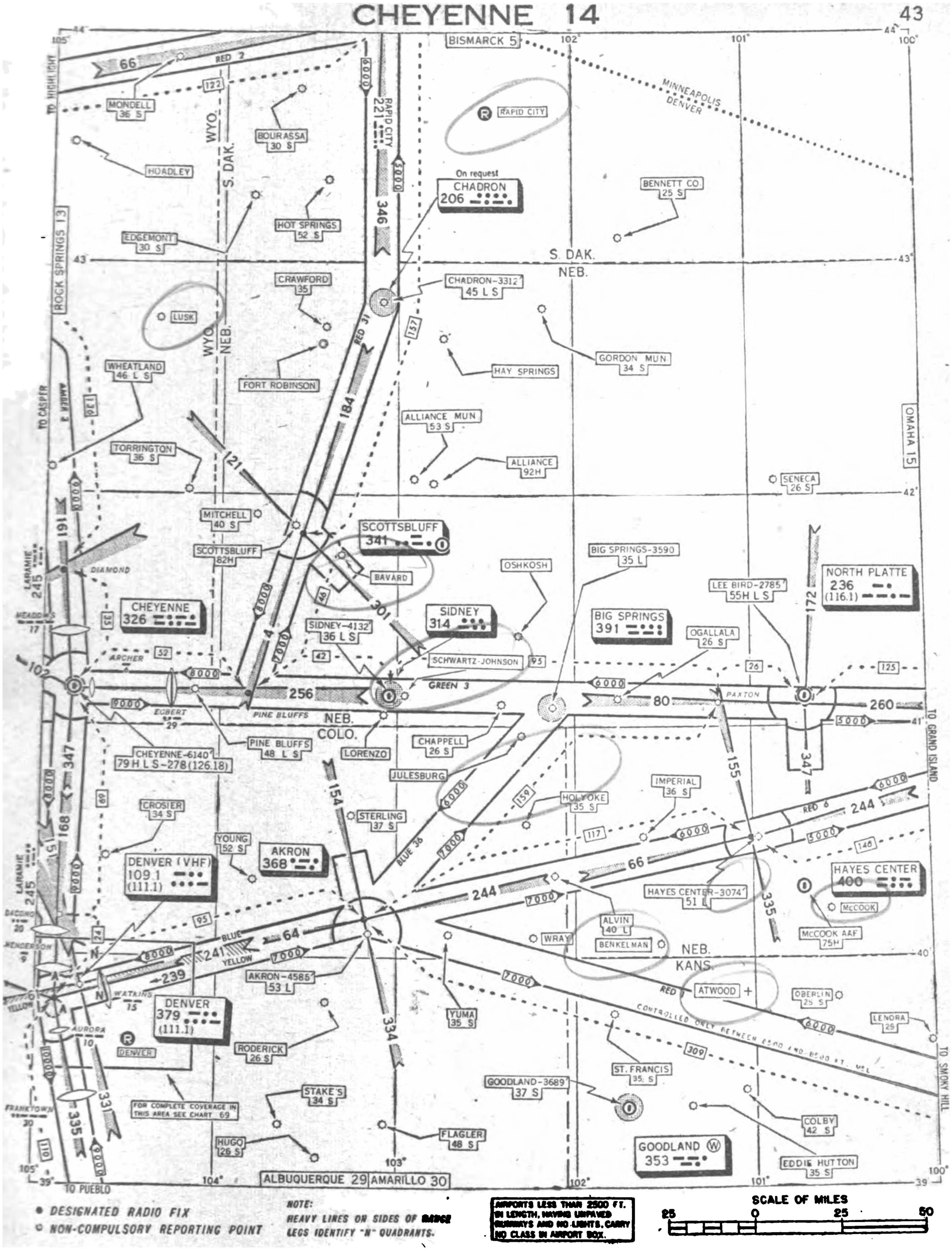
WYOMING

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Casper AAF(A)	9 NNW;hwy SW	5347	90h	INACTIVE
* Douglas Int,11B, CX-GT	1.5 SE;RR W	4865	40 R1 L3 S1	73 oct.
General Brees (Laramie)	4 W;riv SE	7270	63h R1 L5 S6	80, 91 oct.
Lander	1.5 S;riv W	5550	40 S2	73 oct.
Medicine Bow,31, SL-OH	1.3 SE;RR N	6640	37 L3 S1	73 oct
Pinedale	5.5 SSE;hwy NE	7200	39 S2	73 oct.
Rawlins	2.3 NE;RR 1 S	6780	54 S3	80,91 oct.
Riverton	3.8 NW;hwy SW	5453	52 S4	Ltd 73 oct.
ROCK SPRINGS (new)	8.8 E;RR N	6751	67h R1 L5 S6	73,91 oct.
(P) Rock Springs (old)	3.8 NNW	6370	58	(NC)
* Sinclair Int,27, SL-OH	3.8 ENE;RR S	6570	50 R1 L3 S1	73,100 oct.
* Sussex Int,22A,CX-GT	2.5 NNE;riv 5 E	4800	40 L3	
Thermopolis	1 N; riv W	4400	33 S1	80 oct.
* Wamsutter Int,22, SL-OH	2.4 NNW;RR E	6812	50 L3	35' pole line S.
WARDWELL (Casper)	5 NNW;hwy E	5284	52h R1 L5 S6	73,91 oct.
(P) Worland (NC)	2.8 S;canal NW	4185	70 S1	80, 91 oct.

ROCK SPRINGS 13



CHEYENNE 14



- DESIGNATED RADIO FIX
- NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "N" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
25 0 25 50

RADIO — COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AKRON (Int.)	368 (RN)	SBMRAZ-DT, 154°,3.6	(4)
AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DACONO FM	(. . -)	FM, 348°, 20	Denver
DENVER (Stapleton)	379(DV)(111.1)	SBMRAZ-VDTX;159°,2.5	(4);131.7
DENVER (9 mi ENE Stapleton)	109.1(DV) 111.1	VAR-VDT	(4); 131.7
FRANKTOWN FM	(. . - - -)	FM, 155°, 29.6	Denver
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

KANSAS

GOODLAND	353 (GN)	HW-T	

NEBRASKA

BIG SPRING (Int.)	391 (BG)	BHT	(4)
CHADRON	206 (HC)	MHT	(4)
HAYES CENTER (Int.)	400 (KB)	SBMRAZ-DT,64°, 2.1	(4)
NORTH PLATTE (Lee Bird)	236(NQ)(116.1)	SBRAZ-VDT,352°,2.2	(4); 116.1
SCOTTSBLUFF	341 (TP)	BMRLZ-DT, 301°, 3	(4)
SIDNEY (Int.)	314 (SD)	BH-DT, 350°,0	(4)

WYOMING

ARCHER LFM	(-)	LFM, 76°,5.6	Cheyenne
CHEYENNE	326 (CX)	SBRAZ-DT	(4)
Cheyenne Airport	278 (126.18)	C; 76°, 1	(4);116.1,131.9,126.16
EOBERT FM	(. . -)	FM, 76°, 29	Cheyenne
MEADOWS FM	(- - - -)	FM, 341°,16.8	Cheyenne

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.;Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — COLORADO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Akron Int.,9,DV-GI	3.9 SE; RR N	4585	53 R1 L3	
★ Alvin Int.,15,DV-GI	3.5 NNE	3600	40 L3	Rds S, N.
Burlington (NC)	0.5 W	4160	32	Pole line S, N.
Crosier (Greeley)	3.5 E; RR N	4649	34 S6	73 oct.
Doughty's (Julesburg)	12 ESE	3600	18	PRIVATE,Use in emergency.
Flagler	0.8 S; RR N	4975	48 S1	73 oct. 20' pole line E.
Holyoke	1.8 ESE; RR NW	3720	35 S1	80 oct.
Hugo	1.5 E; RR S	5034	26 S1	80 oct.
Julesburg	2.8 SW; RR SE	3490	24 S4	73 oct.No sto.Pwr line S.
Roderick (Lindon)	4.3 N; riv E	4900	26 S1	73 oct.
Stake's Prairie(Limon)	2.2 ENE; RR S	5375	34 S4	73 oct.
(P) Sterling	2.8 W; RR S	4020	37 S6	73,80 oct.
Wray	1.2 NNW; RR S	3400	30 S1	Ltd 73 oct.
Young (Fort Morgan)	6 N; hwy E	4460	52 S4	73 oct.
Yuma	1.4 SSE; RR N	4150	35 S6	73 oct. Poles S, SW.

KANSAS

Colby	1.8 N; RR S	3150	42 S2	80 oct. Poles SW, W.
Eddie Hutton.(Brewster)	1 SE; RR N	3420	35 S2	73 oct.
Goodland	2 NNE; hwy W	3689	37 S2	80,91 oct.Trees NW.
Lenora (NC)	1.2 NNW; hwy S	2325	29	
Oberlin	0.9 NW; RR SE	2684	25 S1	80 oct. Pole line SE, NE.
St. Francis	1 SSE; riv NW	3400	35 S2	80 oct.
[redacted]	3 N;hwy W	2400	26 S1	73 oct.Data unverified.

NEBRASKA

Alliance	4.6 SE; RR W	3930	92M	
" mun	2.8 SW; RR,hwy E	3965	53 S6	80 oct.
Bayard	1.3 SSW; RR W	3760	25 S2	No fuel. Poles N,E,NW,SE

h-hard surfaced runways R-radio facilities. L-lighting facilities. S-servicing. (see page 16) (NC)-Not charted.

NEBRASKA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Benkleman	1.2 NNE; RR SE	2990	28 S1	80 oct.
★ Big Springs Int,55,SL-OH	3 WNW; hwy N	3590	35 R1 L3	Pole line E.
Chadron,15,CX-HR	4.8 W; hwy S	3312	46 R1 L3 S4	73 oct.
Chappell	3 E; RR SW	3839	29 L1 S2	80 oct. Pole line W.
Crawford	3.8 NNW; hwy E	3676	35	Poles E, W.
(A) Ft. Robinson (A)	2 S; RR N	3920	18	
Gordon	1.3 E; RR N	3549	34 S4	73,80 oct. Poles N,S,W
[redacted] DV-GI	3 ENE; rd S	3974	51 R1 L3	
Hay Springs	2.5 W; hwy E	3840	17 S2	80 oct. Pole line N.
Imperial	1 ESE; RR SW	3240	36 S4	80 oct.
(P) LEE BIRD (North Platte)	3.2 ESE; riv SW	2785	55h R1 L5 S6	73,80,91,100 oct.
Lorenzo	0.6 WNW; RR E	4400	17 S1	Ltd 73 oct. Cattle on fld.
McCook	2.2 E; RR,hwy S	2586	42 S4	80 oct. Windmill N.
(A) [redacted] AAP (A)	9 NNW; hwy E	2784	75n	INACTIVE.
Mitchell	1.6 S; riv N	3950	40 S6	73,80 oct. Trees, poles NW.
Modisett (Rushville)(NC)	2.4 NE; RR S	3475	30	Plugs, pole line E.
Ogallala	2 W; RR S	3250	26 L1 S6	80 oct. Poles S, SE, SW.
Oshkosh	1.8 SE; riv S	3375	21 S1	Ltd 80 oct. Poles NW,NE.
[redacted] (Sidney)	1.6 SSE; RR,hwy N	4120	32 S1	73,80,91 oct.
SCOTTSBLUFF	3.3 E; hwy S	3945	82h R1	
Seneca	2.2 NNW; riv S	3200	26 S1	Ltd 80 oct. Twr NNW.
★ Sidney Int.,50,SL-OH	3 W; RR N	4132	36 R1 L3 S1	Ltd 73,80 oct.
Valentine (NC)	1.5 SSE; hwy E	2579	18	Not maintained.Rough.PolesNE

SOUTH DAKOTA

Bennett Co. (Martin)	4.4 SSE; riv N	3325	30 S1	73 oct. Pole line sur fld.
Bourassa (Custer)	1 ESE; hwy N	5301	30 S2	73 oct. Poles W, NW.
Edgemont	1.1 SW	3575	30 S2	73 oct.
Hot Springs	5.5 SSE; riv N	3075	52 S2	73 oct.

WYOMING

(P) CHEYENNE	1 N; lakes WNW	6140	79h R2 L5 S6	73,80,91,100 oct. Poles W.
Hoadley (Dull Center)	9.4 NE	4176	24 S1	73,80 oct.
Mondell (New Castle)	6.2 WNW; RR N	4260	36 S2	73 oct.
(P) Pine Bluffs,44,SL-CH	4.2 WSW; RR S	5128	48 L3 S2	80 oct. Pole line N.
(P) Torrington	3.4 S; hwy W	4350	36 S1	73,91 oct. Pwr line S, W.
Wheatland,6,CX-GT	3.4 NNW; riv N	4648	46 L3 S6	80 oct.
Lusk	2.9 E;RR S	5000	47 S1	73 oct.Poles SE.

RADIO

IOWA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ATLANTIC	257 (IE)	MHT	(4)
CALIFORNIA FM	(- - - -)	FM, 333°, 18	Omaha, Nebr.
GREENWOOD FM	(- -)	FM, 146°, 23.8	Omaha, Nebr.
HANCOCK FM	(-)	FM, 73°, 30.5	Omaha, Nebr.
SIOUX CITY	335 (YX)	SBMRLZ-DT	(4)
Sioux City Airport	396 (126.18)(118.3)	AC; 337°, 1.9	(4);131.9,126.18,118.3
SLOAN FM	(- -)	FM, 157°, 8.8	Sioux City
KANSAS			
MARSHALL (Fort Riley)(Army)	215 (DFY)	SBMRAZ	
Marshall Field	396 (126.18)	CA; 196°, 4	(3); 126.18
PHILLIP BILLARD (Topeka)	278	CI	(3) (sunrise-sunset)
MISSOURI			
TARKIO	281 (TK)	MHT	(4)
NEBRASKA			
GRAND ISLAND	260 (GI)(116.1)	SBMRLZ-VDT	(4); 116.1
Grand Island AAF	278 (126.18)	CA (ILS): 165°, 1.7	(3); 126.18 (7-22)
KEARNEY (Army)	536 (DKR)	HW	
Kearney AAF	396 (126.18)	CA; 130°, 5.3	(4); 126.18 (8-17)
LINCOLN AAP	385 (HK)	SBMRLZ-DT; 170°, 2.6	(4)
MEAD FM	(- - -)	FM, 252°, 28.4	Omaha
OFFUTT (Omaha)	396 (126.18)	CA	(3); 126.18
OMAHA	320 (OH)	SBRAZ-DT	(4)
Omaha Airport	278 (126.18)	C (ILS); 146°, 0.8	(4);116.1,131.9,126.18
OVERTON	278 (OV)	MHT	(4)
SOUTH DAKOTA			
SIOUX FALLS	245 (YL)	SBRAZ-DT, 93°, 2.3	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
OMAHA, NEBR.	110.3	335	135° Mag.	IM ·····(.06)	MM	OM --(4.90)
					MMK	OMK
GRAND ISLAND AAF, NEBR.	110.3	335	349° Mag.	IM (.08)	MM ·····(1.00)	OM --(4.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IOWA

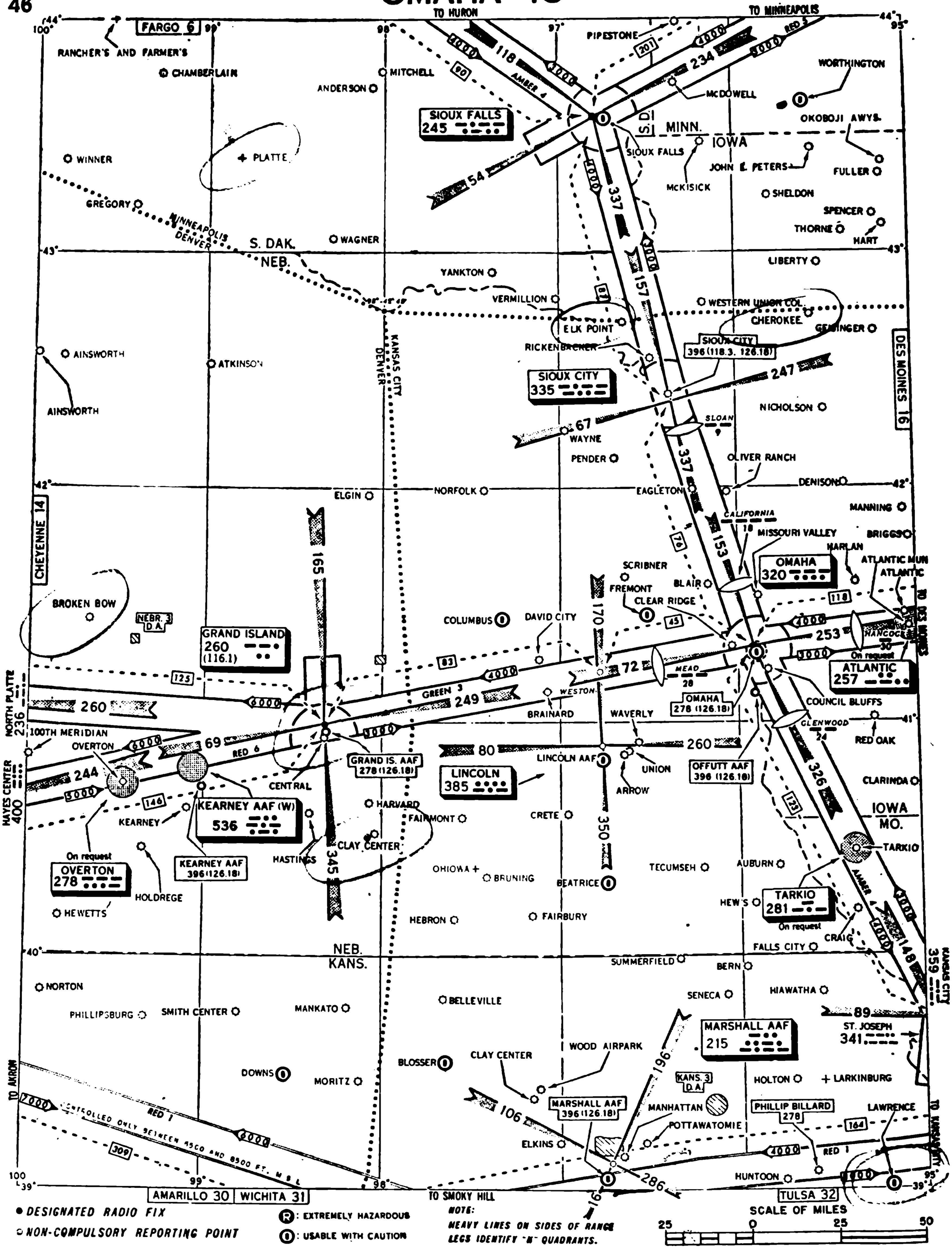
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Atlantic	4.6 NW; RR S	1353	21 S6	80,91 oct.
* mun	1.9 W; RR E	1153	33 R1 L3	Beacon 1/4 mi W.
Briggs (Viscus)	4.2 NE; RR E	1370	21 S2	80 oct. Trees N.
Clarinda	0.8 SE; RR W	1060	26 S4	80 oct.
Council Bluffs	3 SE; RR S	980	37 S6	80 oct. Bldgs SW.
Denison	2.4 WSW; riv SE	1200	20 S2	80 oct. Trees SSW.
Fuller (Milford)	0.7 NNW; hwy E	1440	36 S6	80 oct. Trees, poles E,W,S.
Geisinger (Storm Lake)	0.5 N; RR E	1240	13 S2	73 oct. Poles W,E.
Harlan	5 SSW; hwy E	1196	18 S2	73 oct.
Hart (Spencer)	1.6 S; hwy N	1100	26 S4	80 oct. Pole line NE,N.
John E. Peters (Ocheyedan)	1.5 N; hwy S	1425	24 S2	80 oct. 25' pole line S.
Liberty (Sutherland)	2.1 WSW; RR W	1465	23 S6	80 oct. 35' pole line E.
Manning	0.6 SW; RR W	1327	25 S2	73 oct.
McKisick (Rock Rapids)	3 N; riv W	1361	31 S4	80 oct. Trees W.
Missouri Valley	1.5 S; RR W	960	16 S2	80 oct.
Nicholson (Ida Grove)	1.9 WSW; RR N	1120	20 S1	80 oct.
Okoboji Airways(Spirit Lake)	2.8 SW; hwy E	1450	20 S2	80 oct. Poles NE.
Oliver Ranch (Onawa)	5 SE; hwy W	1040	26 S1	Ltd 80 oct. Trees sur fld.
Randolph (NC)	1.7 NNE; RR W	1050	20	
Red Oak	1.5 W; RR E	1044	25 S2	80 oct. Pole line N.
Sheldon	5 NNE; RR W	1444	33 S6	80 oct. Pole line S,W,SW,SE.
(A) SIOUX CITY	7 S; RR E	1097	69h R2 L5 S4	80,91 oct; 100 oct mil. acft.
(P) Spencer	2.9 WNW; RR S	1335	40 S6	80,91 oct.
Thorne (Moneta)	2.5 S	1410	25 S2	80 oct. Pole line, trees W.
(P) Western Union (Le Mars)	1.3 SW; RR SE	1190	30 S6	80 oct. Low obst.
Cherokee	1 S; RR W,S	1218	19 S1	80 oct.
KANSAS				
Belleville	1.8 WSW; hwy S	1520	24 S2	73 oct.
Bern	0.6 S; RR N	1300	26 S1	80 oct. Pwr line N.
Blosser (Concordia)	1 SSE; hwy W	1510	26 S2	80 oct.
Clay Center	1.5 W; hwy S	1200	30 S2	80 oct. Poles S, NW.
Downs	Adj SW; RR N, NW		20 S2	80 oct. Data not verified.
Elkins (Wakefield)	1 SSE; riv NE	1170	13 S1	80 oct. Poles W.
Hiawatha	1.3 WSW; RR E	1110	24 S1	80 oct. Pwr line N.
Holton	0.9 E; RR N	1020	21	Trees N.
Huntoon (Topeka)	5.4 W; riv N	1000	18 S6	80 oct. Pwr line N.
Larkinburg	9.2 E of Holton	947	13 S2	80 oct. Data not verified.
Lawrence	2.5 NNE; hwy S	840	32 L3 S6	80 oct. No beacon. Poles W. Lgts prior req.
Manhattan	5.5 WSW; RR SE	1050	31 S6	80 oct.
Mankato	0.8 ESE, RR S	1780	22 S4	73 oct.
(A) Marshall (Ft. Riley)(A)	1.8 SE	1062	45h R2 L5 S6	73,91,100 oct. Ditch E,S.
Moritz (Beloit)	1.2 NW; RR S	1420	24 S2	73 oct. Trees E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Norton	0.7 WNW; hwy E	2365	52 S3	73 oct. Pole line E, S
Phillips Mission (Topeka)	3.5 ENE; RR S	879	42h R1 L5 S6	80, 91 oct.
Phillipsburg (NC)	1.5 S; RR N	1882	33 S1	80 oct
Pottawatomie (Manhattan)	1.4 NE; RR SE	1100	20 S4	80 oct. Poles SE, NW, NE.
Seneca	0.5 W; RR S	1250	24	Poles N, S
Smith Center	1 SSW; RR NW	1806	27 S1	80 oct.
Summerfield	0.3 SSE; RR W	1450	20 S2	80 oct. Pole line N, NW.
Wood Airpark (Clay Center)	3.5 N; hwy W	1260	15 S6	80 oct. No sto. Pole line W.
MINNESOTA				
McDowell (Luverne)	8 NW; hwy W	1440	25 S4	80 oct.
Pipestone	1 SE; RR E, W	1735	20 S4	Ltd 80 oct.
Worthington	1.4 N; lake SSW	1580	26 S1	80 oct.
MISSOURI				
Craig	0.6 NE; RR SW	875	25 S1	73 oct. Pole line WNW.
Tarkio 10, KC-OH	1.2 ENE; RR W	918	40 R1 L3 S4	80 oct. Trees N.
NEBRASKA				
Ainsworth	7 WNW; RR S	2580	73h	
* mun	1 ENE; hwy S	2521	52 S5	80 oct. Pole line S.
Arrow (Lincoln)	4.8 NE; hwy E	1160	25 S6	73,80 oct.
Atkinson	14 SW; riv NE	2109	22	Trees S; pole line E,SE,N,NW.
Auburn	2.7 E; riv SW	960	29 S6	80 oct. Pole line N, NW, NE.
(P) Beatrice	3.5 N; hwy E	1260	30 S4	80 oct. Twrs S, SW.
Blair	3 NNW; RR E	1050	24 S6	80,91 oct. Windmill NW.
★ Brainard Int., 82, SL-OH	5.5 SW; hwy W	1640	31 L3	
Broken Bow	2 N	2400	30 S6	80 oct.
Bruning	7.7 E; RR N	1544	68h	
Central (Grand Island)	1.7 NE; RR S	1851	33 S6	73,80 oct. Pole lines W, S, N, E.
Clay Center	1.5 E; hwy N	1800	26 S2	73 oct.
Clear Ridge (Omaha)	5.2 NW; RR N	1230	24 S6	80 oct. Pole line E.
Columbus	1.3 NE; RR S	1445	26 S2	No fuel. Pole line SSE, SSW.
Crete	1 S; RR NE	1368	24 L3 S2	73 oct. Lgts prior req.
David City	1.5 N;hwy W	1640	22 S2	80 oct. Windmill E.
Eagleton (Decatur)	1 S; riv NE	1100	26 S2	73 oct. Poles NE; trees NW.
Elgin	0.8 SW; RR E	1930	16 S6	80 oct. Bldgs SE, N.
Fairbury	2.5 NNE; hwy W	1316	26 S6	80 oct. Pole line W, NW, S.
Fairmont (Geneva)	4.8 NE	1639	70h	
Falls City	2 SSW; riv N	910	14 S1	Ltd 80 oct. Pole line N, W.
(P) Fremont	1.4 WNW;RR's NE	1203	38h S4	80 oct. Pole line N,NE,E,SE Twr SW.
(A) Grand Island AAF (A)	3.5 NE; RR W	1843	72h R3 L5 S6	73, 91, 100 oct.
Harvard	2.5 NE	1817	76h	
Hastings	1.5 NW; RRs N,S	1940	35 S6	73 oct.
Hebron	1 S; RR W	1458	26 S4	80 oct. S approach 6:1; SW 10:1.
Hewett's (Beaver City)	2.5 NNE; hwy S	2300	40 S1	73 oct. Pole NNW, SSW, bldg N.
Hew's (Humboldt)	4.2 NNE; RR S	1200	13	Pwr line E.
Holdrege	2 NNE; creek S	2324	26 S4	80 oct.
Kearney	4.5 S; riv N	2145	15 S1	80 oct. Trees N, pole line E
(A) Kearney AAP (A)	4.5 ENE; RR S	2140	71h R2 L5 S6	73,91,100 oct. No sto. JP-1.
(A) Lincoln AAP (A)	5.5 NW;RR NE	1190	71h R1 L5	Fld lgts prior req. INACTIVE.
(P) Norfolk	3 SSW; RR W;riv N	1572	58h S4	73 oct.
(A) Offutt (Omaha)(A)	10 S; RR W	1046	61h R1 L5 S4	91,100 oct. No sto.
Ohiowa	3 SW	1572	20	Fence sur fld. Data unverified.
Omaha	3.5 NE; lake W	977	54h R3 L6 S6	73,80,91,100 oct. No contact lgts.
100th Meridian (Cozad)	0.8 SW; RR N	2490	22 S1	80 oct. Pole line E.
★ Overton Int., 69, SL-OH	4.8 E; RR S	2300	40 R1 L3	Bldgs, trees NW; poles NE.
Pender	1 NE; RR SW	1400	22 S2	73 oct. Pole line S, SE.
Scribner	4.1 SSE; hwy N	1315	67h	
Steckley (Weeping Water)	3 S; RR, rd E	1260	26	Pole line N.
Tecumseh	1 W; RR NE	1115	26 S2	80 oct. Trees W, pole line N.
Union (Lincoln)	4.8 NNE; RR S	1140	18h L3 S6	80,91 oct. All lgts prior req.
(P) Wayne	1.8 E; RR N	1475	33 S4	80 oct. Pole line NW.
Waverly (Lincoln)	9 NE; RR SE	1180	20	Poles SE, SSW.
Lexington	1 W; RR S	2400	32 S5	Data unverified.
SOUTH DAKOTA				
Anderson (Mitchell)	2.7 W, RR N	1293	29 S6	80 oct. Poles sur fld
Chamberlain	3.4 SE; hwy N	1689	26 S2	73,80 oct. Poles N, NW.
Elk Point	2.4 E; riv NE	1120	26 S2	80 oct. Poles N, NW.
Oregory	2.2 S; RR NE	2000	22 S1	73 oct. Pole line E, SE.
Mitchell	4 N; hwy E	1292	67h	
Rancher's & Farmer's(Reliance)	9 N; rd N, S		30	Data unverified
Rickenbacker (Stevens)	1 N; riv E	1114	28 S6	80,91 oct.
SIOUX FALLS MUNICIPAL	2.5 NNW; RR E	1420	57h R1 L5 S3	80,91 oct. Contact lgts prior req.
Vermillion	3.8 WNW; RR NE	1140	25 S2	80 oct. Poles N.
Wagner	1.3 S; RR N	1464	30 S1	80 oct. Poles E, NW.
Winner	1.3 NE; RR SW	1960	26 S1	80 oct.
(P) Yankton	2.3 N; hwy W	1400	37 S6	80 oct. Twr E.
Platte	1.4 NE	1612	24 S1	80 oct. Data not verified.

OMAHA 15


TO HURON
TO MINNEAPOLIS
FARGO 6
RANCHER'S AND FARMER'S
CHAMBERLAIN
MITCHELL
ANDERSON
SIOUX FALLS 245
PIPESTONE
WORTHINGTON
McDOWELL
OKOBOJI AWYS.
MINN.
IOWA
SIOUX FALLS
JOHN E. PETERS
FULLER
McKISICK
SHELDON
SPENCER
THORNE
HART
WINNER
PLATTE
GREGORY
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S. DAK.
NEB.
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PENDER
OLIVER RANCH
DENISON
ELGIN
NORFOLK
EAGLETON
MANNING
CALIFORNIA
MISSOURI VALLEY
BRIGGS
HARLAN
ATLANTIC MUN
ATLANTIC
SCRIBNER
FREMONT
BLAIR
OMAHA 320
CLEAR RIDGE
CHEYENNE 14
BROKEN BOW
NEBR. 3 D.A.
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DAVID CITY
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GLENWOOD
RED OAK
NORTH PLATTE
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CRAIG
AMBER 4
FALLS CITY
NEB.
KANS.
SUMMERFIELD
BERN
NORTON
PHILLIPSBURG
SMITH CENTER
MANKATO
BELLEVILLE
SENECA
HIAWATHA
MARSHALL AAF 215
ST. JOSEPH 341
BLOSSER
CLAY CENTER
WOOD AIRPARK
DOWNS
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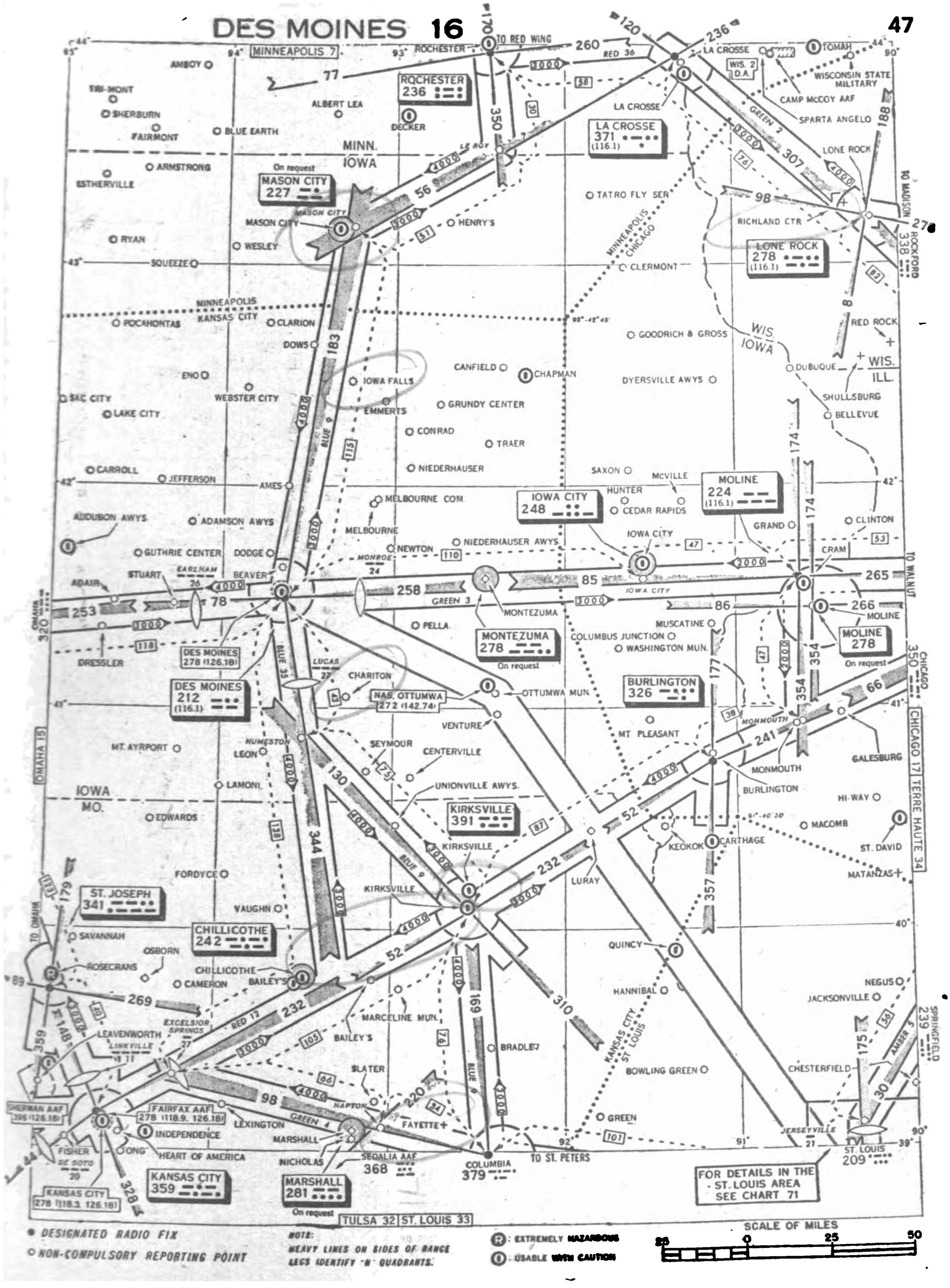
MARSHALL AAF 396 (126.18)
MANHATTAN
PHILLIP BILLARD 278
LAWRENCE
POTTAWATOMIE
ELKINS
HUNTOON
TO AKRON
CONTROLLED ONLY BETWEEN 4500 AND 8500 FT. M.S.L.
TO SMOKY HILL
TO KANSAS CITY
AMARILLO 30
WICHITA 31
TULSA 32
KANSAS CITY 359
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
SCALE OF MILES
25 0 25 50


DES MOINES
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CAMP McCOY AAF
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WIS.
IOWA
DUBUQUE
WIS.
ILL.
RED ROCK
SHULLSBURG
BELLEVUE
CONRAD
TRAER
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MELBOURNE
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CLINTON
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MONTEZUMA
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WASHINGTON MUN.
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LUCAS
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CHARITON
DES MOINES
212
(116.1)
NAS. OTTUMWA
272 (142.74)
OTTUMWA MUN.
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MONMOUTH
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MT PLEASANT
VENTURE
SEYMOUR
CENTERVILLE
HUMESTON
LEON
MT. AYRPORT
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IOWA
MO.
EDWARDS
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KIRKSVILLE
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GALESBURG
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KEOKOK
CARTHAGE
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CHICAGO
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FORDYCE
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KIRKSVILLE
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OSBORN
ROSECRANS
CHILLICOTHE
CAMERON
BAILEY'S
QUINCY
NEGUS
JACKSONVILLE
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MARCELINE MUN.
BAILEY'S
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KANSAS CITY
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BOWLING GREEN
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LEAVENWORTH
LINKVILLE
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RED 12
SLATER
NAPTON
GREEN 4
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LEXINGTON
MARSHALL
FAYETTE
GREEN
SHERMAN AAF
FAIRFAX AAF
278 (118.9, 126.18)
INDEPENDENCE
FISHER
DE SOTO
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ONG
HEART OF AMERICA
NICHOLAS
SEDALIA AAF
368
COLUMBIA
379
TO ST. PETERS
JERSEYVILLE
ST. LOUIS
209
KANSAS CITY
359
KANSAS CITY
278 (118.3, 126.18)
MARSHALL
281
On request
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 71
TULSA 32
ST. LOUIS 33
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
25 0 25 50

DES MOINES 16

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.,GUARD,HRS. OF OPER.,REMARKS
JERSEYVILLE FM	(-)	FM, 355°,21	St. Louis, Mo.
MOLINE	224(MO)(116.1)	SBRAZ-VDT,142°,12	(4), 116.1
Moline Airport	278	ML, 86°, 2.3	3105 (on req)

IOWA

BURLINGTON	326 (BN)	SBRAZ-DT,357°,1.8	(4)
DES MOINES	212 (DM)(116.1)	SBRAZ-VDT	(4), 116.1
Des Moines Arpt.	278 (126.18)	C, 344°, 2	(4),116.1,131.9,126.18
EARLHAM FM	(- - - -)	FM, 258°, 26.3	Des Moines
IOWA CITY	248 (IX)	BHT	(4)
LUCAS FM	(- - -)	FM, 164°, 27.2	Des Moines
MASON CITY	227 (NM)	MHT	(4) oper cont.
MONROE FM	(- -)	FM, 78°, 23.5	Des Moines
MONTEZUMA(Int)	278 (MZ)	MHT	(4)
OTTUMWA NAS	272 (142.74)	CN	(3), 142.74

KANSAS

FAIRFAX (Kansas City)	278 (126.18) (118.9)	C	(4),126.18,131.9,118.9
SHERMAN (Ft. Leavenworth)	396 (126.18)	CA	(3),126.18 cont.except Sun.(23-7)

MINNESOTA

ROCHESTER	236 (RR)	BMRLZ-DT,350°,2.5	(4)

MISSOURI

CHILLICOTHE(Int)	242 (CK)	MHT	(4)
EXCELSIOR SPRGS FM	(-)	FM, 52°, 27	Kansas City
KANSAS CITY	359 (KC)	SBRAZ-DTX	(4)
Kansas City Arpt.	278 (126.18) (118.3)	AC (ILS),148°,3	(4), 116.1,131.9,126.18, 118.3
KIRKSVILLE	391 (KR)	BMRLZ-DT,333°,0.9	(4)
LINKVILLE FM	(- - - -)	FM, 328°, 11.4	Kansas City
MARSHALL (Int)	281 (MH)	MHT	(4)
ST. JOSEPH (Rosecrans)	341 (ZJ)	SBMRLZ-DT,359°, 3.7	(4)

WISCONSIN

LA CROSSE(Int)	371(LE)(116.1)	SBRAZ-VDT,127°,1.8	(4), 116.1
LONE ROCK (Int.)	278(LK)(116.1)	BMLZ-VDT,98°, 0	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KANSAS CITY, MO.	109.9	333.8	171° Mag	IM ·····(.01)	MM	OM - - (4.65)
					MMK 221-···-(2.6)	OMK 248-··-(11.0)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; **Parenthetical Numbers** in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

ILLINOIS

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Carthage	1.5 SSW,RR E	665	19	Pole line NE, E.
★ Chesterfield Int, 4, LS-CG	3 ENE,hwy N	612	26 L3	
Galesburg	1.7 NW,RR SSW	788	27h L3 S6	80 oct.Fld lgts prior req.Trees SW, NE.
Hi-Way(Fiatt)	1.3 NW,RR E	665	20 S1	80 oct.35' poleline S,E.
Jacksonville	3.9 S,hwy E	650	19 S4	80 oct.Trees SW.
Macomb	2.4 E,hwy E	695	23 S6	73,80 oct. No sto.
Matanzas(Havana)	4 S,riv W	480	24 S2	80 oct.Data not verif.
MOLINE	4 S,hwy E	590	40h R1 L3 S6	73,80,91,100 oct.
Monmouth	1.5 NNE,rd E	770	31 L1 S6	80 oct.Poleline E,W,S.
Negus(Alexander)	2.8 WNW,RR SE	645	22	PRIVATE.
Quincy	2.8 SE,hwy E	650	26 S4	80 oct.
St. David	1.5 SW,hwy N	628	22 S2	80 oct.Lgt acft only.

IOWA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adair	1.5 SSE,RR NW	1100	18 S1	Ltd 73 oct,Trees S.
Adamson Airways	4.8 WSW,hwy N	1000	17 S6	80 oct. (Perry)
Ames	2.5 SSW,RR NW	920	28 S6	80 oct.Lgt acft only.
Armstrong	3.2 NW,hwy S	1250	22 S1	Ltd 80 oct.Trees E.
Audubon Arwys	1 SSE,RR W	1300	15 S1	80 oct. (Audubon)
Beaver	3.4 NW	900	25 S6	80 oct. (Des Moines)
Bellevue	3 N,RR W	652	19 S1	80 oct.
(P)BURLINGTON	1.7 SSW,hwy E	698	54h R1 L5 S6	80,91 oct.
(P)Canfield(Waterloo)	3.5 NW,RR NE	800	32 S6	87 oct.Pole line N
Carroll	4.2 ESE,RR N	1196	34 S2	80 oct.
(P)Cedar Rapids	6.7 SSW,RR E	860	55h L5 S1	80, 91 oct.
Centerville	3.5 SSW, RR N	1017	25 S2	80 oct.Use strips only.
Chapman(Waterloo)	5 E,RR NW	870	33 S6	80 oct.Poleline S.
Charlton C.A.P.	2.3 NNE,RR SE	1050	16 S1	80 oct.
Clarion	1.1 NW	1162	27 S6	80 oct.
Clermont	0.8 S,riv W	800	21 S6	80 oct.Poleline SE,NE.
Clinton	6.2 WSW,RR S	700	27 S6	80 oct. No sto.
Columbus Jct.	3 N,RR E	580	28 S2	80 oct.Poleline N,E,NE.
Conrad	3 WNW,RR S	1000	23 S2	80 oct.27' bldg E.
Cram (Davenport)	2.5 NW,RR SW	646	21 S6	80,91,100 oct.
Creston Arwys	1.6 NE, RR W	1320		UNUSABLE.(NC)
(A)DES MOINES	4.5 SSW,RR W	950	52h R2 L5 S4	80,91 oct.; 100 oct. Army
Dodge (Grimes)	3.5 E,hwy,RR E	835	27 S6	80 oct.
Dows	1.5 SSE,RR NE	1144	26 S2	80 oct.
Dressler(Anita)	7 SSE,rd W	1250	17 S2	80 oct.Trees S.
Dubuque	1.9 NE,riv E	602	27 S6	80 oct.Poles SE,NW.
Dyersv'l Arwys (Dyersville)	0.8 S, RR NE	940	16 S1	80 oct.Pwrlines NW,NE
Elliot Fly.Svc.	Adj S	550	Unl. S1	80 oct. (Davenport) (NC)
Emmerts(Eldora)	2.8 NE,lake SW	1000	32 S6	80 oct. Poles NW,SE
Eno(Ft.Dodge)	2.5 E,hwy W	1126	27 S6	91 oct.
(P)Estherville	3.5 E,hwy S	1298	35 S6	80 oct.Poles SE,S,SW.
Goodrich&Gross (Strawberry Pt.)	3.5 W,RR NE	1200	19 S1	Ltd 80 oct.
Grand Mound	1.2 SW,RR N	770	20 S2	80 oct. (Grand)
Grundy Center	1.3 ENE,RR S	990	18 S1	80 oct.Pole line S.
Guthrie Center	0.5 NW,riv E	1074	21 S1	80 oct.
Henry's(Floyd)	5 NNE,RR W	1110	14 S1	80 oct.Poles ENE.Steep sloped strips.
(P)Hunter (Cedar Rapids)	3 S, riv N	732	27 L3 S6	80,91 oct.Fld lgts prior req. Poles S, E.
(P)IOWA CITY	1.7 SW, riv E	650	40h R1 L3 S6	80, 91 oct. No std.
Iowa Falls	4.1 S, RR E	1140	24 S2	80 oct.
Jefferson	0.8 NNW,RR S	1052	23 S6	80 oct.No sto.Poleline
Keokuk	4.6 NNW,riv E	670	27 S1	Ltd 80 oct. N.
Lake City	3.5 NNE, RR S	1200	26 S1	80 oct.
★ Lamoni Int,10, KC-MP	3 WNW, RR NE	1163	37 L3 S2	73 oct.
Leon	4.1 N, RR SE	1050	20 S2	80 oct.
McVille (Mechanicsv'l)	3.2 WNW,RR S	850	30 S6	80 oct. Poles S,W.
MASON CITY	2 W,hwy S	1215	56h R1 L5 S6	80,91,100 oct. Poles SSE
Melbourne	1.5 SW	1000	20 S1	80 oct.Poles N.
Melbourne com.	0.3 S,RR E	1000	21 S2	80 oct. Pole line E.
★ Montezuma Int, 17, OH-CG	3 E,hwy N	953	32 R1 L3	Poles, trees SW. Pwr line N.
Mt.Ayrport (Mt. Ayr)	6.6 N, RR N	1100	21 S1	Ltd 80 oct.Poles N,NE
Mt. Pleasant	2.6 ESE,RR N	727	19 S2	80 oct.
Muscatine	6 SW,RR SE	546	36 L3 S6	80 oct.
Newton	1.5 ENE,hwy S	950	19 S1	80 oct.
Niederhauser	2.3 N, hwy E	890	30 S6	80 oct.(Marshalltown)
Niederhauser Arwys(Grinnell)	4.5 E	1000	26 S2	80 oct.
Ottumwa	3.6 N,hwy W,S	830	32 S6	80, 91 oct.
(N)Ottumwa NAS	6.4 NNW	841	52h R1 L5 S6	73, 91 oct. (N)
Pella	3.5 SE,RR N	877	24 S6	80 oct.
Pocahontas	0.8 E	1216	25	Pole line SW.
Ryan (Emmetsbg)	1.3 W,RR N	1225	18 S2	80 oct.Trees NW.
Sac City	3 SSE,riv W	1160	19 S2	80 oct.
Saxon(Ced.Rpds)	7 NE,hwy S	880	31 S6	80 oct.Trees E,SE.
Seymour	2 NNW,RR S	1060	24 S1	80 oct. Hedge S.
Squeeze(Algona)	5 S,riv S	1201	26 S2	80 oct.Pole line NW,W
★ Stuart Int,8,OH-CG	3.5 SE,rd E	1189	31 L3	Pole line NE,E.

IOWA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Tatro Fly.Svc.	2.6 NW,riv W	918	26 S2	80 oct. (Decorah)
Traer	1 ENE,RR SW	895	18 S2	80 oct.Pole line E.
Venture(Ottumwa)	2.8 SSE,RR W	800	13 S6	80 oct.Poleline N,W,NE.
Washington	1.5 SSE,RR NE	769	25 S6	80 oct.
Webster City	3.3 SW,riv E	1100	26 S4	80 oct. No sto.
Wesley	1.5 E,RR N	1250	31 S1	80 oct. Poleline N,S.

KANSAS

(A)Fairfax (Kans.Cy)	3 NE,RR E	742	65h R1 L5S4	91, 100 oct. (A)
Fisher	1 ESE,RR N	770	26 S6	80 oct.(Edwardsville)
Leavenworth Lecompton	3.6 WSW,RR E	1125	14 S4	80 oct.No sto.Trees, bldg S.
(A)Sherman(Ft. Leavenworth)	1 NNE,RR W	771	60 R1 L5 S4	73, 91, 100 oct. (A)

MINNESOTA

(P)Albert Lea	2.3 N, RR E	1255	32 S6	80 oct.No sto.Poleline
Amboy	1 NNE, RR W	1000	24 S1	80 oct. N.
Blue Earth	3 S,RR E	1111	23 S1	80 oct.Poleline E.
Decker(Austin)	1.7 E,hwy N	1224	26 S4	73 oct.Obsts sur fld.
Fairmont	3.1 S,hwy W	1190	24 S1	80 oct.Poleline W.
ROCHESTER	1.7 SSE,RR W	1040	43h R1 L4 S6	80,91 oct.Poleline E,N
Sherburn	2 WNW,RRs S,E	1300	21 S2	80 oct.Pwr line ESE.
Tri-Mont	0.9 S,RR W,E	1250	22	(Triumph)

MISSOURI

Bailey's (Brookfield)	2 WSW,RR N	800	20 S2	80 oct.Pwr line SE.
Bailey's (Chillicothe)	2 SSE,RR W	675	27 S6	80 oct.Poles S.
Bowling Green	1.6 NW,RR E	882	25 S2	80 oct.Poles S,pwrline
(P)Bradley(Moberly)	3 NNE,hwy W	865	37h S6	80 oct.Obsts. SE.
Cameron	2 E,RR NW	1050	21 S4	73 oct.Pwr line N.
★ Chillicothe Int, 7, KC-CG	3 E	781	25h R1 L3	Pole line S,trees SW.
Edwards	1.2 ENE,RR W	920	17 S1	Ltd 80 oct.(Grant City)
Fayette	1.5 S	660	28 S2	80 oct.Data unverified.
Fordyce(Bethany)	4.8 ESE,RR WNW	1050	22 S1	80 oct.
Green(Mexico)	4.3 ESE,RR S	815	36 S6	80 oct.Trees SE.
Hannibal	4.3 WNW,hwy N	735	28 S6	80 oct.Poleline SW.
Heart of America (Kansas City)	4 E,RR E	759	23 S6	80 oct.Poles,trees S.
Independence	5.8 ESE,RR S	825	23 S6	80 oct.Poles S.
KANSAS CITY	2.5 NW,riv W,S	739	52h R3 L6 S6	80,91,100 oct.Poles E,
Kirksville Arpk	Adj SE	927	26 S2	80 oct. dike W.
" 12, KC-CG	7 SE,hwy NE	970	39h R1 L3 S6	91, 80 oct.
Lexington	3 WNW,RR NW	650	33 S6	73 oct.Poleline S,W,SW
★ Luray Int,16,	1.9 ESE,hwy N	727	26 L3	KC-CG
Marceline	1.5 N,RR SE	855	20	Pole line NNE.
★ Marshall Int,7, KC-LS	1.8 S,hwy E	800	39 R1 L3 S2	80 oct.Silo NE corner
Maryville (NC)	2.2 WNW,RR N	1154	25	
Nicholas(Marshall)	3.8 S,hwy W	770	26 S4	80 oct.Pwr line S.
★ Osborn Int,4,	1.5 NW, hwy S	1046	32 L3	KC-MP
Rosecrans	4 NW,riv S	821	60h R1	(St. Joseph)
Savannah	1.3 E, RR W	1025	13 S1	Ltd 80 oct.
Slater	0.8 NW,hwy SE	850	26	Pole line adj N.
Unionville Arwys	1.5 ESE,hwy NE	1100	24 S2	80 oct.Pole line N.
Vaughn(Trenton)	1.2 NNW,RR E	790	26 S1	Ltd 80 oct.

WISCONSIN

(A)Camp McCoy(A)	2.6 E Sparta	830	38h	RR W
(P)La Crosse	5 NNW,bet rivs	653	53h L5 S4	80, 91 oct.
★ " Int,23A,	8 NNW,RR NE	667	37 R1 L3	Pole E.(CG-Twin Cys)
★ Lone Rock Int, 15,CG-Twin Cys	2 N,rd W,N	714	39 R1 L3 S2	Ltd 80 oct,Poleline NE
Red Rock (Darlington)	5 SE,RR E		12 S1	80 oct.Data not verif.
Richland Center	6 SSE,hwy W		23 S1	80 oct.Trees E,S.Data not verified
Shullsburg	0.5 S	1000	18 S1	80 oct.Trees SW.Data not verified.
Sparta-Angelo	2.2 NE,RR E	800	25 S1	80 oct. Poles sur fld.
Tomah	1 E,RR N	970	18 S1	73 oct. 180' hill E.
(P)Wisconsin State Military	1 N, RR SW	915	31h	(Camp Douglas)

RADIO — ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
BRADFORD (Int.)	382 (MQ)	MHT	(4)
CHICAGO	350 (CG)	SBRAZ-DTX,152°,2.2	(4)
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
GLENVIEW (Navy) Glenview NAS	269 (NBU) 236 (142.74) (140.58)	MLZ-DT CN, 140°, 3	(3): 140.58,142.74 (3);142.74,140.58;3117.5 on req.
HARVEY (Rubinkam)	385 (GH)	MLWZ, 90°, 2.2	
JOLIET	257 (JO)(116.1)	SBRAZ-VDT,126°,3.6	(4); 116.1
NEWARK FM	(- - -)	FM, 246°, 49	Chicago
PEORIA	356 (PI)	SBMRAZ-DT,178°,2.3	(4)
ROCKFORD (Machesney)	338 (RD)(116.1)	SBRAZ-VDT, 45°,1.8	(4); 116.1
INDIANA			
LOWELL FM	(. - -)	FM, 152°, 40	Chicago
McCOOL (Int.)	359 (ML)(116.1)	MHVT	(4): 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen
WISCONSIN			
GENERAL MITCHELL (Milwaukee)	278	C	(4)
GENESEE FM	(- - -)	FM, 279°, 25.3	Milwaukee
KENOSHA FM	(- -)	FM, 178°, 24.7	Milwaukee
MADISON (Truax)	400 (MA)	BMLZ-DT, 314°,2.6	(4)
MILWAUKEE (Gen'l Mitchell)	242 (MK)	SBRAZ-DT,352°,2.4	(4)

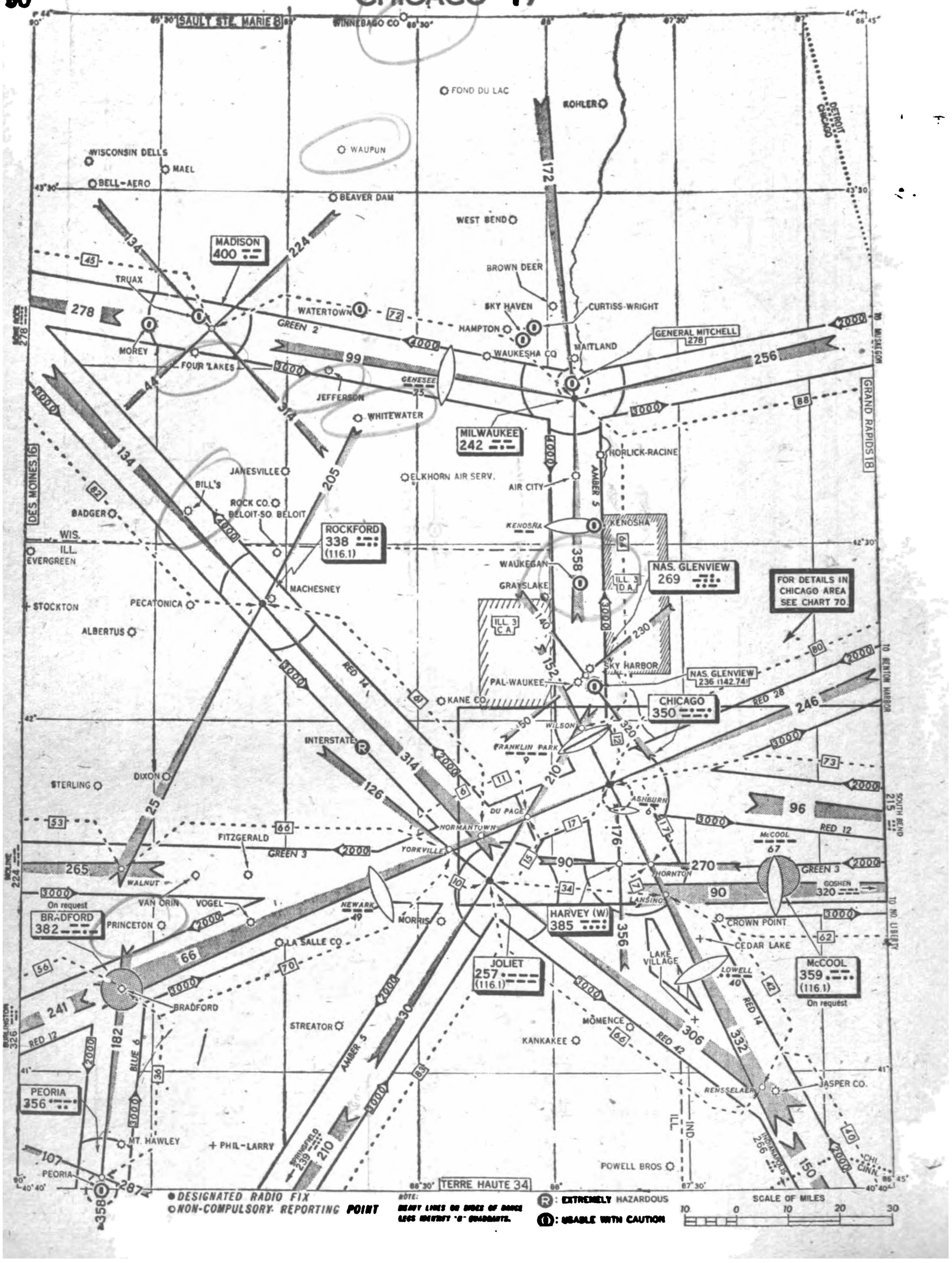
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ILLINOIS

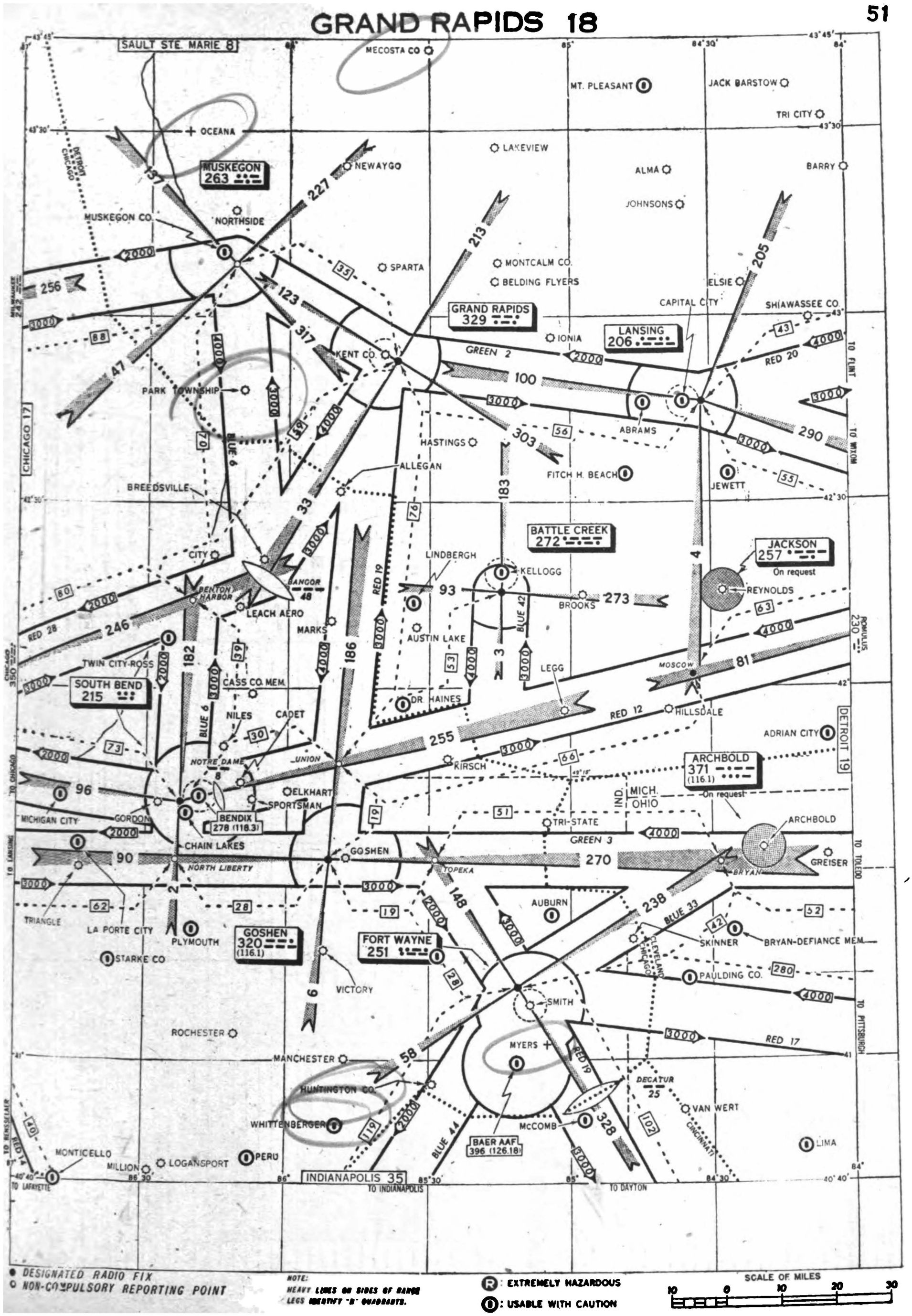
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertus (Freeport)	3.8 SE;RR S,W	740	33 S4	73 oct. Tank S.
Beloit-S.Beloit(S.Beloit)	1 S;RR E	772	35 S6	80 oct.Use strips.Pole line W.
★ Bradford Int,29,KC-CG	4.5 NNE	795	26 R1 L3 S1	80 oct. Pole line SW, NE.
Dixon	1.9 ESE;RR S	786	26 L3 S6	73 oct.No bndry lgts.Poles S,N.
Evergreen (Warren)	1.4 SSE;hwy S	1000	26 S1	80 oct. Trees W.
Fitzgerald (Mendota)	1.5 NW;lake E	800	22 S6	80 oct.Trees E.
(N) Glenview NAS (N)	1.6 NW;RR W,E	654	63h R2 L3 S6	91,100 oct. No sto. NAFC
Grayslake	1.1 ENE;rd W	791	26	Trees W, S, E.
Interstate (De Kalb)	1.8 E;RR W	900.	42h	
Kane County (Elgin)	7 WNW;hwy E	910	22 S4	80 oct.Pole line E.
Kankakee	3.2 WSW;hwy E	625	26 S4	73,80 oct.Use strips only.Ditch N.
Kiswaukee(Sycamore)	2.1 SW;rd E	830	18	(NC)
La Salle Co.(Utica)	1.8 NNW;hwy S	619	12 S2	80 oct. Poles NE.
Machesney,7,CG-Twin Cities (Rockford)	6 NNE;riv W	735	29 R1 L4 S6	73,80 oct. Pole line E.
Momence	3.5 SW;riv NW	645	23 S2	80 oct.Trees N,NW,NE.Riv N.
Morris	4.5 N;hwy W	590	21 S2	73 oct.Poles N,NNE.
Mt.Hawley (Peoria)	6.4 N;rds E,S	700	28 S6	80 oct.Pole line S, E.
Pal-Waukee(Glenview)	5.5 WNW;RR S	642	26 L3 S6	80,91 oct. Pole line N
Pecatonica	1 N;hwy E	750	24 S1	73 oct.Poles E.
PEORIA	4.8 WSW;rd E	659	44h R1 L1 S6	80,91 oct.Trees W,bldgs NE.
Phil-Larry (Peoria)	18 ENE		23 S1	80 oct. Data not verified.
Powell Bros.(Sheldon)	2.2 S;hwy NE	650	20 S2	80 oct.
Sky Harbor (Northbrook)	1.6 NW;RR SE	680	26 S6	80, 91 oct.
Sterling	1.4 NW;hwy E	645	25 L3 S4	80 oct.No bcn.Lgts prior req.
Stockton	2.3 SSE	940	18 S1	80 oct.Data not verified.
Streator Air Service	2 ENE;hwy S	650	26 S4	80 oct.Pole line E.
★ Van Orin Int,34,OH-CG	1 ENE;RR S	828	33 L3	Poles W.
Vogel (La Salle)	6.5 NNW;RR E	664	26 S2	80,90 oct.Soft when wet.Poles N,W.
Waukegan	3.5 NW;hwy E	600	22 L1 S5	80 oct. Bldg SE.
Will Co. (Steger)	0.5 S;RR W	740	15	Pole line S.
Princeton	8 N;creek N		18 S2	80 oct.Data unverified.
INDIANA				
Cedar Lake	1.5 NNW;lake E	751	28 S4	73,80 oct.Data not verified.
Crown Point	1 N		30 S1	80 oct.Pole line E.Data not verified.
Jasper Co.(Rensselaer)	1.5 WNW;RR NE	676	28 L3	Pole line S; twr SW.
Lake Village	1 NW;hwy S	650	22 S2	80 oct. Data not verified.
WISCONSIN				
Air City(Sturtevant)	0.6 SE;RR E	633	25 S4	80 oct. Pole line NW.
Badger (Monroe)	1.8 SW;RR N	1080	20 S1	80 oct.
Beaver Dam Inc.	2 N;lake W	914	15 S1	80 oct.
Bell-Aero Service	4 NNW;hwy W	980	21 S4	80 oct. (Baraboo)
Brown Deer(Milwaukee)	10 NNW;RR E	681	20 L S4	80 oct.No sto.Pole lines N.
Curtis-Wright	9 NW;riv SW	750	28 S6	80 oct. (Milwaukee)
Elkhorn Air Service	1.5 N;hwy E	1000	13 S1	80 oct.Rough and rolling.
Fond du Lac	2.6 ENE	769	26 S2	80 oct. 50' hi-line N.Lake WNW.
(A) GENERAL MITCHELL (Milwaukee)	6 S;RR E	675	50h R2 L4 S6	73-100 oct. INACTIVE
Hampton (Marcy)	1.6 W;RR N	860	17	Poles S, trees N.
Horlick-Racine(Horlick)	2 N;RRs E,W	665	25h L1 S6	80,91 oct. Trees N, SE.
Janesville	1.8 NNE;RRs NW	880	26 S4	80 oct.No sto. 51' twr SE.
Kenosha	2 S;RR W	623	29 L S6	80, 91 oct.Flood lgts.
(P) Kohler	1 N;hwy S	647	30 L4 S6	80 oct.Lgts prior req.Obsts sur fld.
Mael (Portage)	1.6 NW;lake SE	820	26 S6	80 oct.Obsts sur fld.
Maitland(Milwaukee)	3 ESE;hwy W	590	25 S6	80,91 oct. Stack S.
Morey (Madison)	9 WNW;hwy E	928	34 S6	80 oct.30' pole line S.
(P) Rock Co.(Janesville)	4.5 SSW;RR W	807	54h L5 S2	80, 91 oct.
Skyhaven (Milwaukee)	10.5 WNW	800	26 S1	80 oct.Pole line N,trees E, S.
(A) TRUAX(Madison)	5 NE;hwy E	858	60h R1 L5 S2	73,91,100 oct. Fld lgts & svcg not avail.
Watertown	1.2 S;riv W	820	24 S2	80 oct. Bldg W. 2430-0730. INACTIVE
Waukesha County	1.8 N;rd jct NW	904	31 S6	80 oct. Pole line S.
West Bend	2.5 E;riv S	880	20 L3 S6	80 oct. Poles sur fld.
(P) Winnebago Co.(Oshkosh)	2 SSW;RR NE	776	28h L1 S4	80 oct.No sto.Pole line NE,N,W.
Wisconsin Dells-Lake Delton(Lake Delton)	0.8 SE;riv NW	910	24 S6	80 oct.2 hills SW;trees,pole line NW,NE, and SE.
Waupun	3.5 W;RR E	912	14 S2	80 oct.
Bill's (Broadhead)	1.8 S;riv S,W	780	23 S1	80 oct.
Jefferson	1.7 WSW;RR E	800	13	Pole line N.
Whitewater	2 N;RR S	810	20 S1	80 oct.Poleline E,ENE,ESE;ridge E.
(P) Four Lakes (Madison)	3 SSE;lake N	881	30 S6	80 oct.Obst.lgts prior req.
Jackson (Madison)	3 WNW	849	Unl S2	80 oct.Dock;float.
Milwaukee	3 ESE;hwy W	585	185 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

CHICAGO 17


SAULT STE. MARIE 8
WINNEBAGO CO
FOND DU LAC
ROHLER
DETROIT
CHICAGO
WISCONSIN DELLS
MAEL
BELL-AERO
WAUPUN
BEAVER DAM
WEST BEND
MADISON
400
134
224
45
TRUAX
BROWN DEER
278
WATERTOWN
72
SKY HAVEN
CURTISS-WRIGHT
HAMPTON
GREEN 2
4000
99
WAUKESHA CO
MAITLAND
GENERAL MITCHELL
278
256
MOREY
FOUR LAKES
44
JEFFERSON
GENESEE
25
314
WHITEWATER
MILWAUKEE
242
HORLICK-RACINE
GRAND RAPIDS 18
88
DES MOINES 16
JANESVILLE
BILL'S
ELKHORN AIR SERV.
AIR CITY
AMBER 5
205
82
BADGER
ROCK CO.
BELOIT-SO BELOIT
KENOSHA
KENOSHA
WIS.
ILL.
EVERGREEN
ROCKFORD
338
(116.1)
WAUKEGAN
358
NAS. GLENVIEW
269
ILL 3
D A
FOR DETAILS IN
CHICAGO AREA
SEE CHART 70.
GRAYSLAKE
MACHESNEY
STOCKTON
PECATONICA
ALBERTUS
ILL 3
C A
140
230
80
SKY HARBOR
152
PAL-WAUKEE
NAS. GLENVIEW
236 (142.74)
RED 14
61
KANE CO.
CHICAGO
350
RED 28
246
WILSON
50
320
12
INTERSTATE
FRANKLIN PARK
3000
73
2000
DIXON
STERLING
11
6
210
ASHBURN
DU PAGE
96
RED 12
53
66
FITZGERALD
GREEN 3
YORKVILLE
NORMANTOWN
17
15
90
176
270
McCOOL
67
265
WALNUT
10
34
LANSING
GOSHEN
320
90
VAN ORIN
VOGEL
NEWARK
49
MORRIS
HARVEY (W)
385
356
CROWN POINT
62
On request
BRADFORD
382
PRINCETON
LA SALLE CO
56
70
CEDAR LAKE
LAKE
VILLAGE
LOWELL
40
42
McCOOL
359
(116.1)
On request
66
241
BRADFORD
STREATOR
AMBER 5
30
MOMENCE
KANKAKEE
66
RED 42
306
332
RED 14
RED 12
182
BLUE 6
36
83
RENSSELAER
JASPER CO.
PEORIA
356
MT. HAWLEY
PHIL-LARRY
107
PEORIA
287
358
SPRINGFIELD
239
210
ILL
IND
POWELL BROS
INDIANAPOLIS
266
150
40
TERRE HAUTE 34
88°30'
88°
87°30'
42°30'
42°
41°
40°40'
90°
44°45'
43°30'
TO MUSKEGON
TO BENTON HARBOR
TO NO. LIBERTY
SOUTH BEND
215
MOLINE
224
BURLINGTON
326
ROCK
278
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON EDGES OF BASIC
LESS IDENTIFY "G" QUADRANTS.
R: EXTREMELY HAZARDOUS
(1): USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

GRAND RAPIDS 18



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

RADIO

INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAER, FORT WAYNE	396 (126.18)	CA(ILS)	(3);142.74,126.18
BENDIX, (South Bend)	278 (118.3)	C	(4);118.3,126.18,131.9
DECATUR FM	(- -)	FM, 148°, 24.7	Ft. Wayne
FORT WAYNE (Saltr.)	251 (FW)	BMRLZ-DT,148°,3.4	(4)
GOSHEN	320(00)(116.1)	SBRAZ-VDT,89°,2.7	(4); 116.1
SOUTH BEND (Bendix)	215 (SN)	SBMRAZ-DT,75°,3.3	(4)

MICHIGAN

BANGOR FM	(- - -)	FM 213°, 48	Grand Rapids
BATTLE CREEK (Kellogg)	272 (JC)	BMLZ-DT,3°,3.2	(4)
GRAND RAPIDS (Kent County)	329 (GR)	BMRLZ-DT,343°,2.2	(4)
JACKSON (Reynolds)	257 (JN)	MHT	(4)
LANSING (Capital City)	206 (LJ)	SBMRAZ-DT,280°,3	(4)
MUSKEGON (Muskegon County)	263 (UK)	BMLZ-DT,317°,2.8	(4)

OHIO

ARCHBOLD (Int)	371(YV)(116.1)	MHVT	(4); 116.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
BAER, INC.	110.3		314° Mag.	IM	(.05)	MM ····· (1.05)		OM -- (4.55)	
						MMK		OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

INDIANA

AIRPORT — CITY NAME	LOCATION	EL.	CLASS	REMARKS
Auburn	1.3 NNW;RR E	872	27 S2	73,80 oct.Trees sur fld.
(A) BAER (FORT WAYNE)(A)	7 SSW;RR E	798	63h R3	INACTIVE
(A) BENDIX (SOUTH BEND)	3.5 NW;hwy S	778	48h R2 L3 S6	80-100 oct.Poleline S,N.ARMY
Cadet (South Bend)	6.5 NE;RR E	730	33 S4	80 oct.Twr W;poleline E.INACTIVE
Chain Lakes (South Bend)	5.2 W;hwy N,S	765	22 S3	80 oct.
Culver (NC)	2 E;lake W	815	26	
Elkhart	2.7 NNW;RR S	752	27 S6	73,80 oct.Hedge N.
Gordon (New Carlisle)	2.8 ESE;hwy N	730	13 S1	Fuel avail.Poles E.
Goshen	4.5 SSE;riv SW	823	39 R1 L3 S6	80,91 oct.
Huntington Co.(Huntington)	4 N;hwy E	750	30 S2	80 oct.Trees NE.
La Porte City	2.5 SSW;RR W	801	29 L3 S6	80 oct.Pole line E.
Logansport	4.4 SSW;hwy E	605	27 S1	80 oct.Poles E,N.
McComb (Decatur)	0.9 NW;hwy E	800	20 S4	80 oct.Poles S.
Manchester (No. Manchester)	1.5 W;RR E	752	21	Poles S.
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,W,S.
Million (Logansport)	7 SW;riv 2 N	594	15	Pole S.
Monticello	6 SW		19 S1	80 oct.Data not verified.
Peru	3.5 WSW;riv E	740	25 S6	80 oct.
Plymouth	1.5 NW;RR E	898	32 S4	80,91 oct.Poles W,E.
Rochester	1.5 E;RR N	779	18 S4	73 oct.Lake S.Poles N.
Smith (Fort Wayne)	4.5 N;RR E	831	35h R1 L4 S5	80 oct.No storage.
Sportsman (Mishawaka)	3.7 NE;riv S	760	18 S4	73 oct.No storage.Poles E,S.
Starke Co. (Knox)	1.7 S		26 S3	80 oct.Pole lines sur fld.No storage.Data not verified.
Triangle Air Service (Wellsboro)	2 NNE;hwy S	800	22 S2	80 oct.Poles S,SE,ESE.
Tri State (Angola)	4.2 W;lake W	900	30 S4	73 oct.
Victory (Warsaw)	4 N; RR E	790	24 S2	Ltd 73 oct.Obsts sur fld.
Whittenberger (Wabash)	1.5 NNW;hwy E	770	20 S2	80 oct.
Myers (Ft. Wayne)	4 SE		24 S2	80,91 oct. Pwr lines NE.Data unverified

MICHIGAN

Abrams (Grand Ledge)	1 NE	844	26 S1	80 oct.Pwr line S,W.Data unver.
Adrian City	3 SW; RR N	800	25 S6	80,91 oct. Obsts sur fld.

h-hard surfaced runways. R-radio facilities L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MICHIGAN

AIRPORT — CITY NAME	LOCATION	EL.	CLASS	REMARKS
Allegan	1.9 E;RR S	701	21 S4	80 oct.Pole line N,E,S,Blocked.
(P) Alma	1.3 NE;riv SE	750	32 S6	80 oct.Poles W.
Austin Lake (Kalamazoo)	8.5 SSE;lake N	860	27 S4	80 oct.Poles N.
Barry (Saginaw)	3 WSW;riv S	599	19 S4	80 oct.
Belding	2.1 W;RR E	790	27 S4	73 oct.Poles S.
Breedsville Airpark	0.6 WNW;RR E	654	23 S4	73 oct.No Sto.Pole line NE,S,SW.
Brooks (Marshall)	1.3 S;riv N	950	26 L3 S6	80 oct.Trees W,lgtd.
CAPITAL CITY (LANSING)	3.8 NW;RR S	857	42h R1 L4 S6	73,80 oct.
Cass Co. Mem. (Dowagiac)	1 NW;RR SE	760	27 S2	73,80 oct.Pole line E.
City (South Haven)	4 S;RR W	640	20 S4	73 oct.Trees W.
Elsie	0.3 SSE;RR NNE	730	19 SL	80 oct.Pole lines sur fld.
Fitch H. Beach (Charlotte)	1.8 ENE;RR NW	880	25 S6	73 oct.No storage.
Haines (Three Rivers)	2.3 NE;riv SE	820	26 S1	80 oct.Poles N,S.
Hastings	3.2 WNW;RR SW	802	34 S3	80 oct.Pole line N.
Hillsdale	1.6 NW;RR E	1160	19 S1	73 oct.Poles NE,E.
Ionia	3 S;hwy W	810	24 S6	73 oct.Poles NW.
Jack Barstow (Midland)	1.4 ENE;RR S	634	27 S2	73,80 oct.Poles NE.
Jewett (Mason)	1.3 SE;RR W	920	22 S2	73 oct.Poles W.
Johnsons (Ithaca)	1 ENE;RR S	750	17 S2	80 oct.Ltd storage.
KELLOGG (BATTLE CREEK)	3 WSW;RR bed W	936	49h R1 L5 S6	80,91 oct.Pld lgts prior req.
KENT COUNTY (GRAND RAPIDS)	3.5 S;RR NE	681	44h R1 L3 S6	73,80,91 oct.Pole line NW.SE. Radio repairs.
Kirsch (Sturgis)	1 NW;RR E	922	24 S4	80 oct.Poles S.
Lakeview	1.1 NNE;lake S	900	19 S2	73,80 oct.Poles N.
Leach Aero Service(Hartford)	1 NNW;RR W	664	27 S3	73,80 oct.
(P) Legg (Coldwater)	1.3 NW	982	32 S2	80 oct.Trees E.
(P) Lindbergh (Kalamazoo)	4 SSE;RR E	872	40h S6	80 oct.Poles S.
Marks (Lawton)	1 N;RR S	770	25 S2	73 oct.Poles W,ENE.
Montcalm Co. (Greenville)	2.5 S;RR E	800	22 S1	80 oct.
Mt. Plessant	2.2 NE;RR W	755	36 S4	80 oct.
(P) MUSKEGON COUNTY	3.5 S;lake N	627	40h R1 L3 S6	73,80,91 oct.
Newago	0.8 SSE;RR NNW	785	20 S1	80 oct.
Niles	1.5 NE;RR NW	740	24 S2	73,80 oct.Trees N,S.
Northside (Muskegon)	5.4 NNE	590	29 S4	73 oct.No sto.Refinery SW.
Park Township (Holland)	3 WNW;bay S	612	27 L4 S6	73,80 oct.No beacon,Lgts prior req.
(P) Reynolds (Jackson)	2.5 WNW;RR S	990	40h R1 L5 S4	80,91 oct.No sto.Pole line SE,SW.
St.Joseph Co.(Centerville)	5 SE;RR,hwy N	830	15	Pole line N,trees W. (NC)
Shiawassee Co. (Owosso)	2 E;riv S	740	24 S1	80 oct.Poles sur fld.
Sparta	2.7 SE;RR W	752	25 S4	73,80 oct.Poles sur fld.
Tri-City (Saginaw)	10 NW;RR SW	660	57h	
Twin City-Ross (Benton Harbor)	1.5 NNE;RR S	640	38h S6	73,80 oct.
White Cloud (NC)	0.5 N	872	18	Twr SE;poles E,W.
Oceana (Rothbury)	1 W;lakes NE		30 S2	80 oct. Data not verified.
Mecosta Co.,5,GR-TC	1.5 NW;RR E	928	39 L3 S4	80,91 oct.
ⓐAustin Lake (Kalamazoo)(NC)	8 SSE;RR E	855	100 S4	80 oct. Boat;beach;tractor.
‡ Interstate (No. Muskegon)	0.3 S	581	100	Ramp;boat;dolly.(NC)

OHIO

*	Archbold Int,18,CG-LG	3.5 NNW;RR N	716	28 R1 L3	
	Bryan-Defiance Memorial (Defiance)	5.2 NW;riv E	705	31 S2	73,80 oct.Pole line S,E.
	Grieser (Wauseon)	2.5 E;RR N	750	24 S1	80 oct.
(P)	Lima	4 WNW;RR N	830	42 S6	80,91 oct.Pole line N.
	Paulding County (Paulding)	2.5 NE;RR W	720	26 S2	80 oct. Poles S.Data not verif.
	Skinner (Hicksville)	1.6 NNW;RR S	810	26 S1	73 oct.Obst sur fld.
	Van Wert	1WSW;hwy S	785	26 S6	80,91 oct. Poles N,S,NW,NE

RADIO

MICHIGAN

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISHOP (Flint)	278	CI	3105,4495(prior req only)
DETROIT CITY (Detroit)	278	C	(4)
DETROIT NAS	269(142.74)	CN	(3);142.74 (8-17)
DETROIT	201 (D)	K; 329°,2.2	Detroit City Arpt.
FLINT	335 (FN)	MHT	(4)
ROMULUS	230 (DT)	SBRAZ-DT	(4)
Romulus AAF	219 (126.18)	CA(ILS);86°,2.5	(4); 126.18
SAGINAW	212 (SI)	MHT	(4) (6-22)
SALINE FM	(- - -)	FM, 261°,20	Romulus
SELFRIDGE (Mt.Clemens)(Army)	388 (DLD)	SBMRAZ	(3); 126.18
Selfridge Field	396 (126.18)	CA(ILS);119°,2	(3) only
WIXOM FM	(- - - -)	FM, 344°,20	Romulus
YPSILANTI (Willow Run)	414 (DYP)	MH; 360°,0.5	
Willow Run Airport	332	CI	(4) (8-24)
OHIO			
AKRON	362 (AX)	BMRLZ-DT	(4)
Akron Airport	272 (126.18)	C; 45°,0.4	(4);116.1,131.9,126.18
AKRON LFM	(-)	LFM, 45°,4.5	Akron
AVON LAKE LFM	(- - - -)	LFM, 325°,8.1	Cleveland
BOWLING GREEN FM	(- - -)	FM, 201°,10.3	Toledo
BRECKSVILLE FM	(-)	FM, 100°,13	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX,100°, 0.7	(4)
ELYRIA FM	(- - -)	FM,280°,10.9	Cleveland
FINDLAY	209 (JF)	MH	(4)(cont.)
HAYESVILLE (Int.)	329 (HA)	BMHT	(4)(cont.)
HOMERVILLE FM	(. . -)	FM, 31°,83	Columbus
NORTH ROYALTON LFM	(- -)	LFM,145°,10.8	Cleveland
PERRY (Int.)	332(PE)(116.1)	MHVT	(4); 116.1
PORT CLINTON	275(PY)(116.1)	MHVT	(4); 116.1
TOLEDO	239(TL)(116.1)	SBMRAZ-VDT	(4); 116.1
Toledo Airport	263	C; 10°,2.7	(4)
VERMILION FM	(. . - - -)	FM, 280°,26	Cleveland

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
ROMULUS AAF, MICH.	109.9		50° Mag.	IM	(.07)	MM ·····(.98)		OM	--(4.27)
						MMK		OMK	
SELFRIDGE, MICH.	109.5	332.6	184° Mag.	IM	(.23)	MM ·····(.81)		OM	--(4.31)
						MMK		OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

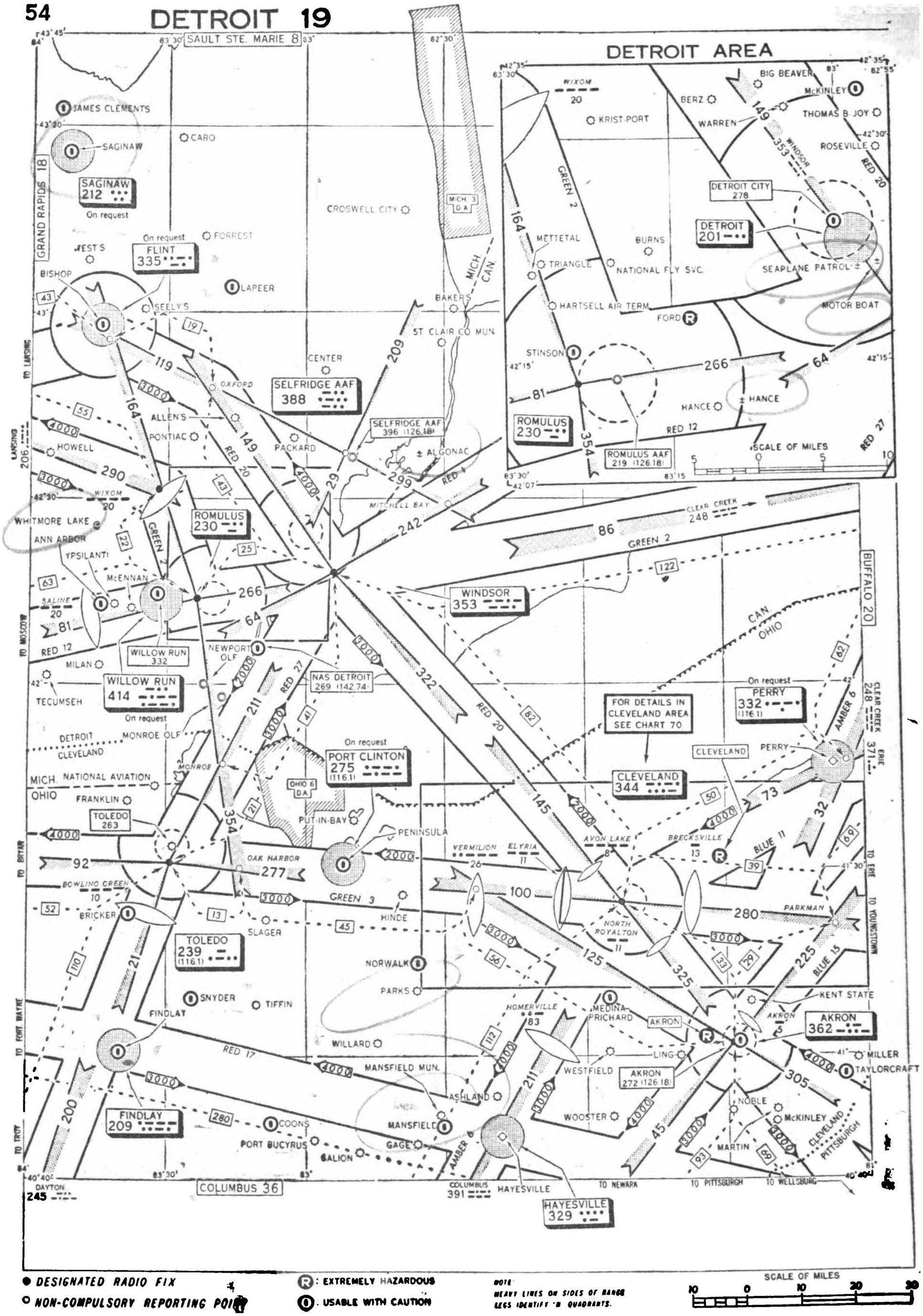
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen's (Pontiac)	5.5 NNE; RR W	1020	26 S6	80 oct. Trees S, SW, SE.
Ann Arbor	4 S; RR E	835	28 L2 S6	80 oct. Trees NE.
Baker's (Fort Huron)	3 NNW; RR NNE	585	24 S6	80 oct. Poles N, S, NE.
Berz (Birmingham)	1.5 E; RR SW	700	25 S1	73,80 oct. Pole line N.
[redacted]	0.8 E; hwy W	650	21 S4	80 oct. Pwr line N.
(P) BISHOP (Flint)	4 SSW; RR SW	781	50h R2 L5 S5	80 oct.
Burns (Detroit)	8.5 WSW; RR N	625	19 S6	73 oct.
Caro	3 WSW; RR SE	699	22 S2	80 oct.Poles E.
Center (Armada)	2.3 W; RR S	666	25 S1	80 oct. Pole line NNE.
Croswell City	1 W; RR,riv E	732	25 S2	80 oct. Trees S, E.Rcv req.
(M) Detroit NAS (N)	17 SSW	594	47h R1 L5 S6	91,100 oct. ARPT OF ENTRY
DETROIT CITY (Detroit)	5.5 NE; RR S	625	53h R1 L4 S6	73,80,91 oct.Tank W side.
Ford (Detroit)	8.8 SW; RR N	600	37h	PRIVATE.
Forrest (Fostoria)	2.4 S; riv SE	830	26 S1	80 oct.Pole line sur fld.
‡ Hance (Trenton)	5 NNE	574	Unl S1	73,80 oct.Beach,ramps.
Hance (Grandotte)	2.5 W; hwy W	590	33 S6	73 oct. No sto.
Hartsell Air Term.(Wayne)	3.5 NW; RR E	675	18 S6	80 oct. No sto.
Howell	0.8 N lake E	930	20 L1 S1	73 oct.
James Clements (Bay City)	3.5 S; riv S, W	599	36 S4	80 oct.
‡ Algonac	2.8 W	574	40 S1	73 oct.
‡ Detroit Seagl. Patrol	4 ENE	573	Unl S1	73 oct.Dock E,Belle Isl. S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

MICHIGAN

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Knist-Port (Farmington)	3.8 N; jet rds	860	27 S6	73,80 oct. Obsts sur fld.
(P) Lapeer	2.4 ENE; RR S	830	32 S6	80 oct. No sto.Poles NW.
McEnnan (Ypsilanti)	2.7 SSW; rd E, S	738	23 S4	80 oct.
McKinley (Fraser)	1.3 NW; RR E	620	27	Pole line E, NE.
Mettetal (Plymouth)	1.5 SSE; RR E	700	23 S6	73,80 oct. Poles N, W
Milan	3.8 SW; RR SE	705	23 S2	73 oct. Pole line N.
(N) Monroe OLP (Newport)	3.5 SSE; hwy SE	590	29 S4	73 oct. No sto.
Nat'l Fly. Serv.(Detroit)	11.5 WSW; RR N	635	30 S4	73 oct. No sto.Poles NE, NW.
(N) Newport OLP (N)	3 W	608	20h	
Packard Prov.Grds.(Utica)	2.5 N; rd E	685	40	Pole line N, S.
Pontiac	6.4 WNW; RR NE	970	21h L4 S6	80,91 oct. Poles S.
(A) Romulus AAF (A)	3 E; RR N	630	61h R3 L5 S6	91,100 oct.Ltd svcg.ARPT OF
Saginaw	4.5 E; RR N	601	33 R1 L4 S4	73,80 oct.Poles S,SE,SW ENTRY
St. Clair Co.(Port Huron)	5.5 SW; hwy S	650	23 L1 S5	80 oct. Poles NE,SE,SW,NW.
Seeley's (Davison)	4 WSW; RR N	780	20 S6	80 oct. No sto. Poles N.
(A) Selfridge(Mt. Clemens)(A)	3 E; lake NE	583	60h R3 L5 S6	73,100 oct. JP-1 Poles E. FOREIGN CLEARING STATION.
Stinson (Wayne)	1.4 SW; RR E	660	25h S1	80 oct. Hi-line N, NE.
Tecumseh	1.8 NNE; RR W	815	26 S6	73 oct. Pole line S.
Thomas B.Joy (Detroit)	13 NE; hwy E	616	24 S6	73,80 oct.No sto.Trees SW.
Triangle (Plymouth)	1.5 ESE; hwy S	709	26 S4	80 oct. 30' poles N.
Warren	1.6 WNW; RR E	625	23 S1	73 oct. Pole line N.
West's (Clio)	4 SW; RR E	690	21 S1	73 oct. Pole line E, NE.
Willow Run (Ypsilanti)	4 E;RR N; riv S	710	74h R2 L5 S1	80,91 oct.Rdo rec req.
Wings (Utica)	2.5 SW; RR E	630	26	Poles N; stumps NW.
Ypsilanti	4.4 WSW; RR NW	840	24 S5	80 oct. Pole E; woods N.
Roseville	0.5 S;hwy W	610	29 S6	73,80 oct.Poles S,SW.
OHIO				
(P) AKRON	3.4 SE; RR W	1043	44h R2 L5 S4	80,100 oct. No sto.ARPT OF
Ashland	1.8 N	1079	23 S2	73,80 oct. Pole line W ENTRY.
Bricker (Bowling Green)	1 NE; RR W	675	30 S4	80 oct.
Coons (Nevada)	0.3 NE; RR S		21 S2	80 oct. Data not verified.
Penwick (Kellys Island)	1.3 NE	600	18	(NC)
Findlay	1.5 SSW; hwy NW	800	27 R1 L3 S4	80 oct.
Franklin (Toledo)	4.5 WNW; RR S	630	32 S4	80 oct. Pole line all sides.
Gage (Mansfield)	4.5 W; RR SE	1360	13 S2	73 oct.
[redacted]	1.5 WNW; RR SE	1155	18 S2	80 oct.
★ Hayesville Int.,27,LV-CV	2.5 WNW; hwy S	1300	30 R1 L3	
Hinde (Sandusky)	2.8 E; RR S	574	30 S6	73oct.Poleline S.ARPT OF ENTRY
[redacted]	2.8 W; RR S	1120	36 S4	80 oct.No sto.Pole line N.
Ling (Barberton)	3 WSW; RR N	1150	30 S6	80 oct. Obsts sur fld.
McKinley (Canton)	2.3 NE; hwy SE	1100	32 S4	80 oct. Poles N,S,E.
Mansfield	3.8 N; RR E	1300	26h L S6	73,80 oct. Pole line SW,W.
Martin (Canton)	4 NNE; hwy SE	1080	30 L S6	80 oct. Pole line sur fld.
[redacted]na)	3 WNW; RR NW, SE	1060	25 S6	80 oct.No sto.Poles S.
Miller (North Benton)	1.5 W; RR SE	1070	28 S4	73 oct. Poles S.
National Aviation(Toledo)	4.1 NNE; RR E	595	38 S6	91 oct. Pole line S,W,NNE.
Noble (Massillon)	4.5 NNE; hwy W	1080	22 S6	80 oct.No sto. Pole SSW.
Norwalk	0.8 NE; RR W	700	18 S2	73 oct. Pole line W.
Airpark (NC)	2 NNE; RR W	690	29	Poles W, SW.
[redacted]k)	4.5 S; hwy E, W	880	29 S1	80 oct. Poles E.
Peninsula (Port Clinton)	5.5 E; RR S	587	36 R1 L3	
★ Perry Int,4B,CV-A7	2.3 NE; RR S	692	26 R1 L3	Poles E.
Port Bucyrus (Bucyrus)	2 S; RR NW, E	1000	26 S6	80 oct. Poles E. ARPT OF
Put-In-Bay	1.2 SSW	590	16	Poleline NW.PRIVATE. ENTRY.
Slager (Fremont)	2 NW;RR SW	630	19 S6	73,80 oct.No sto.Poleline
Snyder (Postoria)	1 E; reservoir SSW		32 S1	80 oct.Data unver. N,E,SE.
Taylorcraft (Alliance)	2.5 NNE; RR SE	1170	22h S5	80 oct.No sto.Poles sur fld.
Tiffin	1.9 N;RR W	750	26 S4	80 oct.Poles E.
TOLEDO	8.2 SSE;RR W	621	42h R2 L5 S4	73,80,91 oct.
Wellington	Adi NW; RR W	850	20 S2	80 oct.Stacks NE.Data unver.
Westfield (LeRoy)	1.2 SSE;RR E, S	1030	16 16 S4	80 oct.No sto.
[redacted]	1.6 SSW;RR NE	960	22 S2	80 oct.Poles W.
(P) Wooster	3 NNE;hwy SE	1150	32 S6	80 oct.Poles S, SE.
[redacted]	5 N	1300	56h S1	73,80,91 oct.
Washtenaw (Ann Harbor)(NC)	5 W		26 S2	80 oct. Hi-line S.Data unver
‡ Motor Boat (Detroit)	6 ENE	573	Unl S1	Dock. Peach Island S.
Whitemore Lake	1 NNE	894	44 S4	Beach;boat;ramps.

DETROIT 19



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

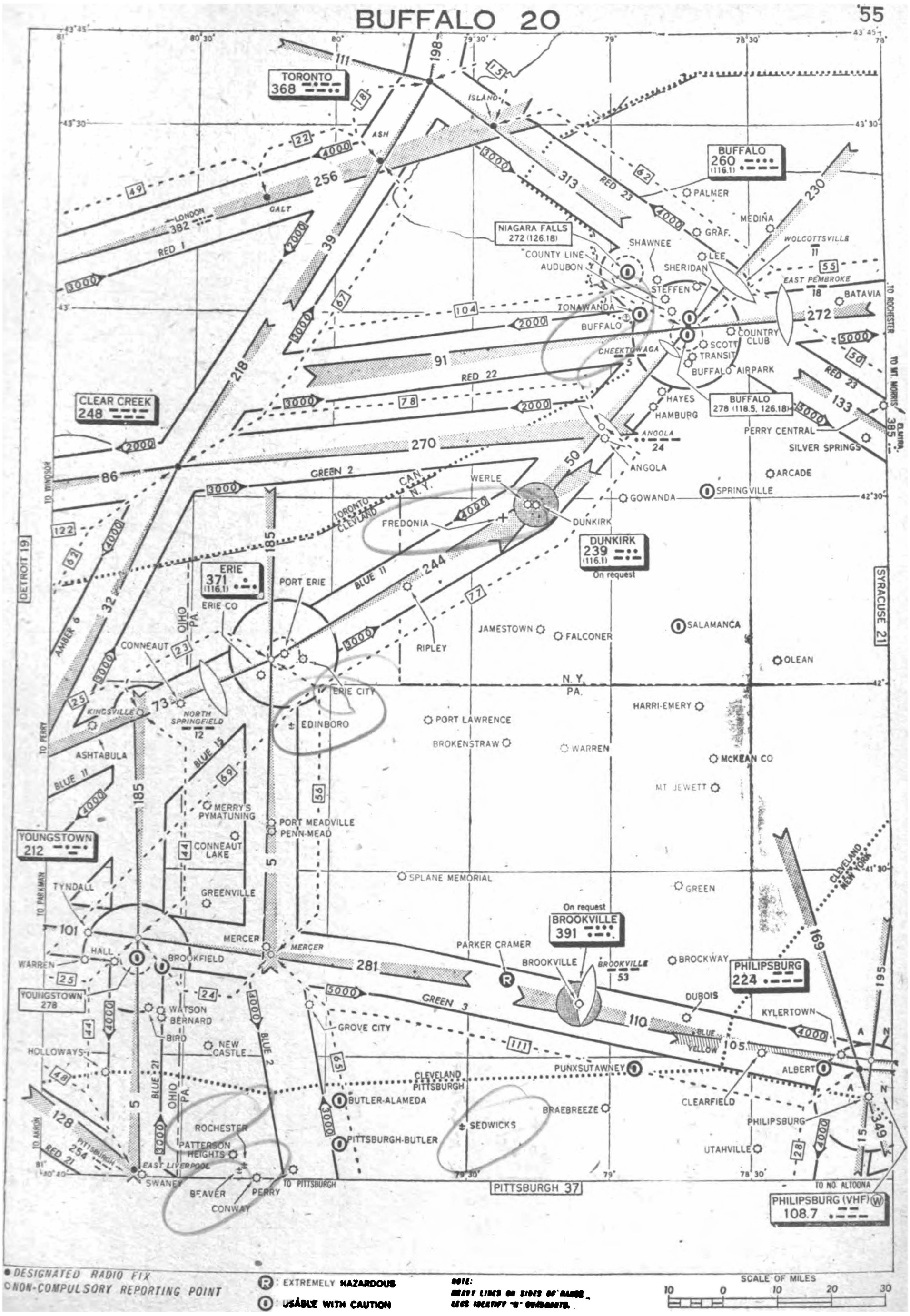
Ⓡ : EXTREMELY HAZARDOUS

Ⓤ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'B' QUADRANTS.

SCALE OF MILES
10 0 10 20 30

BUFFALO 20



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS
Ⓘ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "R" QUADRANTS.

SCALE OF MILES
10 0 10 20 30

RADIO — NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANGOLA FM	(. . - - -)	FM, 230°, 24	Buffalo
BUFFALO	260(BJ)(116.1)	SBRAZ-VDT	(4); 116.1
Buffalo Airport	278 (126.18) (118.5)	AC;230°,0.9	(4);118.5,126.18,131.9
CHEEKTOWAGA LFM	(- - -)	LFM, 23°,4.7	Buffalo
DUNKIRK	239(DK)(116.1)	MHVT	(4); 116.1
EAST PEMBROKE FM	(- -)	FM, 92°, 17.5	Buffalo
NIAGARA FALLS AIRPORT	278 (126.18)	CI	(4);126.18 (7-23)
WOLCOTTSVILLE FM	(-)	FM, 50°, 11	Buffalo
OHIO			
YOUNGSTOWN	212 (CT)	BMRLZ-DT	(4)
Youngstown Airport	278	CI; 185°,3.5	(4); (730-2330)
PENNSYLVANIA			
BROOKVILLE FM	(- - -)	FM, 290°, 53	Philipsburg
BROOKVILLE (Int.)	391 (BR)	MH	(4)
ERIE (Port Erie)	371(ER)(116.1)	SBMRAZ-VDT,64°,2	(4); 116.1
NORTH SPRINGFIELD FM	(- - -)	FM, 253°, 12	Erie
PHILIPSBURG	224 (MJ)	SBRAZ-DT,169°,5	(4)
PHILIPSBURG	108.7 (MJ)	VARW	
CANADA			
CLEAR CREEK, ONT.	248 (QO)	BRAZ-DT	(4),3232.5(N),5632.5 (D)
TORONTO, ONT.	368 (YZ)	SBRAZ-DTX	3105,6210,3117.5

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Angola	1.4 N;RR SE	610	15 S1	80 oct.
Arcade	2 N;RR E,W	1740	22 S4	Ltd 80 oct.No storage.
Audubon (Getzville)	1.7 SSW;RR N,SW	580	19 S6	80 oct.
(P) Batavia	2.4 NNE;rd W	910	30 S6	80 oct.Pole line W.Trees E.
Buffalo Arpk (Gardenville)	1.5 ENE;rd S	680	27 S6	80 oct.
(N) BUFFALO	6.1 ENE;RR NE	712	56h R2 L6 S6	80-100 oct.ARPT. OP ENTRY.
Country Club (Clarence)	2.3 SSE;RR S	800	36 L S6	80 oct.Trees SW.
County Line (No.Tonawanda)	3.4 E;RR SW	577	21 S4	80 oct.
(P) Dunkirk	3 E;RR N,S	692	40h R1 L5 S2	80 oct.
Erie Co.Aero Park (Hamburg)	3.5 WSW;RR E,W	750	18	Pole line S.UNUSABLE.(NC)
Falconer	1.3 NNE;RR S	1250	22 S4	80 oct.Obsts sur fld.
Fredonia	3.5 W;RR SE		27 S2	80 oct.Pole line N,NE,E.
Gowanda	1.4 NNW;crk W	760	22 S6	80 oct.No storage.
Graf (Lockport)	2.8 N;RR S	380	15 S6	80 oct.
Hamburg Airpark Inc.	2 NNW;RR,hwy W	722	23 S2	80 oct.Pole line NE.
Hayes (Blasdell)	0.7 SSE;RR E,W	723	20 S4	80 oct.No storage.
Jamestown	4.1 N;hwy E	1719	27h S6	80 oct.Trees S.
Lee (Lockport)	1.8 SSE;hwy N	640	18h S2	80 oct.Pole line N.
Medina	2 W;RR S	500	21 S1	80 oct.Obsts sur fld.
(P) Niagara Falls	4 E;RR N	587	55h R1 L5 S4	80,91,100 oct.JP-1.No sto.
Olean	1.8 SE;RR N	1440	22 S6	80 oct.Trees W,N;hill S.
Palmer (Olcott)	1.2 SSW;RR S	315	17 S2	73 oct.Pole line E.
Perry Central	1.7 NNW;lk SSW	1400	23 S1	80 oct.Pole line,trees N,E.
Perry Fly.Service (Perry)	3.3 W;RR W	1640	21	Pole lines NNE. (NC)
Ripley	1.4 WNW;lake N	650	22 S4	80 oct.No storage.
Salamanca	1.6 W;RR N,S	1370	12 S6	80 oct.
Scott (Lancaster)	1.5 E;RR N,S	680	22 S1	80 oct.Pole line SW.Rwy data unverifie
Shawnee Flying Service (North Tonawanda)	4.5 NNE;riv SE	580	33 S6	80 oct.Pole line E,W.
Sheridan (Williamsville)	2.5 NE;hwy SE	640	38 S6	80 oct.No storage.
Silver Creek (NC)	1 WSW;hwy SE	720	11	Trees E, NW.
Silver Springs	0.5 E;lake NE	1420	15 S1	80 oct.
Ⓐ Buffalo	7.3 NW	570	103 S6	80 oct. Ramp; all facs.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Springville	1.5 NE;RR W	1395	24 S4	80 oct.Pole line E.
Steffen (East Amherst)	3.5 N	582	22 S6	80 oct.Obsts sur fld.
Tonawanda	3 SSW;RR E	610	30h S4	80 oct.Rough.Obsts sur fld.
Transit (Depew)	2 SSW;RR N	670	13 S2	80 oct.Trees,bldg E.
Werle (Dunkirk)	1.8 ENE;RR N,S	640	22 S1	80 oct.Poles,trees sur fld.
Westfield (NC)	1.5 WSW;hwy N	758	18 L1	S blocked.
OHIO				
Ashtabula	3.1 W;lake N	621	17 S2	80 oct.
Barnard (Youngstown)	3.4 E;lake NE	1140	28 S6	73,80 oct.Pole line N,S,W.
Bird (Youngstown)	2.6 NE; RR W	1000	22 S4	80,91 oct.Pole line W,N.
Brookfield	0.8 W;RR W	1130	20	Poles N,E.
Conneaut	2 ESE;hwy S	670	18 S1	80 oct.
Hall (Warren)	3.5 ENE;RR NW	900	26 S2	73,80 oct.Poles E.
Holloways (Greenford)	1 ENE;RR W	1250	15 S1	80 oct.Wires E.
Sky Harbor (Williamsfield)	1 S;hwy E	1140	26	Poles E. (NC).
Sweney (East Liverpool)	4.9 NW;crk SE	1170	22 S2	80 oct.
Tyndall (Warren)	6 NNW;RR E	940	30 L1 S4	80 oct.No storage.
Warren Airways	2.3 WNW;RR S,E	900	22 S2	73 oct.Trees S.
Watson (Youngstown)	3.8 E;lake S	1080	17 S2	Ltd 73,80 oct.
YOUNGSTOWN	11 N;hwy E	1178	39h R2 L5 S6	73,80,91 oct.
PENNSYLVANIA				
Albert (Philipsburg)	2.9 ENE;rd N	1630	31 S2	80 oct.Pole line S,E.
Braebreeze (Marchand)	0.3 N;RR NW	1650	18 S2	80 oct. Trees N,NE.
Brockway	1.3 NE	1700	18	
Brokenstraw (Youngsville)	2.6 W;RR S	1230	17 S4	73 oct.
★ Brookville Int,45A,CG-LG	2 WSW;RR E	1400	30 R1 L3 S1	80 oct.
Butler-Alameda (Butler)	3.4 WNW	1340	24 S6	80 oct.Pole line E.
Clearfield	1.5 WSW;RR SE	1220	20 S1	80 oct.Pole line NE.
Conneaut Lake	1.7 WSW;hwy SE	1250	18 S2	80,91 oct.Pole line SE end.
Conway	0.7 N	950	15 S4	80 oct.Hill N.
Dubois	1.7 ESE;RR NE	1575	30 S6	80 oct.
Erie City (Kearsarge)	0.5 W;hwy E	900	29 S6	80 oct.Pole line SE.
Erie County (Erie)	11.6 SW;hwy N	805	24 S6	80 oct.Poles N,E,S.
Green (Ridgeway)	3 NW;hwy,RR E	1720	21 S2	No fuel.Trees NNW.
Greenville	2.3 W;RR E	1180	17 S2	80 oct.Pole line S.
Grove City	2.1 SSE;RR E	1275	19 S4	80 oct.
Harri-Emery (Bradford)	2.3 WSW;RR E	1490	20 S4	80 oct.
Kylertown	1 WNW	1660	40 S4	80 oct.Trees S,WNW.
McKean County (Bradford)	11 S;RR SW	2140	45h	
Mercer	4.8 NNE;RR W	1300	20 L1 S6	80 oct.
Merry's Pymatuning (Linesville)	1.5 NW;RR E	1200	21 S2	73 oct.Pole line NNE.
Mount Jewett	0.8 ESE;hwy N	2240	19 S4	80 oct.
New Castle	4 WNW;hwy SE	1080	29h S5	80 oct.
Parker Cramer (Clarion)	1ENE;riv N	1480	18 S1	80 oct.
Patterson (Beaver Falls)	1.5 S;RR,riv E	1020	26 S4	80 oct.
Penn-Mead (Meadville)	3 SSW;hwy E	1365	20 S2	73 oct.
Perry (Mars)	5 E;hwy E	1060	16 S6	80 oct.No sto.Pole line E.
Philipsburg,Site 51A,CG-L6	7 E;hwy N	1940	30h R1 L3 S1	80 oct.
Pittsburgh-Butler (Butler)	6.7 SSW;hwy E	1235	49 L1 S6	80 oct.
PORT ERIE (Erie)	6 WSW;RR SE	735	46h R1 L5 S6	80,91 oct.
Port Lawrence (Corry)	1.2 S;RR N	1745	23 S2	73 oct.Pwr line NW.
Port Meadville (Meadville)	3.4 W;hwy S	1400	32h L4 S6	80 oct.
Punxsutawney	3 NE;hwy S	1470	22 S2	Ltd 80 oct.Pole line ESE,S.
Splane Memorial (Oil City)	4.1 NNW;hwy E	1490	22h S1	80 oct.
Utahville	1N;RR S	1800	22 S2	Ltd 73 oct.
Warren	2 WSW;RR N	1100	23h S4	80 oct.
‡ Beaver	0.5 S	670	50 S1	80 oct. Boat;beach;ramp.
‡ Edinboro	1.2 NNW	1200	Unl S1	Ltd fuel.Beach;boat;haulout.
‡ Rochester	0.5 S	670	78 S1	80 oct. Float;boat.

RADIO

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.GUARDED,HRS. OF OPER., REMARKS
DANSVILLE	212(DA)(116.1)	MHVT	(4); 116.1
ELMIRA (Chemung Co.)	385(EA)(116.1)	SBRAZ-VDT,75°,1.8	(4); 116.1
ROCHESTER	206 (RC)	BMRLZ-DT	(4)
Rochester Airport	278	CI;298°,2.2	3105,4495 (8-24)
ROME AAF	396 (126.18)	CA	(4); 126.18 (8-20)
SYRACUSE	350(SR)(116.1)	SBRAZ-VDT	(4);116.1
Syracuse Airport	278	CI; 178° 2.2	(4) (7-24)
TRI-CITIES (Endicott)	278	CI	3105(days)
UTICA	359(UA)(116.1)	BMRLZ-VDT,151°,3.0	(4);116.1
PENNSYLVANIA			
ALLENTOWN (Allentown-Bethlehem)	320(XA)(116.1)	SBMRAZ-VDT,192°,2.7	(4); 116.1
LAKE CARE FM	(- - - -)	FM, 359°,20.8	Wilkes-Barre
SLATINGTON FM	(- - - -)	FM, 290°, 12	Allentown
SUNBURY	353 (SV)	MHT	(4)
SUNBURY	108.3 (SV)	VARW	
WILKES-BARRE (Wilkes-Borre-Wyoming Valley Airport)	272 (WI)	SBMRAZ-DT,243°,2.6	(4)
WILLIAMSPORT	233 (IA)	BMRLZ-DT,281°,7.5	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers **in the Frequency Column Indicate** VHF **on** which **Voice is Available.**

AIRPORTS

NEW JERSEY

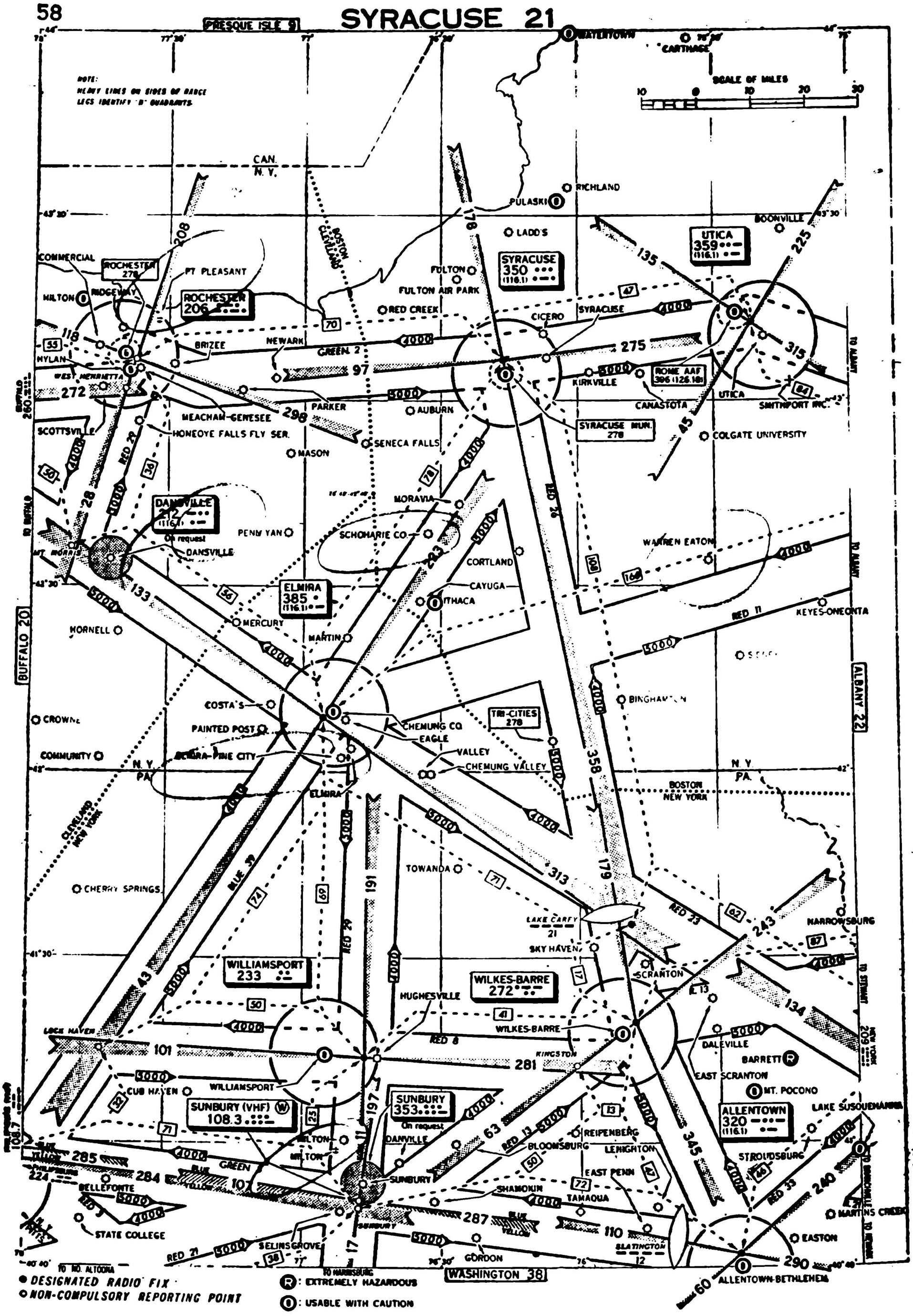
AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lake Susquehanna(Blairstown)	2.3 WSW;RR S	380	28 S6	80 oct.
Martins Creek, Belvidere	3 SSW;riv SE	340	25 S6	80,91 oct.Pole line N.
NEW YORK				
Auburn	3.7 NNW;lake E	525	24 S4	80 oct. Poles,trees sur fld.
Binghamton	7.2 NNE;RR NW	940	18 S2	80 oct.Trees N.
Bonnie Brae (Owasco)(NC)	1.7 SW;RR W	960	17	Cattle on fld.
Brizee (Pittsford)	2 E;RR N	422	25 S4	80 oct.Pole line S,NW.
Canastota	1.3 WSW;RR N	540	22 L1 S1	80 oct.
Carthage	1 E;RR NW	740	20 S1	80 oct.
Cayuga (Ithaca)	3.8 WNW;hwy E	1280	23 S1	80 oct.Pole line E.
CHEMUNG CO. (ELMIRA)	6.5 NW;RR S	951	40h R1 L5 S4	80,91,100 oct.
Cicero	0.5 NW;lake SW	416	21 S4	80 oct.
Colgate Univ. (Hamilton)	5.4 N;RR W	1178	25 S6	80 oct.
Commercial (Rochester)	7.3 WSW;RR S	570	18 S4	80 oct.Pole line W.
Community (Whitesville)	1.3 E;riv 1 N	2180	30	20-40' trees E,W,S.
Cortland	1.8 WSW	1144	30 S6	80 oct.Wooded ridge E.
Costa's (Painted Post)	2.7 NW;RR SSW	960	16 S1	80 oct.Trees W,NW.
Crowner (Wellsville)	1 W;RR E	1506	22 S2	80 oct.Obsts sur fld.
(P) Dansville	1 NW;RR NE	662	40h R1 L3 S6	80 oct.Pole line N.
Eagle Airpark (Horseheads)	1.8 SSW;RR E	900	22 S1	80 oct.Trees S,W.
Fulton	2.6 NNE;rd W	469	40h L2 S4	80 oct.No sto.Lgts prior req.
Fulton Airpark	0.5 W;riv E	360	18 S6	80 oct.12' brush WNW.
Hancock (NC)	1.5 SSE;RR E	905	17	Hills SSE,NNW.
Hilton	2.6 WSW;RR N	325	16 S1	80 oct.3' fence E,S,SE.
Honeoye Falls Flying Svc.	0.8 SW;RR E	700	20 S4	80 oct.Pole lines NE,NNW.
Hornell	3.5 NNW;RR SW	1170	24 S6	80 oct.Wooded hills sur fld.
Hylan (Rochester)	6 S;RRs N,S,W	525	27 S6	80 oct.Trees E.
Ithaca	1.3 NW;inlet E	386	25h S6	80,91 oct.No storage.
Keyes-Oneonta (Oneonta)	1.5 W	1000	27 S4	80 oct.Obsts sur fld.
Kirkville	0.3 W;RR N,W	434	19 S1	80 oct.Pole line E.
Ladd's (Mexico)	0.6 W;RR N	383	20 S1	Ltd 73 oct.Pole line NE.
Martin(Montour Falls)	1 NE;RR W,E	460	13 S4	80 oct.
Mason (Geneva)	3.5 WSW;RR SE	790	19 S1	80 oct.Pole line S.
Meacham-Genesee (Rochester)	6 S;RR N	564	22 L S6	80 oct.Floodlgts in emerg.
Mercury (Hammondsport)	1 WSW;RR N	750	15 S2	80 oct.Hill W.
Elmira	2 SSW;RR E	890	16	Trees adj NE,S.
Elmira-Pine City (Elmira)	4.6 SW;RR S,E	980	14	Trees WSW.

h-hard surfaced **runways.** R-radio facilities. L-lighting facilities S-servicing. (see **page 19**) **(NC)-Not charted.**

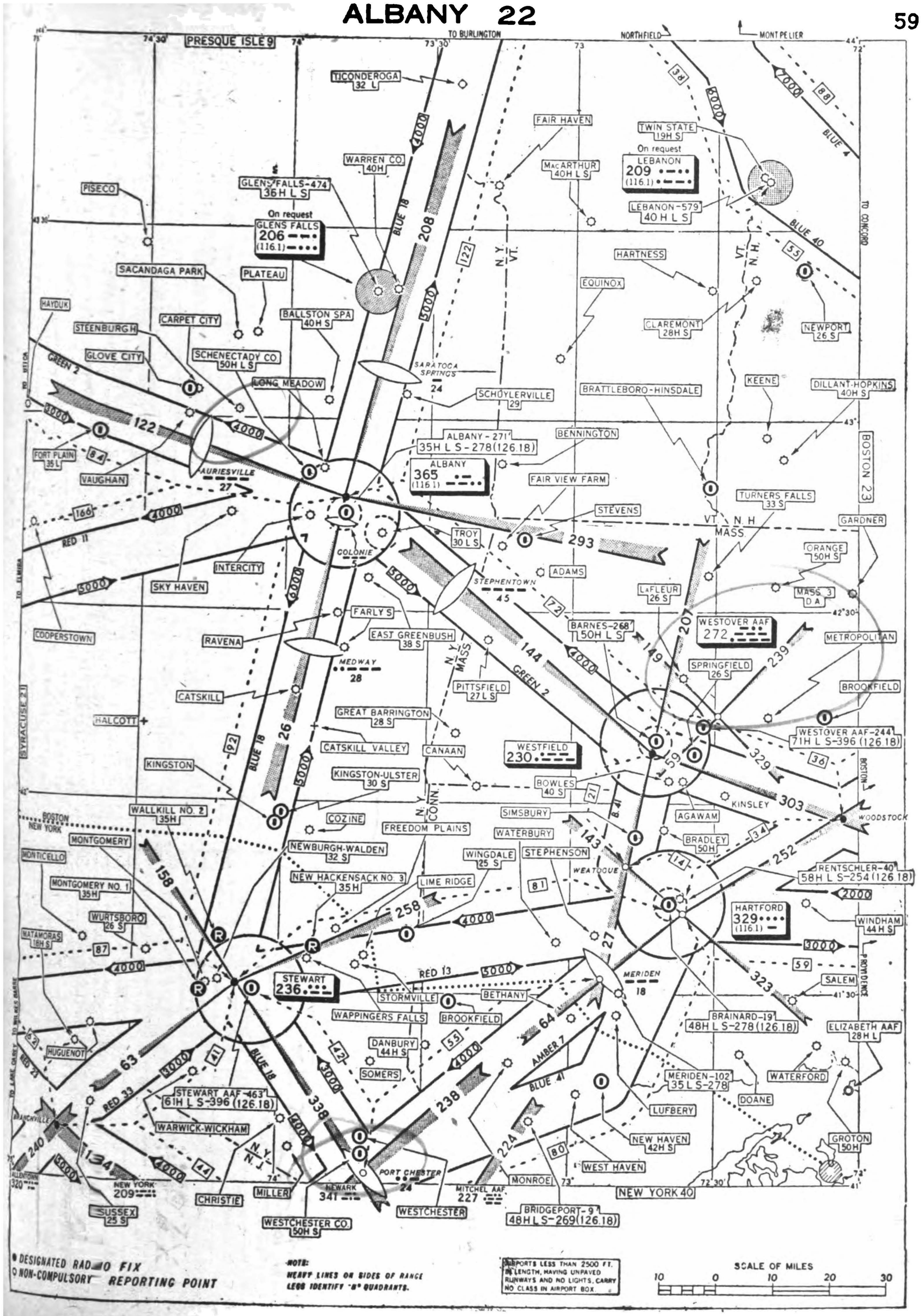
NEW YORK

AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Minoa (NC)	0.3 NW;RR SW	430	14	Trees E.
Moravia Air Haven	1 NW;RR E	730	20 S1	80 oct.S appch blocked.
Narrowsburg	0.6 NNE;RR E	700	18 S4	80 oct.Mts N,NE.
★ Newark Int,27A,CV-AZ	1.3 NNW;rd N,E	490	19 L3	Pole N.
Painted Post	4.4 SW;RR W	950	19 S2	80 oct.Trees E,W.
Parker (Palmyra)	2.8 S;RR N	540	15 S1	80 oct.
Penn Yan	1.1 S;lake W	850	20 S2	80 oct.
Pulaski	3 SE;riv N	500	18 S4	80 oct.Trees WSW.
Red Creek	0.8 SSE;RR N	355	18 S1	80 oct.
Richland	0.6 NE;RR SW	560	21 S1	80 oct.Hi-line S.
Ridgeway (Rochester)	3.7 W;canal ESE	530	18 S1	80 oct.Pole lines W,NW,SE.
(N) ROCHESTER	3.7 SW;riv S	549	44h R2 L5 S6	80,91 oct.ARPT OF ENTRY
(A) Rome AAF (A)	2.5 NE	473	63h R1 L5 S6	62,73,91,100 oct.JP-1.
Scottsville	1 N;RR W	600	10	Allway area: 1000 x 1000'.
Seneca Falls	2.2 SE	490	28 S2	80 oct.Obsts sur fld.
Sidney	1 WSW;RR SE	1012	24 S4	80 oct.Pole line S.
Syracuse	3.5 NNE;hwy W	416	55h	
" MUNICIPAL	5.9 WNW;RR N	396	50h R2 L3 S6	80,91 oct.Rdo rec req.
Tri-Cities (Endicott)	3.5 WSW;riv S	840	35h R1 L3 S6	80,91 oct.Wooded ridge W,ESE.
Utica	7.8 NW;hwy S	525	31 R1 L1 S6	80 oct.Twr W;hill N;trees E.
Warren Eaton (Norwich)	2.5 N;riv,RR E	1015	20 S1	80 oct.Wooded ridge E.
(F) Watertown	5.9 WNW;hwy N	325	50h L1 S4	80 oct.Bcn on req.ARPT OF ENTRY
Schoharie Co.(Richmondville)	1.3 NE; RR N	1000	16 S1	80 oct. Trees E.
Smithport Inc.(Utica)	2 S	1150	24	Data not verified.
PENNSYLVANIA				
BETHLEHEM (Allentown)	4.6 NNE;RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only. Fld lgts prior req.
Barrett (Canadensis)	1.8 N;hwy SW	1450	18 S2	No fuel. Trees E.
Bellefonte	4.3 ESE;hwy N	1045	21 L3 S6	80 oct.
Bloomsburg	0.8 ESE;riv S	478	32 L3 S6	80,91 oct.Pole lines SW, E.
Chemung Valley (Athens)	1.8 NNW;riv E	850	38 S4	73 oct.
Cherry Spgs. (Corbett)	2.4 W	2265	18 S1	Ltd 80 oct.Trees W,SE, NW.
Cub Haven (Lock Haven)	1.7 E;RR S	550	25h S1	80 oct. Pwr line E.
Doleville	0.6 N;hwy W	1775	19 S4	80 oct.Hill S.
Danville	2.2 SW;RR N	480	22 S3	80 oct.Hill SE.
Easton	3.5 NNW;RR W	380	22 S6	73-91 oct.Pole line N.
East Penn (Andreas)	1.5 NE;hwy S	700	18 S6	73 oct.
Gordon	1.8 W;RR E	960	18 S2	80 oct. Hill S.
Lehighton	0.9 WSW;hwy NW	502	18 S5	80 oct. Trees WSW.
Mid Valley (Olyphant)(NC)	3 N;rd NE	1385	20	
Milton	0.8 S;RR W	450	24 S6	80 oct.Pole line SW.
Mt.Pocono,21,BJ-LG	1.5 NW;hwy NE	1925	26h L3 S1	80 oct.Pole line NE.
Mt. View (Nicholson)(NC)	4.8 ENE;crk NW	1280	21	50' trees S.
Reifenberg (Hazleton)	5.8 NNW;rd E	1146	21 S4	80 oct.
Scranton	7.2 WNW;hwy N	1150	24h L3 S6	73-91oct. Fld lgts prior req.
Selinsgrove	1.1 N;hwy E	450	25 S2	73,80 oct.Pole line E,W.
Shamokin (Elysburg)	2 SE;RRs W	1100	16 S2	80 oct.;
Skyhaven (Tunkhannock)	0.3 S;RR N	639	20 S1	80 oct.Pole line,trees SW.
State College Air Depot	3.4 E;hwy S	1200	19 S4	80 oct.Poles adj W.
Stroudsburg-E. Stroudsburg (Stroudsburg)	2.5 NNE;hwy S	426	22 S4	80 oct.
Sunbury	2 NNE	450	37 R1 L1 S6	80 oct. No sto.
★ Tamaqua,Int,61B,CG-LG	2.2 WNW;hwy W	1260	30 L3	
Towanda	1.5 SSE;RR W	700	25h S1	80 oct.Pole line SW,NE.
Valley Airpark (York)	3 ENE;RR N	420	21 S4	80 oct.Poles SSE,NNW.
Wilkes-Barre-Wyoming Valley	3.5 NNE;riv S	546	35h R1 L3 S4	80,91 oct.
Williamsport	5.1 E;riv S	526	43h R1 L5 S6	80,91 oct. Lgts prior req.
East Scranton (Scranton)	7.3 ESE;lake E	1660	23	Trees S, N.
Hugheesville	0.6 S;crk E	570	12 S2	No fuel. Trees NE.
† Milton	1.5 SW	440	50 S	Svcg from Milton Arpt.

SYRACUSE 21


PRESQUE ISLE 9
WATERTOWN
CARTHAGE
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
10 0 10 20 30
CAN.
N.Y.
PULASKI
RICHLAND
LADD'S
BOONVILLE
UTICA
359
(116.1)
SYRACUSE
350
(116.1)
FULTON
FULTON AIR PARK
RED CREEK
CICERO
SYRACUSE
COMMERCIAL
ROCHESTER
270
PT PLEASANT
ROCHESTER
206
HILTON
RIDGEWAY
BRIZEE
NEWARK
GREEN 2
97
275
NYLAN
WEST HENRIETTA
272
PARKER
AUBURN
KIRKVILLE
ROME AAF
396 (126.1R)
CANASTOTA
UTICA
SMITHPORT INC.
MEACHAM-GENESEE
HONEOYE FALLS FLY SER.
SCOTTSVILLE
SENECA FALLS
MASON
SYRACUSE HUR.
270
COLGATE UNIVERSITY
DANSVILLE
212
(116.1)
On request
DANSVILLE
PENN YAN
MORAVIA
SCHOHARIE CO.
WARREN EATON
ELMIRA
385
(116.1)
MERCURY
MARTIN
ITHACA
CORTLAND
CAYUGA
HORNELL
KEYES-ONEONTA
COSTA'S
PAINTED POST
CHEMUNG CO
EAGLE
TRI-CITIES
270
VALLEY
CHEMUNG VALLEY
COMMUNITY
ELMIRA
BINGHAMTON
BOSTON
NEW YORK
CHERRY SPRINGS
TOWANDA
LAKE CARRY
21
SKY HAVEN
NARROWSBURG
WILLIAMSPORT
233
WILKES-BARRE
272
SCRANTON
HUGHESVILLE
WILKES-BARRE
LOCK HAVEN
KINGSTON
DALEVILLE
BARRETT
EAST SCRANTON
MT. POCONO
WILLIAMSPORT
CUB HAVEN
SUNBURY (VHF)
108.3
SUNBURY
353
On request
ALLENTOWN
320
(116.1)
LAKE SUSQUEHANNA
DANVILLE
BLOOMSBURG
REIPENBERG
LEHIGHTON
STROUDSBURG
MILTON
MILTON
SUNBURY
SHAMOKIN
TAMAQUA
EAST PENN
BELLEFONTE
STATE COLLEGE
SELINSGROVE
GORDON
SLATINGTON
12
EASTON
MARTINS CREEK
ALLENTOWN-BETHLEHEM
WASHINGTON 38
TO BUFFALO
TO ALBANY
TO BINGHAMTON
TO NEW YORK
TO HARRISBURG
TO WILKES-BARRE
TO ALTOONA
BUFFALO 20
ALBANY 22
CLEVELAND NEW YORK
BOSTON CLEVELAND
208
178
135
225
118
70
47
55
4000
5000
315
298
45
28
36
50
78
179
313
243
133
283
358
191
197
43
39
74
69
71
100
166
87
17
13
63
345
134
209
101
281
285
284
107
110
287
224
240
290
60
RED 26
RED 29
RED 11
RED 8
RED 12
RED 23
RED 33
RED 71
BLUE
YELLOW
GREEN
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

ALBANY 22


PRESQUE ISLE 9
TO BURLINGTON
NORTHFIELD
MONTPELIER
TICONDEROGA 32 L
WARREN CO. 40H
GLENS FALLS-474 36H L S
On request GLENS FALLS 206 (116.1)
PISECO
SACANDAGA PARK
PLATEAU
HAYDUK
STEENBURGH
CARPET CITY
GLOVE CITY
SCHENECTADY CO. 50H L S
LONG MEADOW
BALLSTON SPA 40H S
SARATOGA SPRINGS 24
SCHUYLERVILLE 29
ALBANY-271 35H L S-278(126.18)
ALBANY 365 (116.1)
FAIR HAVEN
MacARTHUR 40H L S
TWIN STATE 19H S
On request LEBANON 209 (116.1)
LEBANON-579 40H L S
HARTNESS
EQUINOX
CLAREMONT 28H S
NEWPORT 26 S
KEENE
DILLANT-HOPKINS 40H S
BRATTLEBORO-HINSDALE
BENNINGTON
FAIR VIEW FARM
TURNERS FALLS 33 S
STEVENS
TROY 30 L S
COLONIE 5
INTERCITY
SKY HAVEN
VAUGHAN
FORT PLAIN 35 L
AURIESVILLE 27
RED 11
COOPERSTOWN
ADAMS
STEPHENTOWN 45
LaFLEUR 26 S
ORANGE 50H S
MASS 3 D A
GARDNER
BARNES-268 50H L S
WESTOVER AAF 272
METROPOLITAN
SPRINGFIELD 26 S
BROOKFIELD
FARLY S
EAST GREENBUSH 38 S
RAVENA
MEDWAY 28
PITTSFIELD 27 L S
CATSKILL
HALCOTT
GREAT BARRINGTON 28 S
CATSKILL VALLEY
CANAAN
WESTFIELD 230
WESTOVER AAF-244 71H L S-396 (126.18)
KINGSTON
KINGSTON-ULSTER 30 S
BOWLES 40 S
KINSLEY
AGAWAM
SIMSBURY
WATERBURY
BRADLEY 50H
WOODSTOCK
WALLKILL NO. 2 35H
COZINE
FREEDOM PLAINS
NEWBURGH-WALDEN 32 S
WINGDALE 25 S
STEPHENSON
WEATOQUE
RENTSCHLER-40 58H L S-254 (126.18)
MONTGOMERY
MONTICELLO
NEW HACKENSACK NO. 3 35H
LIME RIDGE
MONTGOMERY NO. 1 35H
WURTSBORO 26 S
MATAMORAS 18H S
HARTFORD 329 (116.1)
WINDHAM 44H S
STEWART 236
STORMVILLE
BETHANY
MERIDEN 18
WAPPINGERS FALLS
BROOKFIELD
SALEM
BRAINARD-19 48H L S-278 (126.18)
ELIZABETH AAF 28H L
DANBURY 44H S
SOMERS
HUGUENOT
STEWART AAF-463 61H L S-396 (126.18)
WARWICK-WICKHAM
MERIDEN-102 35 L S-278
WATERFORD
DOANE
LUFBERY
NEW HAVEN 42H S
WEST HAVEN
GROTON 50H
ALLENTOWN 320
NEW YORK 209
CHRISTIE
MILLER
NEWARK 341
PORT CHESTER 24
MITCHEL AAF 227
MONROE
NEW YORK 40
SUSSEX 25 S
WESTCHESTER CO. 50H S
WESTCHESTER
BRIDGEPORT-9 48H L S-269 (126.18)
BOSTON NEW YORK
TO ELMIRA
SYRACUSE 21
TO LAKE GARY
TO CONCORD
BOSTON 23
PROVIDENCE
BOSTON
N.Y. VT.
VT. N.H.
N.H. MASS.
N.Y. MASS
N.Y. CONN.
N.Y. N.J.
BLUE 18
BLUE 4
BLUE 40
GREEN 2
BLUE 41
AMBER 7
RED 13
RED 33
RED 21
122
208
293
144
207
149
239
329
303
252
258
158
63
134
238
224
64
338
240
27
59
143
81
14
34
36
55
88
38
72
92
87
166
84
42
41
44
80
21
8.4
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES OR SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

CONNECTICUT

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BRAINARD (Hartford)	278 (126.18)	C	(4), 131.9, 126.18
BRIDGEPORT ARPT	368 (126.18)	C	(4), 118.1,131.9,126.18
E.HARTFORD (Rentschler)	364 (126.18)	CI	(3) only
HARTFORD (Brainard)	329(HT)(126.1)	SBMRAZ-VDT, 323°, 2.5	(4); 116.1
MERIDEN FM	(- - -)	FM, 244°, 17.6	Hartford
MERIDEN ARPT.	278	CI	3105,4195 (days)

MASSACHUSETTS

WESTFIELD (Barnes)	230 (WJ)	BMRL2-DT, 270°, 1.7	(4)
WESTOVER (Chicopee Falls)(Army)	272 (DO))	BMRAZ	(3)
Westover Field	396 (126.18)	CA(ILS),239°,3.7	(3), 126.18

NEW HAMPSHIRE

LEBANON	206(LP)(126.1)	MHVT	(4), 116.1

NEW YORK

ALBANY Albany Airport	365(AZ)(116.1) 278 (126.18)	SBRAZ-VDT C, 196°, 3	(4), 116.1 (4),126.18,118.1,140.1, 131.9
AURIESVILLE FM	(- - - -)	FM, 302°, 27.3	Albany
COLONIE LFM	(- - -)	LFM,208°,4.5	Albany
GLENS FALLS	208(GB)(116.1)	MHVT	(4), 116.1
MEDWAY FM	(. . . . -)	FM, 206°,27.6	Albany
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
SARATOGA SPRGS FM	(-)	FM, 28°, 24	Albany
STEPHENTOWN FM	(- -)	FM, 324°, 45.3	Westfield
STEWART FIELD	236 (SW)	BMRL2-DT	(4)
Stewart Field	366 (126.18)	CA, 135°, 2.6	(3), 126.18 (7-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in MC's, Compass Locators in ital)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
WESTOVER, MASS.	109.9	333.8	239°Mag	IM (.46)	MM ..... (.79)	OM -- (3.38)
					MMK	OMK
[illegible] MASS.	109.5	332.6	59°Mag	IM (.02)	MM ..... (.72)	OM -- (4.42)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bethany	1.3 N,hwy E	680	21 L2 S6	80,91 oct.No bcn.Lgts
Bradley (Windsor Locks)	2 W,hwy E	171	50h	Antenna S. prior req
BRAINARD(Hartf'd)	2.8 SE,RR W	19	48h R2 L5 S6	80,91,100 oct.Dike E,N.
(N,P) BRIDGEPORT	3.5 ESE	9	48h R1 L5 S4	80,91 oct.No svcg ngts, Sat or Sun.
Brookfield	0.3 S,RR,riv E		10 S6	80 oct.No sto.Data not verified.
Canaan	1 N,RR W	680	24 S6	80,91 oct.No sto.Pole line SW.
Danbury	2.5 SW,RR N	454	44h S6	80 oct.Poleline WSW, SSE.
Doane (Essex)	1.2 SW,RR E,N	30	21 S6	80 oct.No sto.Trees N.
‡ Greenwich	0.8 S	S.L.	Unl.	PRIVATE; Ramp NW, congested harbor.
Groton	2.8 SE,RR W	10	50h	
Kinsley (Somers)	2.5 NNW,RR W	200	19 S4	80 oct.
Lufbery (Wallingford)	0.5 WSW,RR E	80	22 S6	80 oct.No sto.Stacks S. N,
Meriden	2.7 SW,RR E	102	35 R1 L3 S6	80 oct.Hi-line W,S.
Monroe	0.7 SSE,rd E,W	620	20 S6	80 oct.
New Haven	3.5 SSE,crk W	4	43h S6	80,91,100 oct.No sto. Pole line NW.
Rentschler (East Hartford)	1 S,riv W	40	58h R1 L5 S6	80,91,100 oct.
Salem	2.1 E,lake NNE	400	21 S6	80 oct.
Simsbury	2.6 NNE,RR W	170	17 S6	80 oct.Trees SE.
Stephenson(Bristol)	1.5 ESE,RR N	240	18 S6	80 oct.
‡ United Acft Corp, (Stratford)(NC)	2 SW	6	53	Ramp. PRIVATE.
Waterbury(Plymouth	2.6 S,RR E,W	843	20 S6	80 oct.
Waterford	1.7 N,RR SSE	60	20 S6	80 oct.Trees,hill S.
West Haven	2.7 SW,hwy E	15	18 S4	80 oct.No sto.Poleline E,W blckd.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)

CONNECTICUT

ARPT. — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Westport	2 S	S.L.	Unl. S4	80 oct.Float.Marine Ry
Windham	3.5 NNW,hwy S	238	44h S1	80 oct.Trees NE,ENE

MASSACHUSETTS

Adams	1.3 SSE,RR W	1400	18 S1	80 oct.
Agawam Land & Seaplane Base	0.5 S,riv E	50	16 S6	80 oct.Pole line SE.
©Agawam	1 SSE	36	100 S6	80 oct.Ramp,all facs.
BARNES(Westfld)	3 NNE,RR W	268	50h R1 L5 S6	80, 91 oct.
Bowles (Agawam)	2.4 WSW,crk E	190	40 S4	80 oct.Poleline S,SSE,
Brookfield	1 W,RR SW	680	20 S4	80 oct. W,NW.
Fair View Farm (Williamstown)	4 SW,riv E	954	25 S1	90 oct.Poleline ENE. Hill NNE.Lgt acft only
Gardner	2 SW,hwy N	1020	18 S4	80 oct.
Great Barrington	2 WSW,riv N	726	28 S2	80,91 oct.Obst sur fld
LaFleur (Northampton)	1.2 ENE,riv SW, N	120	20 S4	80 oct.No sto.
Metropolitan(Palmer)	5 N,riv W	400	19 S3	73, 80 oct.Hill N.
(P)Orange	1.5 SE,hwy SE	555	50h S1	80 oct.Poles NE.
Pittsfield,3B,AZ-BW	2.4 WSW,hwy NW	1140	27 L3 S1	80 oct.Pole line N.
Smiths Ferry (Holyoke)(NC)	4.5 N	120	95	Obsts NE,SW.
Springfield	2.3 NE,RR S	205	26 S6	80 oct.Bldgs W.
Stevens(N.Adams)	2.8 WSW,RR N	600	14 S4	80 oct.No sto.Poleline
Turners Falls (Montague)	4.2 N	350	33 S6	80 oct.Wooded E. ridge SE,SW.
(A)Westover (Chicopee Falls) (A)	3.8 NNE,riv W	244	70h R3 L6 S6	73,91,100 oct.No sto.

NEW HAMPSHIRE

Claremont	1.3 W,riv NE	520	28h S2	80,91 oct.Wooded ridge
Dillant-Hopkins (Keene)	2 S,riv,RR W	481	40h S6	80 oct. NNE.
Hinsdale-Brattleboro (Hinsdale)	2.7 NW,RR W	360	18 S4	80 oct.Lndg flares prior req.
Keene Arpk.	3 NW,RR W	500	21 S6	No fuel or sto.100'h.ll
Lebanon	3.3 WSW,RR N	579	50h R1 L5 S1	80 oct. SE.
Newport	2 NNW,RR W	780	26 S4	80 oct.Pole line E.

NEW JERSEY

Sussex	1.2 WSW,RR S	420	25 S1	80 oct.200' knoll NNE.

NEW YORK

Accord (NC)	0.7 N,RR S	260	19	Trees S,NE,SW.
‡ Adirondack(Eagle	0.3 S	1707	70 S1	80 oct Beach.
ALBANY (Bay)	6.9 NNW,riv N	271	35h R2 L5 S6	80,91,96 oct.ARPT OF
(P)Ballston Spa	3 N,RR E	433	40h L5 S6	80,91 oct. ENTRY.
Briggs(Carlisle)	0.6 SE,RR W	1320	12	
Carpet City (Amsterdam)	6 N,rd NW	887	18 S6	80 oct.Use strips only
Catskill(Cairo)	2 E,hwy S	300	16	Trees sur fld.
Catskill Valley (Catskill)	1.5 SW	100	23 S3	80 oct.Data not verif.
Christie(New City)	1.5 N,RR E	150	16 S4	80 oct.Pole line SW.
Cooperstown	1.4 NNW,RR SE	1660	16 S4	80 oct.Pole S.
Cozine(Rhinebeck)	0.5 SE,RR W	200	20 S1	87 oct.Poleline W.
‡ Dobbs Ferry(NC)	9.5 SW	5	100	Marine Ry.Ramp, winch, float.
East Greenbush	0.8 NW,RR W	260	38 S6	80 oct.Pole line N
(A)Elizabeth (Fisher's Island)(A)	W end Island	7	29h L4	No beacon.
Farly's (New Baltimore)	3 S,RR W	10	20 S1	80 oct.Trees N.
* Ft.Plain Int,40A,	3 NNW,RR NE	680	35 L3	(CV-AZ)
Freedom Plains (Billings)	2 W,rds N,E	340	10 S1	80 oct.Pwrline S.
Glens Falls,18,LG-UL	2.6 NW,rd S	474	36h R1 L3 S6	80 oct.
Glove City	1.5 NE,RR S	860	17 S1	80 oct.(Gloversville)
Halcott(Halcott Ctr)	1 N		10 S1	80 oct.Data unverif.
‡ Hall's(Lake George)	0.5 E	330	52 S1	73 oct.Ramps,all facs.
Hayduk(Herkimer)	0.6 SSW,RR N	400	12 S4	Ltd 80 oct.Poleline E.
Huguenot(Port Jervis	3.3 NE,RR SE	480	21 S6	80 oct.Trees SW.
Intercity	3.6 SSE,RR NE	340	20 S4	80 oct.(Schenectady)
Kingston	1.5 NW,RR S	150	17 S4	80 oct.Pole line NW.
Kingston-Ulster (Kingston)	2.7 N,RR E	160	30 S4	80 oct.No sto.Pole line E.
‡ Knox Bay (Piseco) (NC)	1.5 S	1661	163	PRIV.Boat,beach,tractor.
Line Ridge (Beekman)	1.3 SE,RR S	420	16 L2 S6	80 oct.All lgts prior request.

(NC)-Not charted.

NEW YORK

ARPT.— CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Long Meadow (Rexford)	1.5 NE,RR N,W	380	17 S1	80 oct.Poles NNE.RR S
Miller (Nyack)	1.8 WNW,riv E	70	17 S6	80 oct.No sto.Poleline
‡ Montauk Yacht Club (NC)	2.5 NE	S.L.	Unl. S1	87 oct.avail. SW. Mar.-Oct. Buoys,floats
Montgomery	1 WSW,riv W	393	22 S6	80 oct.Trees N,brushE
(A)Montgomery U.S. Mil.Academy #1	2 SW	355	35h	CLOSED. (A)
Monticello-Sullivan Co.	1.4 N,RR E	1500	21 S1	80 oct.Windmill SSE.
Newburgh-Walden (Walden)	2.2 SSW,riv W	404	32 S6	73,80 oct.Obsts sur fld.
(A)New Hackensack, U.S.Mil.Acad.#3	0.5 W	156	35h	Obsts NE.CLOSED. (A)
‡ Otsego(Coopers-town)	Adj NNE	1194	Unl. S1	80 oct.Float,ramp, winch, buoys.
Ⓟ Pickair(Ossining)	0.5 W	3	158 S4	80 oct.Boat,ramp.
Piseco	0.5 N,hwy SW	1710	19 S2	Ltd 80 oct.Trees, brush NNE.
Plateau(Northv'l)	2.5 E,riv ESE	1040	24 S1	Ltd 73,80 oct.Trees S.
Randall's (Middletown)	1.8 ESE,RR NW	520	20 S1	80 oct.
Ravena	1.2 N,riv 2 E	180	14 S2	80 oct.Lgt acft only.
Rockland(New City)	1 SSE,RR E	240	12	Trees W,hwy E.
Ⓘ Round Lake (NC)	0.5 E,RR S,W	188	48 S6	80 oct.Beach,boat, tractor.
Sacandaga Park (Northville)	1 SW,RR W	770	13 S1	80 oct.Pole line WSW.
† Sag Harbor (NC)	0.5 N	5	103	PRIV.Ramp,tractor.
Schenectady Co.	3 N,RR SE	362	50h L5 S6	80, 91, 100 oct.
Schuylerville,Land & Seaplane Base	2.5 S,riv E	100	29	Trees N,S.
Selkirk (NC)	2.7 E,riv E	160	22	Trees N.
Sky Haven(Delanson)	0.9 NW,RR SE	1100	14 S2	80 oct.ESE,W blocked.
Somers	0.6 SE,RR E,S	563	17 S4	80 oct.No sto.
Starhaven(Middletown)	1.3 NW,RR SW	750	29	Trees SW,SE,NW,RR N
Steenburgh Avia. Svc.(Gloversv'l)	1.5 ENE,RR N	900	8 S1	80 oct.
(A)Stewart(Newburgh)	4 W,hwy N	463	61h R2 L5 S6	91,100 oct.Twr W.(A)
Stone Arabia (Fort Plains)	3.6 ENE,hwy E	880	18	Pole line NNW.
Stormville	1 ENE,RR S	350	23 S4	80 oct.No sto.Trees NE
* Ticonderoga Int, 22, LG-UL	2.7 NNE,rd E	210	32 L3	Obsts sur fld.
Troy	2 SSE,riv W	327	30 L4 S6	73,91 oct.Trees NW.
Valley Air Park (Middleburg)	1.5 NNW	635	16	Data not verified.
Vaughan(Johnstown)	1 E,hwy W	760	18 S1	Ltd 80 oct.Trees W.
(A)Wallkill, U.S.Mil. Acad. #2 (A)	3 NW,riv E	340	35h	CLOSED.
Wappingers Falls	0.9 SE,rd S	152	21 S4	80 oct.Pole line E,W,S
Warren Co.	2.4 NNE,rd N	325	40h	(Glens Falls)
Warwick-Wickham	4.5 NE,RR W	540	24 S4	80 oct.Ridge N
Westchester(Armonk)	0.5 SSE,riv E	380	18 S6	80,91 oct.Trees sur fld.
Westchester Co. (White Plains)	4 NE,lake W	435	50h L5 S6	80,91 oct.No sto.All lgts prior req.FEE
White (Bedford)	3.6 SE,hwy E	475	12	
Wingdale	1.5 NE,RR W	400	25 S4	80 oct.No sto.ROUGH
Wurtsboro	2 NE,RR E,SE	560	26 S6	80 oct.Obsts sur fld.

PENNSYLVANIA

Matamoras	0.5 SSE,riv SE	450	18h L4 S6	80 oct.No bcn.Lgts prior req.

VERMONT

Bennington	2.5 WNW	830	13 S1	80 oct.470' hill WNW
Equinox(Manchester)	1 E,riv E,N	700	18 S6	80 oct.Poleline,mtn E
Fair Haven	1.5 N	370	20 S2	80 oct.Hills sur fld.
Hartness	3.8 NNW,riv E	570	20 S6	80 oct.(Springfield)
Rutland	5.8 SSE,hwy W	784	40h L3 S4	80 oct.No sto.All lgts prior req.
Twin State (White River Junction)	1 SW,riv,RR E	540	19h S6	80 oct.Hill NW.

RADIO

MAINE

LOCATION	FREQS. IDENT	STA. CLASS, BEAR. & DIST	FREQ., GUARD HRS. OF OPER, REMARKS
BRUNSWICK NAS	382 (NSM)	SBRAZ, 84°, 4	(3)
PORTLAND	206(PW)(116.1)	BMRLZ-VDT, 149°, 2.2	(4), 116.1
YARMOUTH FM(Navy)	(- - -)	FM, 264°, 11.4	Brunswick NAS

MASSACHUSETTS

BEDFORD (Navy)	522 (DBH)	MH	Oper cont.
Bedford AAF	212 (126.18)	CA	(3), 126.18
BOSTON (Logan)	263(BW)(116.1)	SBRAZ-VDT, 238°, 2.2	(4), 116.1
BRANT ROCK FM(Navy)	(- -)	FM, 141°, 20.2	Squantum NAS
EASTON FM (Navy)	(- - -)	FM, 218°, 17.7	Squantum NAS
EVERETT LFM	(- - - -)	LFM, 298°, 4.2	Boston
FRANKLIN FM	(. . - - -)	FM, 238°, 28.7	Boston
LOGAN (Boston)	278 (118.7) (126.18)	AC	(4), 131.9, 118.7, 126.18
PEABODY FM	(-)	FM, 310, 9	Boston
SOUTH BOSTON LFM	(- - -)	LFM, 238°, 4.7	Boston
SOUTH WEYMOUTH (Navy)	420 (NFR)	BMRLZ	(3), 142.74 days on req.
South Weymouth NAF	3295 (142.74)	CN, 82°, 3.1	3), 142.74, (8-1630, Mon.-Fri.)
SQUANTUM (Navy)	472 (NZW)	BMRLZ	3), 128.7
Squantum NAS	323 (142.74)	CN, 321°, 3.5	3105, 4495; 142.74 (7-sunset 1 hr. advance notice)

NEW HAMPSHIRE

BOSCAWEN FM	(- - - -)	FM, 332°, 14.2	Concord
CONCORD	251 (CN)(116.1)	BMRLZ-VDT, 327°, 2.1	(4), 116.1
GRENIER(Manchester) (Army)	338 (DUR)	SBRAZ	
Grenier Field	278 (126.18)	CA(ILS), 352°, 4	(3), 126.18

RHODE ISLAND

CHARLESTOWN NAAS	3295 (142.74)	CN	3105; 142.74 (GCA)
GREENE (Providence)	278 (126.18)	C	(4); 116.1, 131.9, 126.18
PROVIDENCE(Greene)	347 (PR)	BMRLZ-DT, 480, 3.5	(4)
QUONSET POINT(Navy)	356 (NCO)	BMRLZ	3105; 142.74
Quonset Point NAS	227(142.74) (126.18)	CN, 339°, 2.3	(3); 142.74, 140.58, 126.18

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
GRENIER, N.H.	109.5 :::	332.6	352°Mag	IM (.02)	MM (.71)	OM (5.00)	
				MNK 201 --- (.71)	ONH 219 --- (5.00)		

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CONNECTICUT

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Fostoria (Stonington)	1 NE, RR S	5	18 S4	80 oct. Lgt acft only
Plainfield	1.5 SSW, RR E	160	21 S6	80 oct.
*Putnam Int, 14, LG-BW	1.7 WSW, riv E	460	22 L3	Pole line N; poles NE

MAINE

Biddeford	2 SSW, RR NW	110	22 S2	80 oct. Poleline SE.
(N)Brunswick NAS(N)	1.5 SE, RR N	77	60h R1 L6 S6	91, 100 oct.
Douglas (Brunswick)	3.5 W, RR SE	170	15	
‡Frank L. Sample, Jr. (Boothbay)(NC)	Adj.	S.L.	Unl. S1	Fuel, ramp, float.
Hilltop (West Buxton)	0.8 WSW, RR S	300	22 S4	80 oct. Poleline ESE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Merrymeeting (Bowdoinham)	1 SSE, riv E	60	18 S1	80 oct. Trees N, S.
‡ Naples (NC)	0.5 NNW	267	160 S1	80 oct. Boat.
New Meadows (Bath)	2.3 WNW, RR S	12	60	Beach, N, S appchs blocked.
PORTLAND	2 W, riv E	60	43h R1 L5 S6	80, 91 oct.
Port of Maine (South Portland)	1.8 SSW, RR E	40	22 S3	80 oct. Poleline SSE, NE, SW.
Riverside Airpark (Brunswick)	1 WNW, RR S	60	23 S1	80 oct. Trees NNW. Hwy S.
‡ Riverside Airpark (Brunswick)(NC)	1 WNW, RR S	60	23 S1	Hwy S. (NC)
(P)Sanford	4 SE, hwy N	243	60h L5 S6	80, 91 oct.
Scarboro	2 W, RR SSE	20	25 S2	80 oct.
Kennebunk	2 S, rd E	120	20 S2	80 oct. Trees S. Data not verified.
Riverside(Brunswick)	1 WNW, riv E	60	20 S2	80 oct. Data unverified
Stover (Freeport)	4 NNW	200	12 S2	80 oct. Data unverified

MASSACHUSETTS

Ames (Brockton)	3 WSW, RR W	120	20 S6	73 oct. RR S.
Auburn	2 SW, RR W, E	700		
Ayer	1.5 NW, riv W	268	52h	
(A)Bedford AAF (A)	1 S	128	50h R2L5 S6	80, 100 oct.
Beverly CGAF	3 NW, lake E	108	50h S1	80, 91 oct. Svcg mil. acft on req.
Bolton (Clinton)	2.3 NE, RR W	400	17 S6	80 oct. Trees around fld. RR S.
Boston-Metropolitan (Canton)	1 W, riv W	50	21 S6	80, 91 oct.
Brockton	2 S, hwy E	128	15 S6	80 oct. Poles E, W.
Cape Cod (West Barnstable)	2.1 SW, lake SW	100	25 S2	80 oct.
Country Club(Wareham) (NC)	1.3 E, riv S	25	17	Pole line, trees N.
Chatham	1.7 WNW, hwy S	66	14 S4	80 oct. Pole line N.
‡ Chatham (NC)	Adj W	S.L.	33 S2	Fuel. Ramp, dolly, buoy
Edgartown (NC)	2 S, rds E, NW	20	25	Pole line NE.
Falmouth (NC)	6.4 NNE, pond SW	100	20	Adj Otis NAAS.
Fitchburg	2.5 SE, bet RRs	334	45h S6	80 oct. Knolls, dike S.
Franklin-Norfolk (Norfolk)	2.5 WNW RR SSE	140	30 S4	80 oct. No sto. Pole line S.
Grafton (No. Grafton)	0.7 SSW, riv N	450	30 S6	80 oct. Wooded hill S
Groton	4.6 WNW, RR W	280	28 S6	80 oct.
Haverhill	2 NNE, lake S	125	17 S6	80 oct. Stack S; pole line NW.
HYANNIS	1.2 N, RR E	56	41h S4	80, 91 oct.
‡Jubilee Yacht Club (Beverly) (NC)	Adj S	S.L.	105 S1	Fuel. Beach, dock. Avail. May-Oct.
King (Taunton)	4.5 ESE, RR N	45	26 S6	73 oct. Poleline NNE.
(P)LAWRENCE	2.5 ENE, lake E	155	40h L5 S6	91 oct. Pole line SSE.
Leicester	2 N	1140	15h S4	80 oct. Reservoir SE.
(A,N) LOGAN (Boston)	1.5 E in harb.	12	35 R2 LA S6	80, 91, 100 oct. INACTIVE. Rdo req.
Mansfield (NC)	2 SSE, RR NE	124	25 S2	No fuel. Poleline NW, NE.
⊕Merrimack Valley (Lawrence) (NC)	2 E	7	83 S4	Fuel. No sto. Ramp, float. Data unverified.
Marlboro	2.4 E, RR WSW	265	15 S2	80 oct. Ridge SSE, NNW
MARTHA'S VINEYARD (Vineyard Haven)	4.3 S, rd S	68	38h L5 S2	80, 91 oct. Lgts prior req. Obsts SE side.
Mendon	0.3 S, lake W	450	18 S4	80 oct. No sto. Pole line N, NW.
Myricks	0.8 N, RR SW	65	20 S4	80 oct. Pole line S.
NANTUCKET	2.6 SE, rd N	47	40h L S6	80 oct. Port. rnwy lgts.
(P)New Bedford	2.5 NNW, RR W	78	50h	RR S.
Norwood	1.8 E, riv E	55	40h S1	80, 91 oct.
Oak Bluffs	0.8 SW, rd W	20	20 S4	80 oct. Trees E, SE.
(N)Otis NAAS(Falmouth)	9 NNE	126	70h	INACTIVE. (N)
Plum Island (Newburyport)	2.3 SE, riv N	15	25 L1 S6	80 oct. Pole line E.
Providence (Seekonk)	2.1 ESE, rd NE	25	17 S4	80 oct. Pole line NNE
Rowley (NC)	1.5 NW, hwy W	40	14	HAZARDOUS. EMERG ONLY.

MASSACHUSETTS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N)Salem CGAS (N) (NC)	2.5 E	S.L.	150 S4	91, 100 oct. Ramps.
Shawsheen Pines (Billerica)	2.7 E, RR NE	110	17 S4	80 oct. No sto. Trees NE, E, SE.
Sherman Memorial (Mansfield)	3 SSW, RR W	130	17 S1	73 oct. Trees sur fld
(N)South Weymouth NAF	1.5 SSE, RR W,	152	45 R2 L5 S4	100 oct. B-2 lgts. (N)
(N)Squantum NAS (N)	0.8 W, bay N	10	41h R2 L5 S4	91, 100 oct. No sto. No ngt flying.
(N)Squantum NAS (N)(NC)	0.8 W	10	Unl S4	73-100 oct. Ramps, buoys.
‡ Swansea (NC)	2.5 SSW,	0	211	Float, buoys, beaching
Westboro	1.9 WNW, hwy N	310	15 S6	80 oct. Rnwy data unverified.
Wilkins (No. Attleboro)	2 NE, lake NW	200	18 S6	80 oct. Poleline ESE
WORCESTER	3.5 W, RR SE	1009	55h	

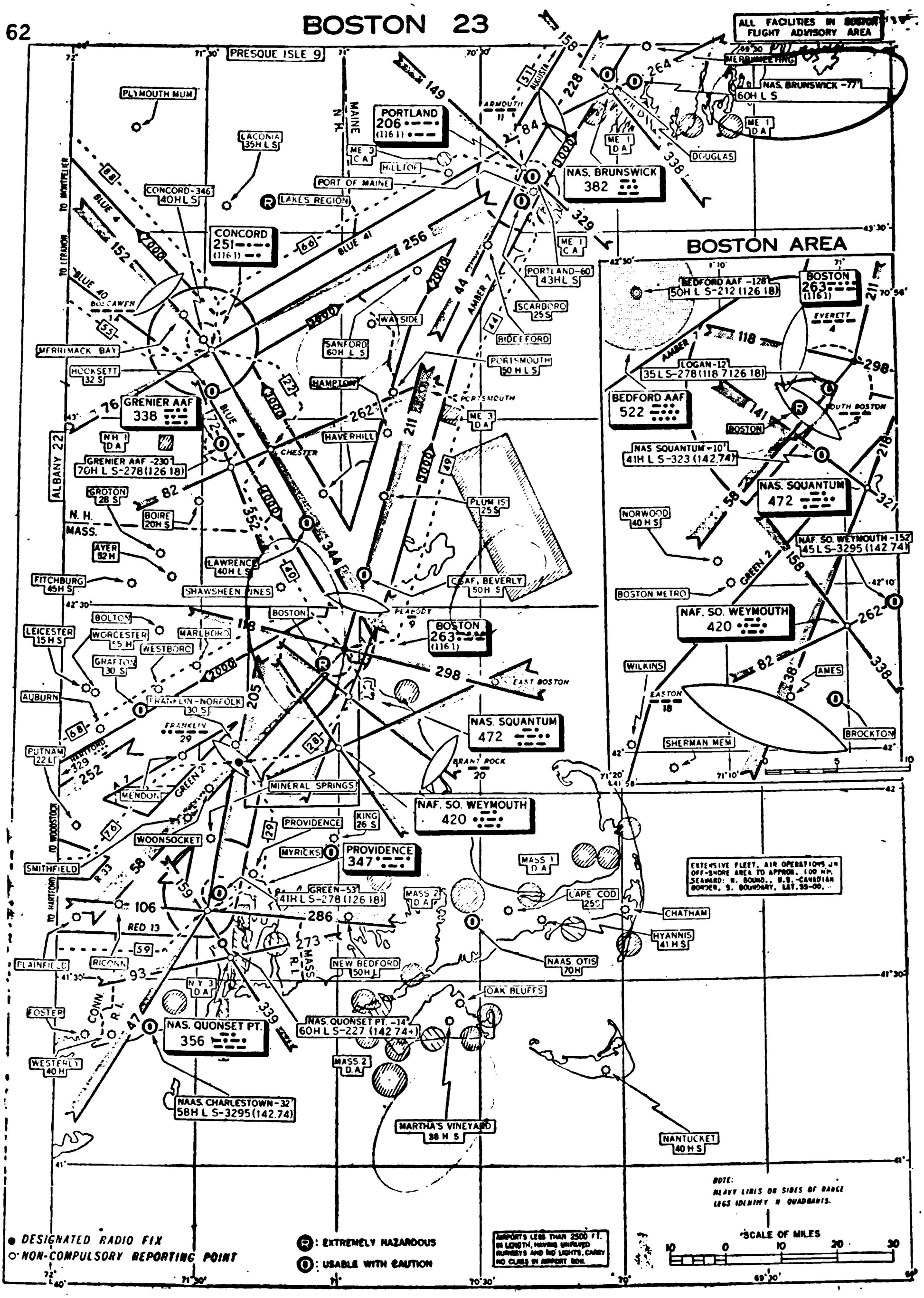
NEW HAMPSHIRE

Boire (Nashua)	2.8 WNW, RR N	185	20h L3 S6	80 oct. Lgts prior req
CONCORD	1.5 E, riv W	346	40h R1 L5 S6	80, 91 oct. Pole S.
Daniel Webster (Nashua)	3.5 NW, riv E	192	24 S6	80, 91 oct. Data not verified.
(A)Grenier (Manchester)	4 S, RR E	230	70h R3 L5 S6	73, 91, 100 oct. (A)
Hampton	1.6 N, RR W	80	22 S5	80 oct. No sto. Trees N, S.
Hooksett Land & Seaplane	2 S, RR E	187	32 S6	80 oct. No sto.
⊕Hooksett (NC)	2 S	2	80 S6	80 oct. Beach, ramp, tractor
‡ Interstate Airways (Alton Bay)(NC)	Adj N	504	Unl S1	80 oct. Ramp, buoys, wharf.
Lakes Region (Wolfeboro)	2.6 W, RR E	580	14 S6	80 oct. No sto.
⊕Lakes Region (Wolfeboro) (NC)	2.7 W	504	60 S6	80 oct. Ramp, all facs
‡ Lake Winnepesaukee (Wolfeboro) (NC)	3 WSW		60 S1	80 oct. Data not verified.
Merrimack Bay (Concord)	5 NNW, RR W	260	15 S2	80 oct. Poleline S.
⊕Paugus Bay (Lakeport) (NC)	1 NE	504	100 S4	73 oct. Beach, boat, ramp.
Plymouth Mun. Arpk.	3.5 WNW, RR N	506	18 S2	Ltd 80 oct. Poleline N
(P)Portsmouth	3 W, bay W	94	50h L5 S6	80, 91 oct.
Wayside(Sommersworth)	2.4 W, RR N	200	12 S2	80 oct. Trees SSE.
⊕Weirs (The Weirs)	0.3 SE	504	210 S4	80 oct. Ramps. (NC)
‡ Wolfeboro (NC)	0.5 SE	504	180 S1	80 oct. Boat, wharf.

RHODE ISLAND

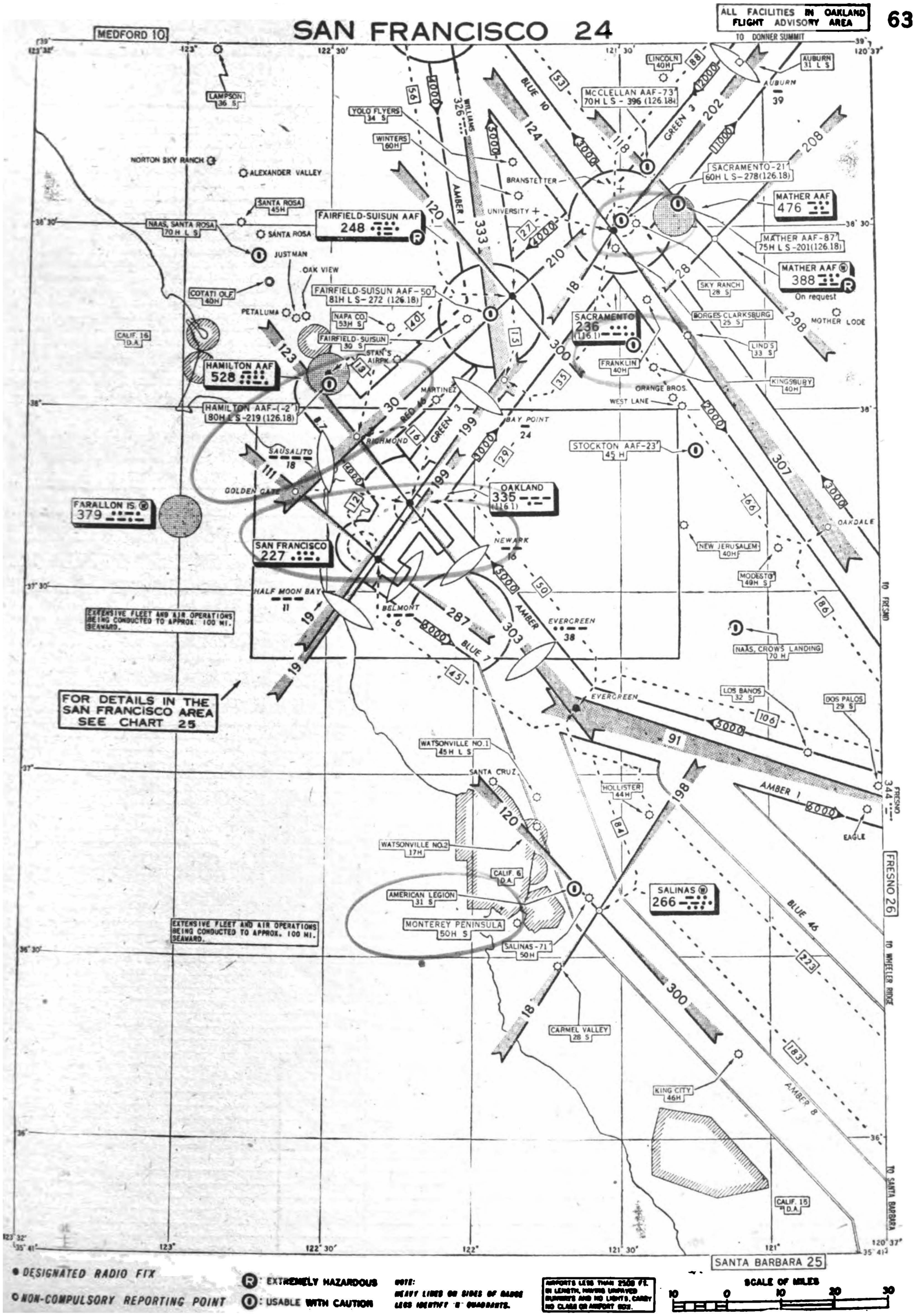
(N)Charlestown NAAS (N)	1.9 SW, hwy N	32	58h R1 L5 S1	91, 100 oct. No bcn.
Greene (Providence)	7 S, RR W	53	41h R2 L5 S6	80, 91 oct.
Mineral Springs (Providence)	4.6 NW, hwy E	240	11 S4	73 oct. No sto. Trees surround field.
‡ Newport (NC)	2 NW	S.L.	Unl	
(N)Quonset Point NAS(N)	16.5 S Prov'd.	14	60h R2 L5 S6	91, 100 oct.
(N)Quonset Point NAS(N) ⊕ (NC)	16.5 S Prov'd.	S.L.	Unl L5 S6	91, 100 oct. Ramp, all facs.
Riconn (Greene)	1.8 WNW, RR S	390	15 S4	80 oct.
Smithfield	1 NE, RR W	400	17 S6	73 oct.
Westerly	2.4 SSE	81	40h	Riv. E.
Woonsocket	2.5 E,	400	20 S2	80 oct. Riv WSW.

BOSTON 23


ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
PRESQUE ISLE 9
PLYMOUTH MUM
LACONIA 35H L S
CONCORD-346 40H L S
CONCORD 251 (116 1)
LAKES REGION
PORTLAND 206 (116 1)
ME 3 C A
HILLTOP
PORT OF MAINE
ARMOUTH 11
AUGUSTA
MERRIMEETING
NAS. BRUNSWICK -77' 60H L S
ME 1 D A
NAS. BRUNSWICK 382
DOUGLAS
ME 1 C A
PORTLAND-60 43HL S
SCARBORO 25 S
BIDDEFORD
PORTSMOUTH 50 H L S
SANFORD 60H L S
WATERSIDE
HAMPTON
PORTSMOUTH
ME 3 D A
HAVERHILL
CHESTER
PLUM IS 25 S
GRENIER AAF 338
NH 1 D A
GRENIER AAF -230' 70H L S-278 (126 18)
HOOKSETT 32 S
MERRIMACK BAY
GROTON 28 S
BOIRE 20H S
AYER 52 H
FITCHBURG 45H S
LAWRENCE 40H L S
SHAWSHEEN PINES
C.G.A.F. BEVERLY 50H S
PEABODY
BOSTON
BOSTON 263 (116 1)
BOLTON
WORCESTER 55 H
MARLBORO
WESTBORO
GRAFTON 30 S
LEICESTER 15 H S
AUBURN
FRANKLIN-NORFOLK 30 S
FRANKLIN 29
PUTNAM 22 L
HARTFORD
MENDON
MINERAL SPRINGS
NAS. SQUANTUM 472
GRANT ROCK 20
NAF. SO. WEYMOUTH 420
PROVIDENCE
KING 26 S
WOONSOCKET
MYRICKS
PROVIDENCE 347
SMITHFIELD
GREEN-53 41H L S-278 (126 18)
MASS 2 D A
MASS 1 D A
CAPE COD 25 S
CHATHAM
HYANNIS 41 H S
NAAS. OTIS 70H
NEW BEDFORD 50H L
MASS. R.I.
N Y 3 D A
OAK BLUFFS
FOSTER
CONN. R.I.
NAS. QUONSET PT. 356
NAS. QUONSET PT. -14' 60H L S-227 (142 74+)
MASS 2 D A
WESTERLY 40 H
NAAS. CHARLESTOWN-32' 58H L S-3295 (142.74)
MARTHA'S VINEYARD 38 H S
NANTUCKET 40 H S
BOSTON AREA
BEDFORD AAF -128' 50H L S-212 (126 18)
BOSTON 263 (116 1)
EVERETT 4
LOGAN-12 35 L S-278 (118 7126 18)
BEDFORD AAF 522
SOUTH BOSTON 5
BOSTON
NAS SQUANTUM -10' 41H L S-323 (142.74)
NAS. SQUANTUM 472
NORWOOD 40 H S
NAF. SO. WEYMOUTH -152' 45 L S-3295 (142.74)
BOSTON METRO
GREEN 2
NAF. SO. WEYMOUTH 420
WILKINS
EASTON 18
AMES
BROCKTON
SHERMAN MEM
EXTENSIVE FLEET AIR OPERATIONS IN OFF-SHORE AREA TO APPROX. 100 NM. SEAWARD: N. BOUND., U.S.-CANADIAN BOUNDARY, S. BOUNDARY, LAT. 39-00.
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS. CARRY NO CLASS IN AIRPORT SOIL

SAN FRANCISCO 24

ALL FACILITIES IN OAKLAND FLIGHT ADVISORY AREA



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓤ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" CORRIDORS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, PAVED UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SIZE.

SCALE OF MILES
10 0 10 20 30

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUBURN FM	(-)	FM, 22°, 39	Sacramento
BAY POINT FM	(-)	FM, 19°, 24	Oakland
BELMONT FM	(. - -)	FM, 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM, 123°, 37.5	Oakland
FAIRFIELD-SUISUN, (Fairfield)(Army)	248 (DFA)	SBMRAZ-DT	(3);126.18 cont.; 4220 kcs on req.
Fairfield-Suisun AAF	272 (126.18)	CA; 210°, 4.7	(3); 126.18
FARRALLON ISLAND	379 (FQ)	HW	
HALF MOON BAY FM	(- - -)	FM, 199°, 11	San Francisco
HAMILTON, (San Rafael)(Army)	529 (DHF)	HZ	
Hamilton Field	219 (126.18)	CA; 160°, 2.1	(3), 6500; 126.18, 4220 kcs on req.
MATHER, (Sacramento)(Army)	388 (DIM)	MRLWZ	Req. 1 hr. notice.
Mather Field	201 (126.18)	CA; 298°, 8.9	(3); 126.18
Mather Army (H fac.)	476 (DIM)	H	
McCLELLAN, (Sacramento)	396 (126.18)	CA	(3); 126.18
NEWARK FM	(- -)	FM, 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	SBRAZ-VDTX, 199°, 0	(4); 116.1
SACRAMENTO	236 (SZ)(116.1)	SBMRAZ-VDT	(4); 116.1
Sacramento Airport	278 (126.18)	C; 22°, 1.7	(3); 126.18
SALINAS	266 (DZS)	MRLW-DT, 310°, 2.4	(8-18)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT, 291°, 3.6	(4)
SANTA ROSA NAAS	3295 (142.74)	CN	(3); 142.74 (req only)
SAUSALITO FM	(- - - -)	FM, 278°, 17.5	Oakland

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alexander Valley (Healdsburg)	3.7 ENE;riv NE	180	19 S1	73 oct. Hill SSE.
Amador Co. (Jackson)(NC)	2 NW;hwy S	1450	15	Trees S.
American Legion (Salinas)	1.8 NNW	67	31 S4	80,91 oct.No sto.Portable rnwy lgts on req.
★ Auburn Int.10,SP-SL	3.3 N;RR SE	1510	31 L3 S6	80 oct.
Borges-Clarksburg (Clarksburg)	2.4 NNE;riv SE	15	25 S6	80 oct. No sto. Power line E.
Branstetter (Sacramento)	3 NNW;RR E	30	30 S6	73, 80 oct. Data not verified.
Carmel Valley	12.5 ESE;riv S	450	28 S4	80 oct. No sto.
(H) Cotati OLF (N)	1.5 N; RR E	94	40h	INACTIVE. Wires E.
(N) Crows Landing NAAS (N)	2.5 NW;RR E	166	70h	INACTIVE.
Dos Palos	1.6 S;RR W	146	29 S6	80,91 oct. No sto. Pole line S.
Eagle (Dos Palos)	6.5 SW;creek N	167	23 L1 S4	80, 91 oct. No sto.
Fairfield-Suisun	1 E;RR N	7	30 S5	80 oct. Poles N, S.
(A) Fairfield-Suisun AAF(A)	5.5 NE	50	81h R2 L5 S4	73,91,100 oct. FOREIGN CLEARING STATION.
Franklin (Stockton)	5.5 SSE of Franklin	21	40h	River E.
(A) Hamilton (San Rafael)(A)	6.5 NNE;bay E	-2	80h R2 L5 S6	73-100 oct. JP-1. Twrs W.
Hollister	2.9 N; RR SW	234	44h	
Justman (Petaluma)	1.5 ENE;RR SW	25	16 S4	80 oct. No sto.
King City	1.5 NNE;RR W	360	46h	
Kingsbury (Stockton)	6 WSW of Lodi	15	40h	RR NE.
Lampson (Lakeport)	4 SSE;hwy S	1300	36 S2	73 oct. Poles SE.
Lincoln (Sacramento)	3.2 WNW;RR NE	120	40h	
Lind's (Lodi)	4.8 N;hwy E	54	33 S6	80 oct. No sto. Poles E.
Los Banos	1.2 W; canal S	126	32 S6	80,91 oct. No sto. Poles S.
(A) McClellan (Sacramento)(A)	9 NE;RR SE	73	70h R1 L5 S4	62,73,91,100 oct. JP-1.
Martinez	0.8 N;RR S	6	20 S6	80 oct. Hill WSW.
(A) Mather (Sacramento)(A)	10.5 E;RR NW	87	75h R2 L5 S6	91,100 oct. No sto.
Modesto	2.2 ESE;riv S	100	40h L1 S6	73,80 oct. Beacon prior req.
(P) MONTEREY PENINSULA	3.4 ESE;bay N	220	50h L2 S1	80,91 oct.Lgts prior req.Data unverified.
Mother Lode (Val'y Sprgs)	6.6 NE;hwy S	1600	17 S2	80 oct. Pole line ESE, S.
(P) Napa Co. (Napa)	5.5 S;riv W	37	53h L5 S4	73,80,91 oct.No sto.Fld lgts prior req.
New Jerusalem(Stockton)	8 ESE of Tracy	56	40h	River E.
Norton Sky Ranch (Healdsburg)	5.2 NNW;RR E	225	23 S4	73,80 oct.No sto.Pole line NW.
Oak View (Petaluma)	3.3 ENE;RR SW	50	20 S1	80 oct.Pole line WNW.
Orange Brothers (Stockton)	5 N	23	20 S6	80 oct. Poles W.
Petaluma	1.7 N;RR E,W	30	15 S1	80 oct.
(P) SACRAMENTO	4 S;RR W	17	60h R2 L5 S1	80 oct. Pole line E.
Salinas	2.5 SE;RR SW	71	50h	
Santa Cruz	4.8 E;RR W	96	24 S1	73 oct.
Santa Rosa	7 NW;RR E	118	45h	
Santa Rosa Airpark	2.8 NNW;RR SW	170	22 S1	73, 80 oct.
(N) Santa Rosa NAAS (N)	2.5 SW;RR E	110	70h R1 L5 S4	91,100 oct, No sto.
Sky Ranch (Sacramento)	4 SSE;RR W	26	28 L S5	80,91 oct. Pole line SE.
Stan's Airpark (Vallejo)	2.5 NNW;RR E	5	24 S4	80 oct.
State Forestry (Davis)(NC)	3 E;hwy N	228	26	Power line W.
(A) Stockton (A)	4 SSE;RR W, SW	23	45h	INACTIVE.
University (Davis)	2.5 W	65	35 S4	80 oct. Data not verified.
(P) Watsonville #1	2.6 NW;bay SW	160	45h L5 S6	Fuel.
Watsonville #2	3.8 SSW;bay W	125	17h	
West Lane (Stockton)	4.1 N;RR W	25	25 S1	73, 80 oct.
Winters Flight Strip (Davis)	6.2 WNW;hwy W	97	60h	
Yolo Flyers (Woodland)	5.5 W;hwy E	75	34 S4	80 oct. No sto. Poles E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMEDA NAS	257(126.18,142.74)	CN	(3); 126.18,142.74
NAS (Seaplane)	2870	CN	2870
BAKERSFIELD (Kern Co.)	239(HD)(116.1)	SBMRAZ-VDT;141°,1.5	(4);,116.1
BELMONT FM	(. - -)	FM; 107°, 5.8	San Francisco
BELMONT	356 (P)	FMK; 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM; 123°, 37.5	Oakland
HALF MOON BAY FM	(- - -)	FM; 199°, 11	San Francisco
KERN COUNTY, BAKERSFIELD	278 (118.5)	C (ILS)	(4);126.18,131.9,118.7
LEDEC FM	(- -)	FM, 141°, 42	Bakersfield
LIVERMORE NAS	350 (142.74)	CN	(3);142.74 (8-17 Wed - Fri, 8-1815 Sat - Sun)
MOFFETT NAS (Mountain View)	329%	CN	(3);126.18,142.74
MOUNTAIN VIEW (Navy)(Moffett NAS)	323 (NUQ)	BMRLZ 320°, 1.9	(3);126.18,142.74
NEWARK FM	(- -)	FM; 123°, 16	Oakland
NEWARK	371 (O)	FMK: 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	SBRAZ-VDTX	(4); 116.1
Oakland Airport	278 (126.18)	C (ILS) 199°, 0	(4);126.18,118.7,131.9(OCA)
POINT MUGU NAP	338 (142.74)	CN	3105, 6210;142.74 (8-20)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT	(4)
San Francisco Airport	269 (126.18) (118.9)	C;291°, 3.6	(4); 126.18, 118.9,131.9
SANTA BARBARA	230(OY)(116.1)	BMRLZ-VDT	(4); 126.18,142.74, 116.1
[redacted]	278 (118.7)	C; 74°, 2.2	(4);118.7,126.18,142,74 (7-23)
SANTA ROSA NAAS	3295(142.74)	CN	(3); 142.74 (req only)
SAUSALITO FM	(- - - -)	FM; 278°, 17.5	Oakland

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO, CALIF.	109.9		300° Mag.	IM ..... (.07)	MM ..... (.80)	OM -- (4.71)
					MMK	OMK
OAKLAND, CALIF.	109.9		273° Mag.	IM .....(.12)	MM	ON -- (2.00)
					MMK	ONK

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station; (3)-3105,4495.6210 kcs. (4)-3105,4495.6210.3117.5 kcs

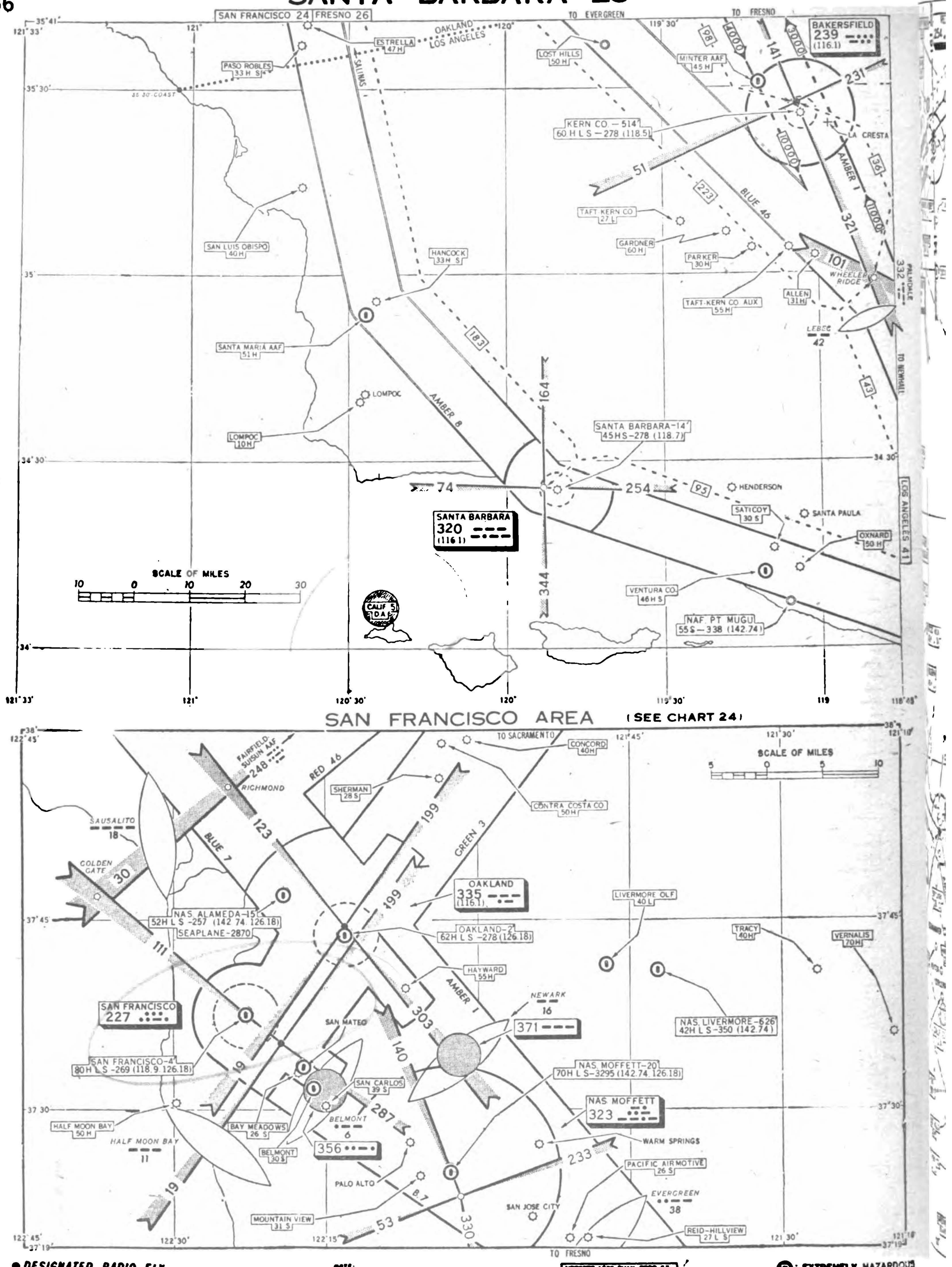
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Alameda NAS (N)	4.5WNW;bayS,W	15	52h R1 L5 S6	91,100 oct. No sto. NAVC
Allen (Taft)	26 ESE	500	31h	
Bakersfield-Kern Co.#2(Bakersfield)(NC)	6 E;RR,hwy S	660	21	
Bay Meadows (San Mateo)	1.7 SE;RR W	6	26 S6	73,80 oct. Bldg SSE
Belmont	0.5 N;RR W	5	30 S4	73,80 oct. No sto. Bay E.
Concord	1.9NE;hwyE,S,W	104	40h	
Contra Costa County (Concord)	1.5 NW;hwy S	23	50h	
Crawford USPS (Santa Ynez)(NC)	4.2 ESE;hwy S	525	13	
Cuyama USPS (Maricopa)(NC)	16 SSW	2749	26	
Estrella	3.5 SW	806	47h	
Gardner (Taft)	9 ESE;RR SE	444	60h	
Half Moon Bay	5.5 NW;hwy NE	36	50h	
Hancock (Santa Maria)	1.2 SE;RR N	236	33h S4	80,91 oct. Pwr line, twr W.
Hayward	2 WSW;RR W	25	55h	
Henderson (Ojai)	3.5 WSW;RR E	600	20 S1	91 oct.
(P) Kern County (Bakersfield)	4.4 NNW;RR W	514	60h R3 L5 S1	80,91 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct. Data unverified.
(P) Livermore NAS (N)	3.7 E;RR N	626	42h R1 L S6	91,100 oct, B-2, obst lgts.
(N) " CLP (N)	2 WNW;hwy E	448	40 L2	Poles E, N. Twr NE.
Lompoc	0.6 N;riv N	90	10h	
" com.	2.5 N;riv S	200	18 S1	73 oct.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	Inactive.
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	Inactive.
(N) Moffett NAS (LTA)(Mountain View)	2 NE;hwy S	20	70h R2 L4 S4	91,100 oct. No storage.(N)
Mountain View	2.2 NW;RR W	57	31 S6	73 oct.
(A,N) Oakland	5 S;RR SE	2	62h R3 L6 S6	73,80,91,100 oct.
Oxnard Landing Strip	5 E;hwy N	84	50h	
Pacific Airmotive (San Jose)	2.6 E;road SW	125	27 L S4	73,80 oct. No storage.
Palo Alto	2 ENE;bay E	5	23 S6	73,80 oct. Poles S, unlgtd.
Parker (Taft)	15 SE	550	30h	
Paso Robles	2.7 ESE;hwy W	810	33h S4	80,91,100 oct.
(N) Point Mugu NAP (N)	3.6 NW		55 R1 S4	73,91,100 oct. Twr, hi-line E.
Reid-Hillview (San Jose)	3.7 E;road N,S	200	27 L3 S6	73,80 oct. No ben. Poles N, S.
San Carlos	1 SE;RR SW	2	39 S6	73,80 oct. Pole line NW, SE.
(P) SAN FRANCISCO	9 SSE;bay E	4	60h R2 L5 S1	80,100 oct. No storage. Rdo req.
San Jose City (San Jose)	2 NW;RR SW	70	15 S2	80 oct. Pwr line S.
(P) San Luis Obispo	2 SSE;hwy E,S	200	40h	
San Mateo	2 ESE;hwy W		15 S6	80,91 oct. No sto. Data unverified.
(P) SANTA BARBARA	8.1 W;ocean S	14	45h R2 L5 S6	91,100 oct. Lgts till 2300.
(A) Santa Maria AAF (A)	3.5 S;hwy E	259	51h	Inactive.
Santa Paula	0.8 S;riv S	240	23 S6	80 oct.
Schlecy	1.5 S;RR N	80	30 S2	73,80 oct. Trees NE.
Shafter-Kern Co.(Shafter)(NC)	3.3 SSE	500	20	
Sherman (Walnut Creek)	3 N;RR E	100	28 S4	80 oct. Poles NW, SE.
Taft-Kern County (Taft)	0.6 E;hwy N	575	27 L3	
Taft-Kern County #2(Taft)(NC)	7 ESE	444	26	
Taft-Kern County Aux. (Taft)	21 SE	444	55h	
Tracy #5 (Stockton)	3.6 S Tracy	190	40h	
Ventura County (Oxnard)	1 W;hwy E	44	46h L S6	80, 91 oct. Flares prior req.
Vernalis	2.3 S	212	70h	
Warm Springs	2.3 SSE;RR W	100	23	
(N) [illegible] (N)(NC)	4.5 WNW	S.L.	211 L5 S6	73,91,100 oct.Ramp;tractor.
[illegible] (NC)	6 S	S.L.	S4	Fuel.Ramp;beach;haul-out.
(N) San Francisco CG/S (N)(NC)	9 SSE	S.L.	132 L5 S6	91,100 oct.Ramps;all facs.

h-hard surfaced runways R-radio facilities L-lighting facilities S-servicing. (see page 14) (NC)-Not charted.

SANTA BARBARA 25



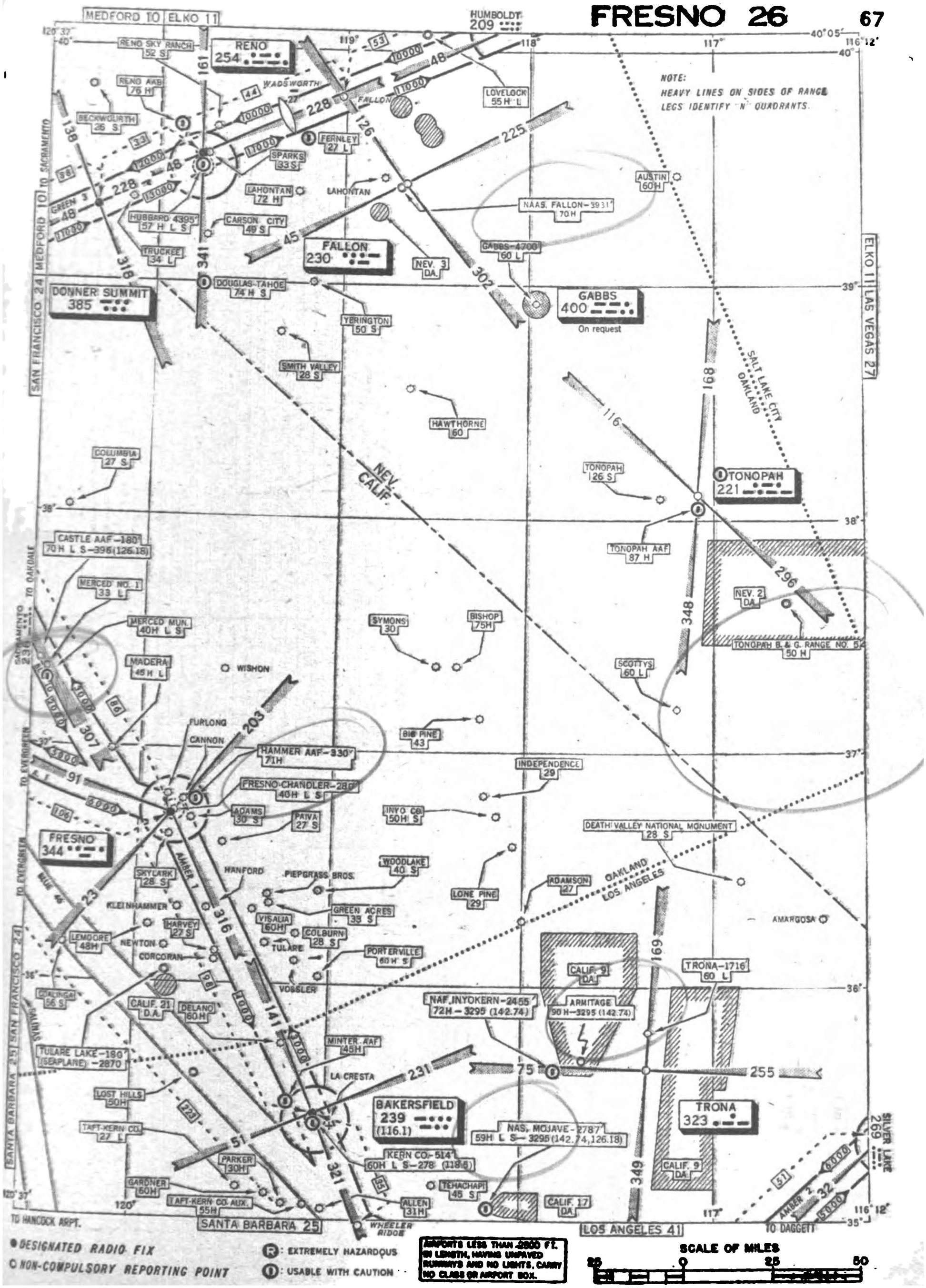
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 8 QUADRANTS.

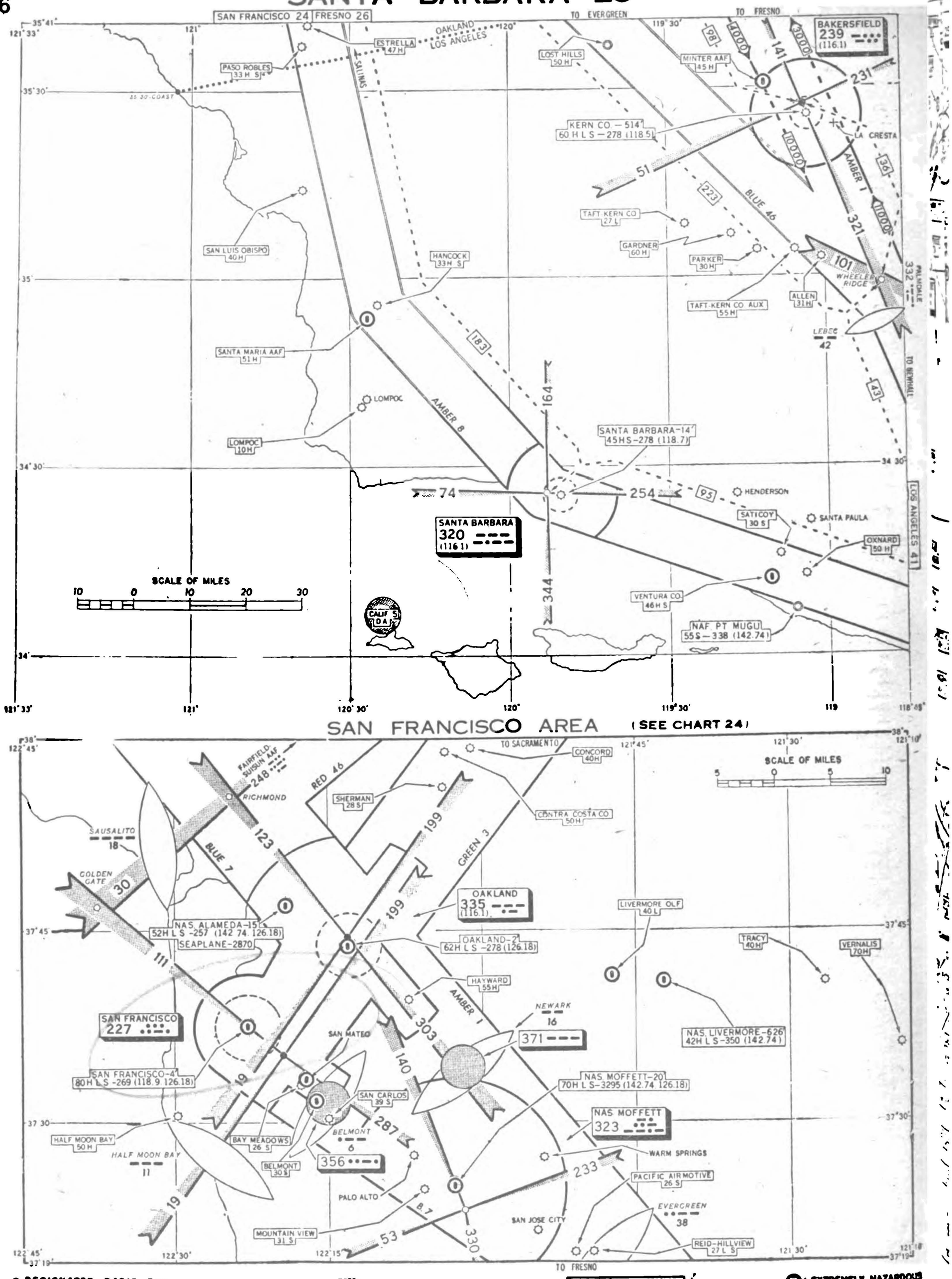
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT DOT.

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

FRESNO 26


MEDFORD TO ELKO 11
HUMBOLDT 209
RENO 254
RENO SKY RANCH 52 S
RENO AAB 76 H
BECKWOURTH 26 S
WADSWORTH
FALLON
LOVELOCK 55 H L
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
FERNLEY 27 L
SPARKS 33 S
LAHONTAN 72 H
LAHONTAN
AUSTIN 60 H
NAAS, FALLON–3931' 70 H
HUBBARD 4395' 57 H L S
CARSON CITY 49 S
FALLON 230
GABBS–4700' 60 L
TRUCKEE 34 L
NEV. 3 DA.
DONNER SUMMIT 385
DOUGLAS-TAHOE 74 H S
GABBS 400
On request
YERINGTON 50 S
SMITH VALLEY 28 S
HAWTHORNE 60
SAN FRANCISCO 24 MEDFORD 10 TO SACRAMENTO
ELKO 11 LAS VEGAS 27
SALT LAKE CITY OAKLAND
NEV. CALIF.
COLUMBIA 27 S
TONOPAH 26 S
TONOPAH 221
TONOPAH AAF 87 H
CASTLE AAF–180' 70 H L S–396' (126.18)
MERCED NO. 1 33 L
MERCED MUN. 40 H L S
SYMONS 30
BISHOP 75 H
NEV. 2 DA.
TONOPAH B. & G. RANGE NO. 5 50 H
MADERA 45 H L
WISHON
SCOTTYS 60 L
FURLONG
CANNON
BIG PINE 43
HAMMER AAF–330' 71 H
INDEPENDENCE 29
FRESNO-CHANDLER–280' 40 H L S
ADAMS 30 S
PAIVA 27 S
INYO CO. 50 H S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
KLEINHAMMER
VISALIA 60 H
GREEN ACRES 38 S
AMARGOSA
HARVEY 27 S
LEMOORE 48 H
NEWTON
COLBURN 28 S
TULARE
PORTERVILLE 60 H S
CORCORAN
CALIF. 9 DA.
TRONA–1716' 60 L
VOSSLER
GUALINGA 56 S
CALIF. 21 D.A.
DELANO 60 H
NAF, INYOKERN–2455' 72 H–3295' (142.74)
ARMITAGE 90 H–3295' (142.74)
MINTER AAF 45 H
TULARE LAKE–180' (SEAPLANE) –2870'
LA CRESTA
LOST HILLS 50 H
BAKERSFIELD 239 (116.1)
TRONA 323
TAFT-KERN CO. 27 L
NAS, MOJAVE–2787' 59 H L S–3295' (142.74, 126.18)
KERN CO.–514' 60 H L S–278' (118.6)
PARKER 30 H
GARDNER 60 H
TEHACHAPI 45 S
CALIF. 17 DA.
TAFT-KERN CO. AUX. 55 H
ALLEN 31 H
SILVER LAKE 269
SANTA BARBARA 25
WHEELER RIDGE
LOS ANGELES 41
TO DAGGETT
TO HANCOCK ARPT.
SANTA BARBARA 25 SAN FRANCISCO 24
SACRAMENTO 23
TO OAKDALE
TO EVERGREEN
SALINAS
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
AIRPORTS LESS THAN 2800 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
25 0 25 50

SANTA BARBARA 25



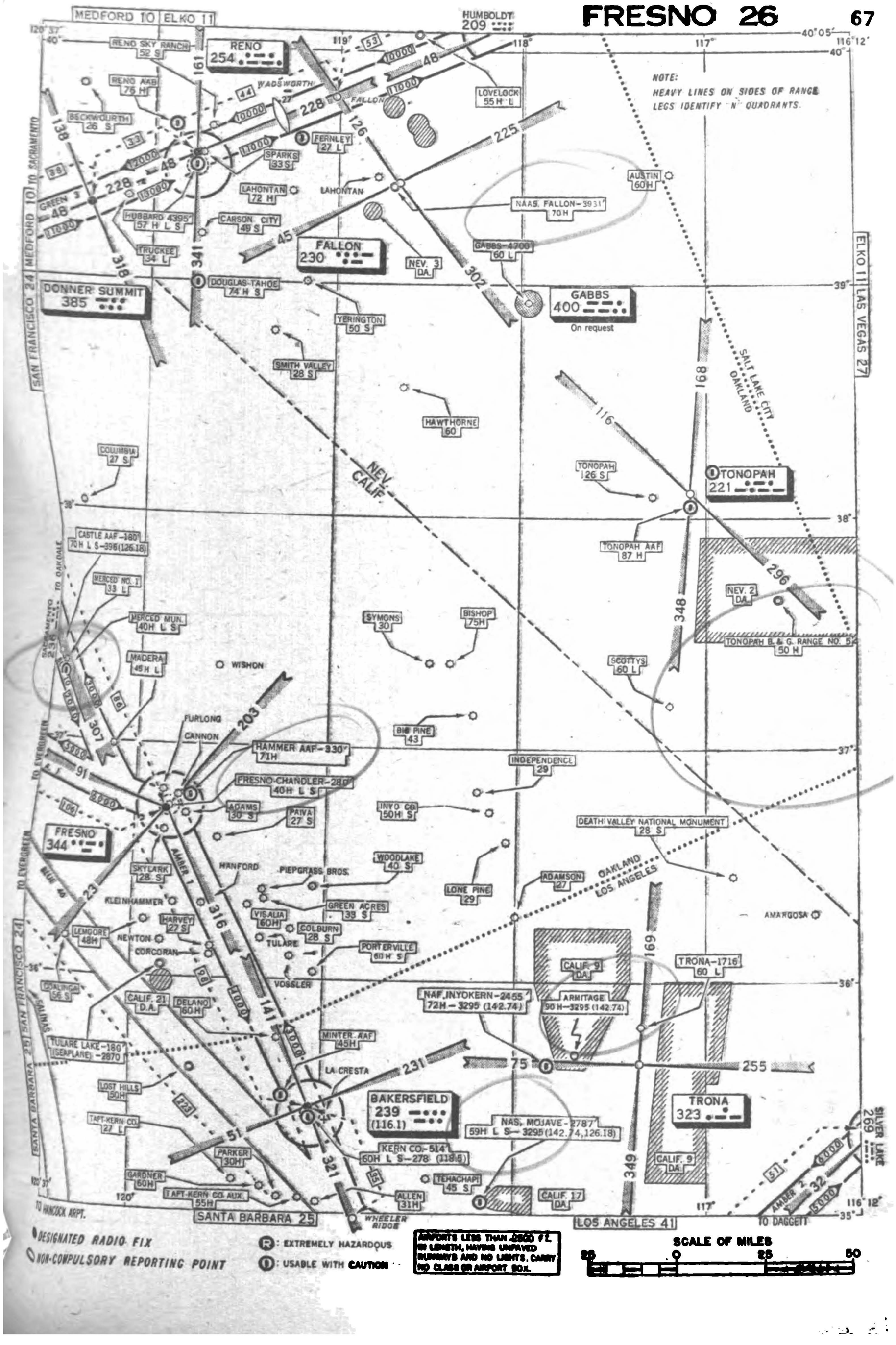
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 8 QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SIZE.

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

FRESNO 26


MEDFORD 10 | ELKO 11
HUMBOLDT 209
RENO SKY RANCH 52 S
RENO 254
RENO AAB 76 H
WADSWORTH
FALLON
LOVELOCK 55 H L
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
BECKWOURTH 26 S
FERNLEY 27 L
SPARKS 33 S
AUSTIN 60 H
LAHONTAN 72 H
LAHONTAN
NAAS, FALLON-3931' 70 H
GREEN 3
HUBBARD 4395' 57 H L S
CARSON CITY 49 S
FALLON 230
GABBS-4700' 60 L
TRUCKEE 34 L
NEV. 3 DA.
DONNER SUMMIT 385
DOUGLAS-TAHOE 74 H S
GABBS 400
On request
YERINGTON 50 S
SMITH VALLEY 28 S
HAWTHORNE 60
SALT LAKE CITY OAKLAND
COLUMBIA 27 S
TONOPAH 126 S
TONOPAH 221
NEV. CALIF.
CASTLE AAF-180' 70 H L S-396 (126.18)
TONOPAH AAF 87 H
NEV. 2 DA.
MERCED NO. 1 33 L
SYMONS 30
BISHOP 75 H
MERCED MUN. 40 H L S
TONOPAH B. & G. RANGE NO. 5 50 M
MADERA 45 H L
WISHON
SCOTTYS 60 L
FURLONG
CANNON
BIG PINE 43
HAMMER AAF-330' 71 H
INDEPENDENCE 29
FRESNO-CHANDLER-280' 40 H L S
ADAMS 30 S
PAIVA 27 S
INYO CO. 50 H S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
KLEINHAMMER
VISALIA 60 H
GREEN ACRES 39 S
AMARGOSA
LEMOORE 48 H
NEWTON
HARVEY 27 S
COLBURN 28 S
TULARE
PORTERVILLE 60 H S
CORCORAN
CALIF. 9 DA.
TRONA-1716' 60 L
COALINGA 56 S
VOSSLER
CALIF. 21 D.A.
DELANO 60 H
NAF, INYOKERN-2455' 72 H-3295 (142.74)
ARMITAGE 90 H-3295 (142.74)
TULARE LAKE-180' (SEAPLANE)-2870
MINTER AAF 45 H
LA CRESTA
LOST HILLS 50 H
BAKERSFIELD 239 (116.1)
TRONA 323
NAS, MOJAVE-2787' 59 H L S-3295 (142.74, 126.18)
TAFT-KERN CO. 27 L
KERN CO.-514' 60 H L S-278 (118.5)
PARKER 30 H
GARDNER 60 H
TEHACHAPI 45 S
CALIF. 9 DA.
CALIF. 17 DA.
TAFT-KERN CO. AUX. 55 H
ALLEN 31 H
SILVER LAKE 269
SANTA BARBARA 25
WHEELER RIDGE
LOS ANGELES 41
TO DAGGETT
TO HANCOCK ARPT.
SAN FRANCISCO 24 | MEDFORD 10 | TO SACRAMENTO
SAN FRANCISCO 24 | TO EVERGREEN
SANTA BARBARA 25 | TO OAKDALE
LAS VEGAS 27
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
25 0 25 50

RADIO

LOCATION	FREQ.. IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
[illegible] (Inyokern)	3295(142.74)	CN	(3);126.18,142.74(days)
BAKERSFIELD (Kern Co.)	239 (BD)(116.1)	SBMRAZ-VDT,141°,1.5	(4); 116.1
CASTLE FIELD (Merced)	396 (126.18)	CA	(3); 126.18
FRESNO (Fresno-Chandler)	344 (FT)	SBRAZ-DT, 23°,0.9	(4)
INYOKERN NAP	3295(142.74)	CN	3105,4495;142.74 (days only
KERN CO., (Bakersfield)	278 (118.5)	C(ILS)	(4);126.18,131.9,118.5
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
TRONA (Int.)	323 (EW)	SBMRAZ-DT, 349°,11	(4)
TULARE LAKE SEAPLANE ANCHORAGE	2870	CN	

NEVADA

FALLON (NAAS)	230 (VA)	SBRAZ-DT, 219°,2.9	(4) not manned cont.
GABBS (Int.)	400 (GZ)	MHP	(4) not manned cont.
RENO (Hubbard)	254 (RP)(116.1)	SBRAZ-VDT,161°,3.3	(4); 116.1
TONOPAH (AAF)	221 (RY)	SBRAZ-DT,168°,2.8	(4) not manned cont.

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
				IM (.07)	MM .....(.80)	OM --(4.71)	
KERN CO., CALIF.	109.9		300° Mag.		MMK	OMK	

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Fresno)	4 SE;RR S,W	295	30 S6	80,91 oct.No sto.Poleline NNW,SSE.
Adamson (Olancha)	0.6 SE;hwy W	3648	27	30' poles W; 75' twr E.
Allen (Taft)	26 ESE	500	31h	
Amargosa (Death Valley Jct)	0.7 W;hwy E	2037	22 S1	73 oct. Pole line S.
Bakersfield-Kern Co.#2(NC)	6 E;RR, hwy S	660	21	
Big Pine	3.4 ESE;RR W	4000	43	1500'mts SE;1000' mts E.
Bishop	2 ENE;riv E	4121	75h L5	All lgts prior req.
Bryant (Bridgeport)(NC)	0.3 NNE;hwy SW	6465	40	
Cannon (Fresno)	2 N;RR W	310	19 S6	73 oct.Pole line NNW.
(A) Castle (Merced) (A)	7 NW;RR SW	180	70h R1 L5 S6	91,100 oct. JP-1.
Coalinga	1.5 N;hwy E	664	56 S4	80 oct. Hill N,W.
Colburn (Lindsey)	4.7 W;RR E	325	28 S4	73, 91 oct.
Columbia (Sonora)	4 NNW;hwy E	2150	27 S6	73,80 oct.
Corcoran	1.3 WNW;rd S	220	19 S4	73,80 oct.No sto.Poles N. NW, SE.
Cornell (Porterville)(NC)	2.4 SSW;RR E	470	26	Poles SE.
Death Valley (Furnace Creek)	1 WNW	-178	28 S2	87,100 oct.
Defense Plant Corp.(Tulare)	6 SE;RR W	283	23	(NC)
Delano	1.5 SE;RR W	315	60h	
FRESNO-CHANDLER (Fresno)	1.8 W;hwy N	280	40h R1 L5 S6	73,80,91,100 oct.No sto.
Furlong (Fresno)	5.5 NW;RR W	285	21 S6	80,91 oct.
Gardner (Taft)	9 ESE;RR SE	444	60h	
Great Western (Reedley)(NC)	5 N;RR W	380	20	
Green Acres (Visalia)	1.5 NW;RR S	300	33 S6	80 oct.Pole line SE.
(A) Hammer (Fresno)(A)	4.8 NE;rds N,E	330	71h	INACTIVE.
Hanford	1.2 SE;RR W	250	20 S4	80 oct.
Harvey (Corcoran)	2.7 NNW;RR W	200	27 S4	80 oct.No sto.
Independence	0.9 N;hwy W	3926	29	Trees S.
Inyo County (Manzanar)	0.5 E;hwy W	3875	50h L5 S2	80 oct.All lgts prior req.
(N) Inyokern NAF (N)	0.5 WNW; RR E	2455	72h R1	INACTIVE.
(P) KERN COUNTY (Bakersfield)	4.4 NNW;RR W	514	60h R3 L5 S1	80,91 oct.
Kleinhammer (Lemoore)	1.2 N;hwys S	225	16 S2	80 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data unverified.
Lemoore	9 SW;RR NW	241	48h	
Lone Pine	0.8 SE;RR E	3700	29	Hazerdous.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(N) Armitage NAF (Inyokern)(N)	8 ENE	2218	90h R1 L5 S1	91,100 oct.No sto.CLOSED

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Madera	3.5 WNW;hwy E	271	45h L5	
Mariposa (NC)	4.5 NW;hwy SW	2250	21	
(P) Merced, mun.	1.6 WSW;RR NE	152	40h L5 S6	73 oct. No sto.
Merced #1	2.5 NW;RR SW	165	33 L3	No beacon
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	INACTIVE.
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Monache Meadow (Olancha)	10.8 WSW	8000	26	USPS. (NC)
Newton (Stratford)	2.7 SSW;riv E	194	23 S4	80 oct.No sto.Pwrline N,NW
Paiva Intercity (Parlier)	1.5 WSW;RR NE	330	27 S4	80 oct.Poles ESE.
Parker (Taft)	15 SE	550	30h	
Piepgrass Brothers (Visalia)	3.7 NNW;riv S	320	20 S2	80 oct.
Porterville	3 SW;RR E	430	60h S1	91 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
Sequoia (Visalia)(NC)	8.5 NNW;RR E	310	23	
Shafter-Kern Co.(Shafter)(NC)	3.3 SSE	500	20	
Skylark (Fresno)	8.5 SSW;RR SW	255	28 S6	80,91 oct.
Symons (Bishop)	4 W; hwy N	4350	30	
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2 (Taft)	7 ESE	444	26	(NC)
Taft-Kern Co. Aux. (Taft)	21 SE	444	55h	
Tehachapi	1 N; RR S	3952	45 L S2	73,91 oct. Pole line SE.
Templeton Meadow (Olancha)	12 W	8800	20	S and W blocked. USPS.(NC)
★ Trona Int, 13, RV-ND	5 NE;rd W	1716	60 R1 L3	Fld sur by mtns.
★ Truckee Int, 16B, SP-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec.-Apr.
Tulare	2.9 SSE; RR W	300	20 S6	80,91 oct, No sto.
Tunnel (Olancha) USPS (NC)	16.5 WNW;riv S	9100	21	Mtns - timber 2000' NE.
Visalia	5 W;RR W	300	60h	
Vossler (Woodville)	1.3 E;hwy S	345	25	Trees N, S.
Wishon (Bass Lake) USPS	1.5 WNW	3380	22 S1	Ltd 73 oct. Trees NNW.
Woodlake	2.6 ESE; lake NW	450	40 S4	80 oct. No sto.

NEVADA

(P) Austin	7 WSW;riv NW	5730	60h	
Carson City	3.1 NE;hwy W	4684	49 S6	80 oct.Mts N, hill W.
(P) Douglas-Tahoe (Minden)	2.8 NNE;RR W	4709	74h S6	73 oct.
★ Fernley Int, 22, SF-SL	3.3 E;hwy NW	4156	27 L2	
(N) Fallon NAAS (N)	6 SE;hwy S	3931	70h R1 L5	Lgts on req.
★ Gabbs Int, 36, RV-ND	4 NW;hwy E	4700	60 R1 L3	
(N) Hawthorne	2 N;lake NNW	4200	60 L	Emerg. lgtg on ½ hr req.
HUBBARD (Reno)	3.4 SE;RR N	4395	57h R1 L5 S4	80,91 oct. Fld lgts prior req.
Lahontan (Fallon)	1.4 SSW;hwy N	4000	24 S4	80 oct.Poles ENE,WSW.Hwy W
Lahontan Flight Strip (Fernley)	15.5 S;hwy N	4279	72h	
Lovelock	1.5 ENE;riv W	3986	31 S2	80 oct.
Manhattan (NC)	6.8 W;hwy W	5850	40	
(A) Reno AAB (A)	10.5 NNW;RR SW	5018	76h	INACTIVE. Mtns sur fld.
Reno Sky Ranch (Sparks)	8.5 NNE;hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
★ Scottys Int,22,RV-ND	9 SSE Gold Pt.	4300	60 L2	
Smith Valley	1 ESE;hwy N	4850	28 S6	73,80 oct.
Sparks Airpark	0.6 N;RR S	4400	33 S6	80,91 oct, Pole line W.
Tonopah	3.2 WNW;RR S	5600	26 S1	73 oct. by truck
(A) Tonopah AAF (A)	8 E;hwy N	5427	87h R1	INACTIVE.
(A) Tonopah B & G Range #5 (A)	44.5 SE	5335	50h	Dry lakes N.
Yerington	1.2 N;RR W	4483	50 S1	73 oct.

RADIO

ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT (Love)	347(PN)(116.1)	SBRAZ-VDT,142°,5.5	(4), 116.1
CALIFORNIA			
NEEDLES	400(NJ)(116.1)	BMRLZ-VDT,195°,2.2	(4), 116.1
SILVER LAKE (Int.)	269(RL)(116.1)	SBMRAZ-VDT,132°,1.9	(4), 116.1
NEVADA			
CRYSTAL FM	(-)	FM, 28°, 30	Las Vegas
LAS VEGAS	206(LQ)(116.1) (111.1)	SBMRAZ-VDT	(4)131.7,116.1 only
Las Vegas AAF	278(126.18,118.7)	C (ILS),34°, 1.9	(4), 131.9,118.7,126.18
UTAH			
BRYCE CANYON (Int.)	108.3(BV)(111.1) (116.1)	VAR-VDPT,35°,0.8	3117.5,131.7,116.1, 129.7 cont.(3)req.
ENTERPRISE(Int.)	341(NP)(116.1)	SBMRAZ-VDT,20°, 3.1	(4), 116.1
MILFORD	320(MD)(116.1)	BMRLZ-VT,20°,1	(4), 116.1
ST.GEORGE	108.7(GX)(111.1) (116.1)	VAR-VDP,229°,7.8	3117.5;131.7,116.1, 129.7 (3) on req.

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs., Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LAS VEGAS AAF, NEV.	110.3		25° Mag	IM	MM ·--- (.66)	OM -- (4.2)
					MMK	OMK

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station, (4)-3105,4495,6210,3117.5. kcs., (3)-3105,4495,6210 kcs.; Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS

ARIZONA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* Ashfork Int,36A, LA-AQ	4.3 W,RR S	5089	41 L3	
Clemenceau (Cottonwood)	1.7 SSW,hwy NE	3400	29 S4	73 oct.
Ernest A.Love (Prescott)	8 NE,RR E	5042	60h R1 L5 S6	80,91,100 oct.
Fredonia	1 NE,hwy W	4800	34	
Grand Canyon South Rim	14.8 S,RR W	6362	50 S2	80 oct.Trees ENE.
Kingman	8.5 NE,hwy NW	3395	65h	
Mohave Co.(Kingman)	6.5 NW,hwy E	2850	34 S1	73 oct.
Port Kingman (Kingman)	3 NE,RR S,E	3435	54 L3 S1	80,91 oct.All lgts prior req.
* Seligman Int,32,	16 W,road S	5333	43 L3	LA-AQ
Valle	2.3 E'RR W	5990	60 L3	Fld lgts prior req.
Verde Valley(NC)	1.8 SE,riv W	3400	30	(Cottonwood)
Williams	4.3 N,RR E	6600	41 S6	80 oct.Mts SW.
Yucca	1.5 NE,RR W	1975	60h	

CALIFORNIA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* Bagdad Int,16,LA-AQ	1 S,RR N	700	40 L3	
Needles	5.5 S,hwy E	918	58h R1 L3	
Riverview(Needles)	1.4 S,riv N	500	27 S1	80,91 oct.Trees NNE
* Silver Lake Int,18, LA-SL	2.5 SSE,RR E	924	40 R1 L3	Rnwy data unverif.

NEVADA

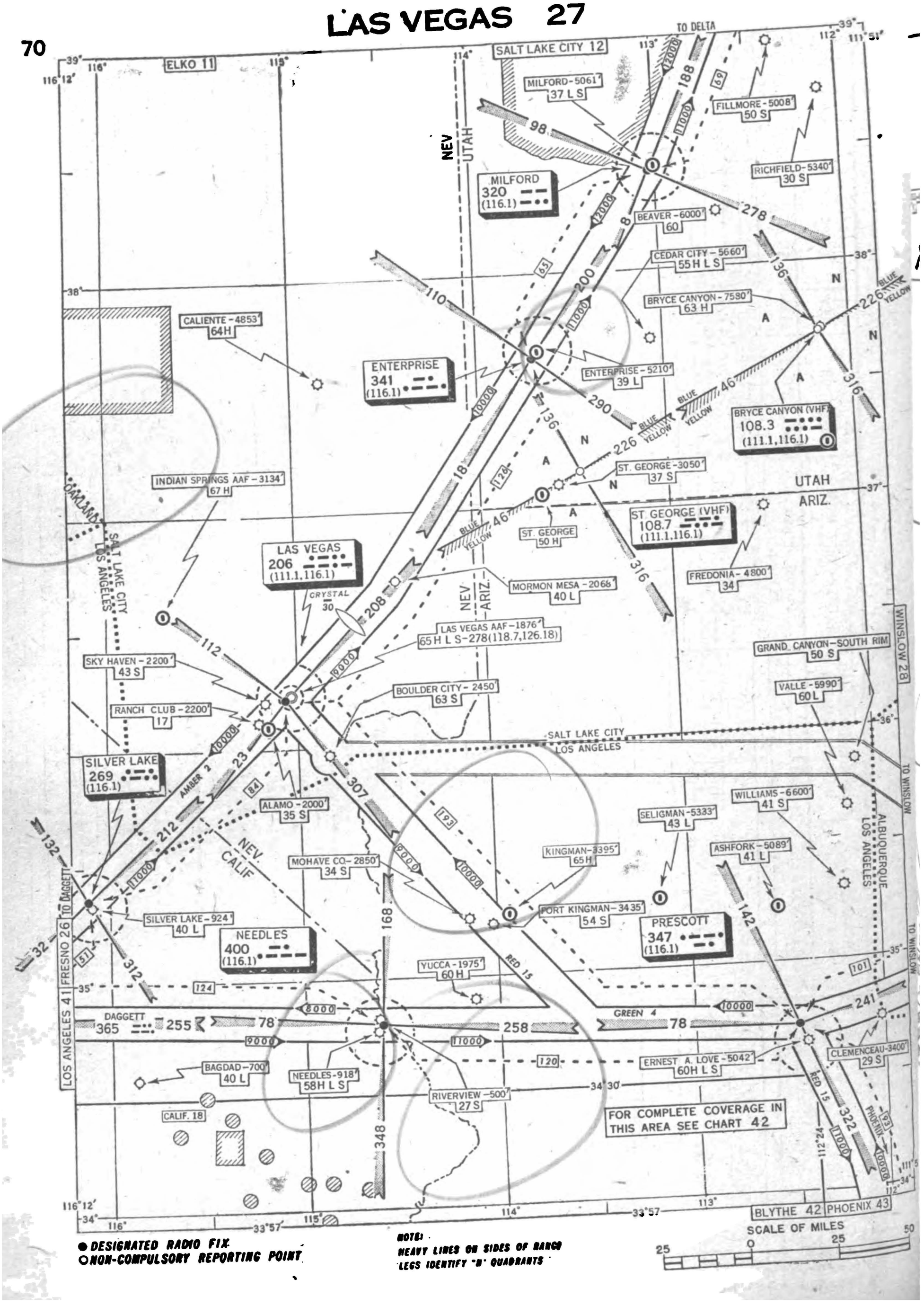
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamo (Las Vegas)	5.5 SSW,RR SW	2000	35 S4	73,80,91 oct.
(N) BOULDER CITY	1.8 SW,RR W	2450	63 L1 S4	73,80 oct,by truck;91 oct for airlines.
Caliente Flgt Strip	19 W,hwy N	4853	64h	
(A) Indian Springs(A)	2 WNW	3134	67h	INACTIVE.
(A) Las Vegas AAF(A)	7.8 NE,hwy NW	1876	65h R3 L5 S6	100 oct. No sto.
* Mormon Mesa Int, 31B,LA-SL	6 ENE Glendale	2068	40 L3	
Pahranagat(Alamo)	0.7 W,hwy E	4300	26	(NC)
Ranch Club(Las Vegas)	5.5 SW,RR E	2200	17	Mts WSW,ENE,E.
Searchlight Landing Strip (NC)	10.8 SSE,hwy E	2536	40	
Sky Haven	3.3 NW,hwy W	2200	43 S4	80,91 oct.(Las Vegas)

UTAH

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Beaver	3.2 SSW,hwy E	6000	60	
* Bryce Canyon Int, 45, LA-DV	5 N,hwy S	7580	63 L3 S2	No fuel.
Cedar City	2.3 NW,hwy W	5660	55h L5 S6	80,91 oct.
* Enterprise Int,39,	8 NNE,hwy N	5210	39 R1 L3	LA-SL
Fillmore	2 WSW,hwy SE	5008	50 S2	73 oct.
Milford,45,LA-SL	2.3 NNW,RR E	5061	37 R1 L3 S1	80 oct.
Richfield	1.8 SSW,RR E	5340	30 S4	80 oct.
St.George	1.5 SSW,riv SSE	3050	37 L2 S4	80 oct. Fld lgts & svcg prior req.
* St.George Int,36, LA-DV	6 SE		50h	

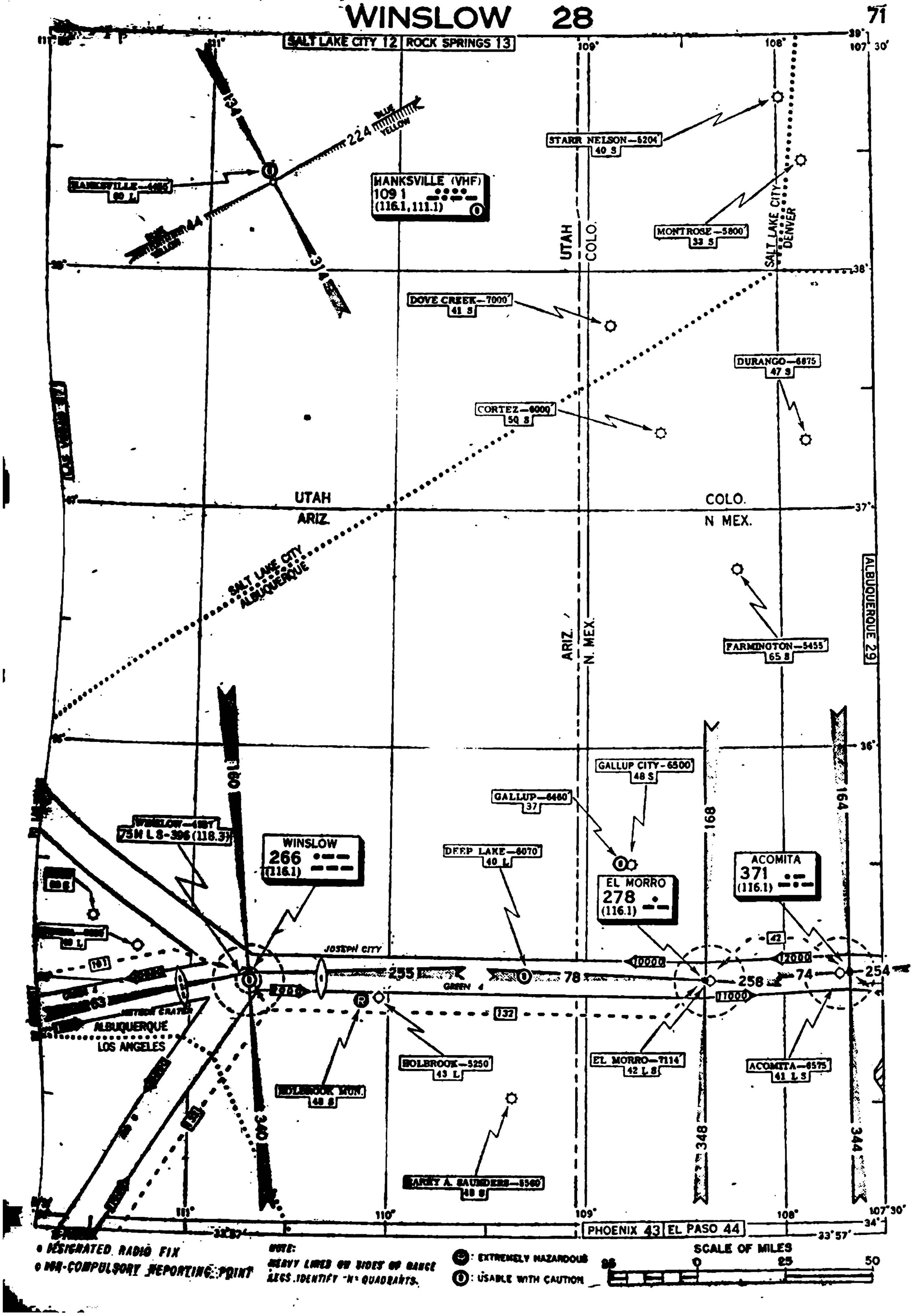
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

LAS VEGAS 27



● DESIGNATED RADIO FIX.
○ NON-COMPULSORY REPORTING POINT.

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.


SALT LAKE CITY 12
ROCK SPRINGS 13
134
224
BLUE YELLOW
314
HANKSVILLE (VHF)
109 I
(116.1, 111.1)
STARR NELSON—6204'
40 S
MONTROSE—5800'
33 S
SALT LAKE CITY
DENVER
UTAH
COLO.
DOVE CREEK—7000'
41 S
DURANGO—6875
47 S
CORTEZ—6000'
50 S
UTAH
ARIZ.
COLO.
N MEX.
SALT LAKE CITY
ALBUQUERQUE
ARIZ.
N. MEX.
FARMINGTON—5455'
65 S
ALBUQUERQUE 29
GALLUP CITY—6500'
48 S
GALLUP—6460'
37
WINSLOW
266
(116.1)
DEEP LAKE—6070'
40 L
EL MORRO
278
(116.1)
ACOMITA
371
(116.1)
168
164
JOSEPH CITY
255
78
258
74
254
GREEN
10000
12000
11000
42
132
ALBUQUERQUE
LOS ANGELES
HOLBROOK—5250
43 L
HOLBROOK MUN.
48 S
EL MORRO—7114'
42 L S
ACOMITA—6575
41 L S
348
344
340
CARRY A. SAUNDERS—6560'
48 S
PHOENIX 43
EL PASO 44
111°
110°
109°
108°
107°30'
34°
33°57'
• DESIGNATED RADIO FIX
• NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES
25
0
25
50

RADIO

ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JOSEPH CITY FM	(-)	FM, 75°, 20	Winslow
METEOR CRATER FM	(- - -)	FM, 243°,18	Winslow
WINSLOW	266(WO)(116.1)	SBRAZ-VDT	(4), 116.1
Winslow Airport	396 (118.3)	C, 160°, 1.5	(4),118.3,131.9,126.18 (6-18)
NEW MEXICO			
ACOMITA (Int.)	371(AK)(116.1)	BMLZ-VDT,254°,1.9	(4), 116.1
EL MORRO (Int.)	278(EM)(116.1)	BMRLZ-VDT,5°,0.1	(4), 116.1
UTAH			
HANKSVILLE Int	**109.1(HY)(111.1) (116.1)**	**VAR-VDP,314°,2.8**	**3117.5:116.1,131.7,129.7 (3) on req. Not manned cont.**

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARIZONA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cameron (NC)	1.4 NE;hwy W	4200	50	
* **Deep** Lake Int,54A, LA-AQ	1.5 W;hwy E	6070	40 L3	Poles S.
Holbrook	2.2 NNE;RR SE	5200	48 S4	80 oct.
* " Int,50,LA-AQ	6.6 ENE;hwy N	5250	43 L3	
Koch (Flagstaff)	9.8 NE;hwy S	6587	60 S1	Ltd 80 oct. Hills SW
Saunders, Harry A. (St. Johns)	1.1 NNW,hwy S	5560	48 S2	80 oct. 25' poles NE
Window Rock(NC)	0.8 SSW;rd N	6800	52	Bluffs ENE,NNE
* **Winona** Int,43A, LA-AQ	8.9 ESE;hwy N	5880	40 L3	
(P) WINSLOW	2 SW;RR N	4937	75h R2 L5 S1	91 oct.
COLORADO				
(P) Cortez	3.1 SW;hwy E	6000	50 S4	80 oct.
Dove Creek	0.6 E;creek W	7000	41 S1	80 oct. Pwr line SSW
(P) **Durango**	1.5 NE	6875	47 S6	80 oct.
Mancos (NC)	1.4 NNE;RR S	7500	30	
Montrose	1.3 S,RR NE	5800	33 S4	73 oct.
Starr Nelson(Delta)	4 E;road N	5204	40 S4	80 oct.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

NEW MEXICO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* Acomita Int,63, LA-AQ	7.8 W;hwy N	6575	41 R1 L3 S1	73,91 oct. in emerg.
Cubero (NC)	2.4 W;hwy S	6200	30	Pole line S. 11,000' mtns N.
* El Morro Int,59B, LA-AQ	4.5 WSW;lake NW	7114	42 R1 L3 S1	Ltd 91 oct. Rough.
Farmington	1.4 NW on mesa	5455	65 S6	80, 91 oct.
Gallup	4 W;hwy;RR S	6460	37	Poleline SSW
Gallup City	2.6 WSW;RR N	6500	48 S4	80 oct. Pole line WSW.
Indian Service (Shiprock) (NC)	1.8 SSW;riv N	5100	19	Pole line NW.
Aztec (NC)	2.2 NW on mesa	5700	28	Emerg only.
UTAH				
* Hanksville Int,54, LA-DV	4 NE	4455	60 L3	
Monument Valley (Goulding Trading Post)	0.5 N;hwy E	5284	30	

RADIO

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COLORADO SPRINGS (Peterson)	224 (CD)	MRLWZ 166°,3.9	
FOUNTAIN FM	(- - - -)	FM;334°,32.7	Pueblo
LA JUNTA AAF	281(LH)	SBMRLZ-DT;194°,2.6	(4)
PETERSON FIELD(Colorado Springs	272 (126.18)	CA	(4);116.1,126.18
PUEBLO	302 (PU)	SBRAZ-DT;340°,2	(4)
TRINIDAD	320 (TD)	SBMRAZ-DT;170°,3	(4)

NEW MEXICO

ALBUQUERQUE (Kirtland)	230(AB)(116.1)	SBRAZ-VDT;354°,3	(4); 116.1
ANTON CHICO (Int)	219(AC)(116.1)	MHVT	(4); 116.1
CLOVIS (Army)	203 (DCV)	BMRAZ	(3)
Clovis AAF	396 (126.18)	CA(ILS);34°,6.2	(3); 126.18
Clovis AAF	526 (DCV)	HW-DT; 130°,1.6	
JUAN TOMAS FM	(- -)	FM; 71°, 18	Albuquerque
KIRTLAND FIELD (Albuquerque)	396 (126.18)(118.7)	AC	(4);126.18,118.7,131.9
LAS VEGAS	359(VH)(116.1)	SBMRAZ-VDT;80°,3.2	(4)
MAXWELL FM	(- -)	FM, 170°, 54	Trinidad, Colo.
OTTO (Int.)	290(OT)(116.1)	BMRLZ-VDT;74°,0.2	(4); 116.1
PERALTA FM	(- - -)	FM, 174°, 11.6	Albuquerque
SANTA FE (New)	206(SJ)(116.1)	MHVT	(4); 116.1
SOCORRO	206(OS)(116.1)	MHVT	(4); 116.1
TUCUMCARI	212(YC)(116.1)	SBMRAZ-VDT;76°,2.2	(4); 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APP'R. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CLOVIS AAF, N. MEX.	109.9		33° Mag.	IM (.23)	MM ·····(.86)	OM --(4.36)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

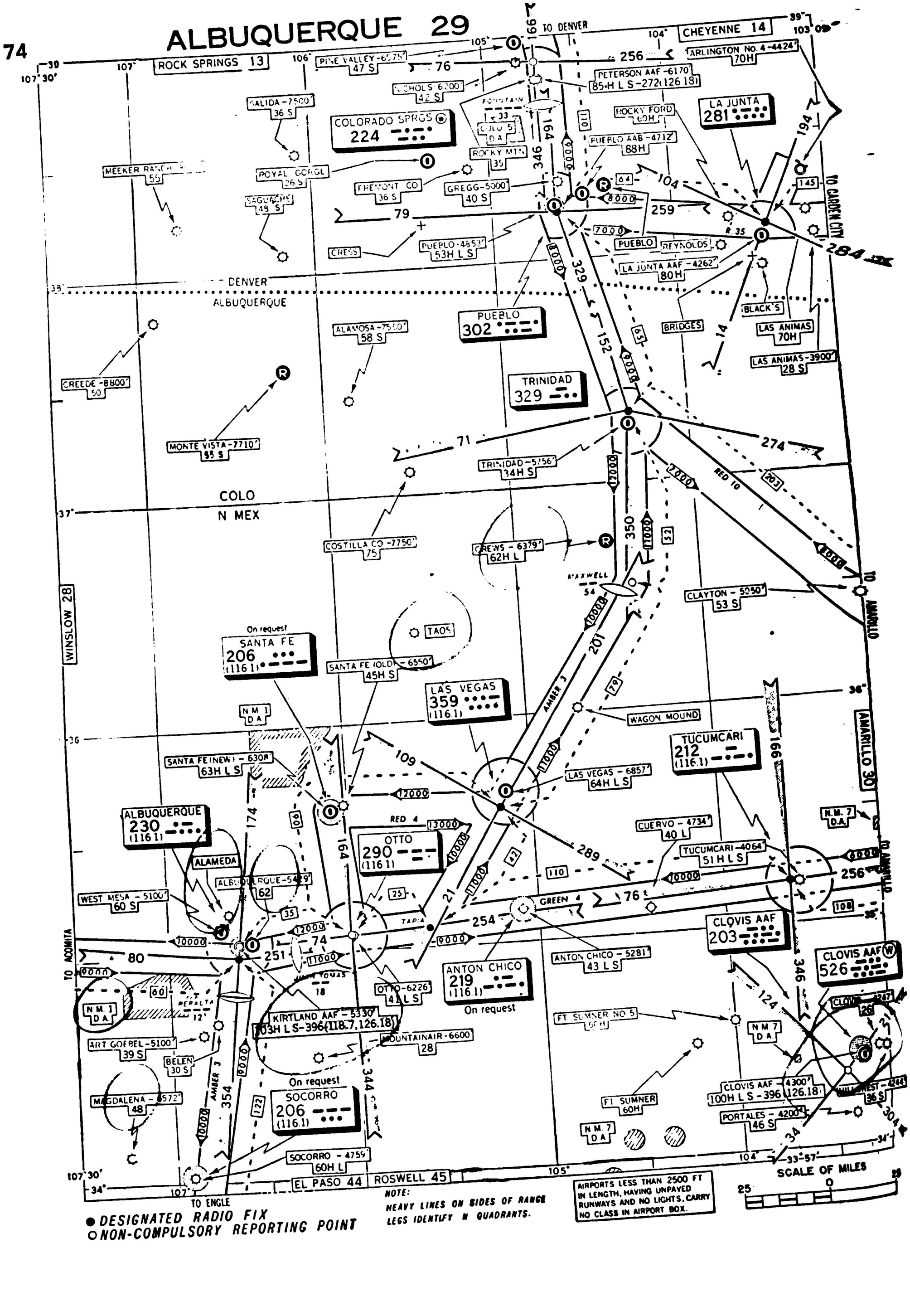
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamosa	2 S; hwy W	7550	58 L3 S4	80 oct. Fld lgts prior req.
(A) Arlington #4(La Junta)(A)	28 NNE	4424	70h	Arlington 3.3 WNW. INACTIVE.
Black's (La Junta)	4.8 S;riv 5 S	4250	21	
Costilla County(Mesita)	4 E; RR W	7750	75	
Creede	2 SSE;hwy NW	8800	50 S2	No fuel. Rough off strips.
Cress (Westcliff)	6 W	8000	30 S1	80 oct. Pole line E.
Fremont Co. (Canon City)	6.9 E; riv S	5350	36 S2	80 oct.
Gregg (Pueblo)	6 N;RR,hwy E	5000	40 S1	80 oct.
(A) La Junta AAF (A)	4.4 NNE;rd W	4262	80h R1	INACTIVE.
La Junta Bridges (La Junta)	3 SW; hwy E		30 S1	80 oct. Data not verified.
Las Animas	1.4 S; RR N	3900	28 S4	80 oct. Poles W.
Las Animas (La Junta)	19 NE	4119	70h	Las Animas 5.9 SSE.
Meeker Ranch (Gunnison)	23 SSE;riv E	8500	55	
Monte Vista	3.5 W; RR N	7710	55 S4	80 oct.
Nichols (Colorado Spgs)	2.8 NNR;hwy W	6200	42 S6	80,91 oct. Pole line SE,NE,N.
Ordway (NC)	0.9 S; RR N	4300	40	NOT MAINTAINED.
(A) PETERSON (Colorado Spgs)	6.3 E; hwy N	6170	85h R2 L5 S6	73,91,100 oct. No sto.
Pine Valley(ColoradoSpgs)	9.2 N; hwy E	6575	47 S6	80,91 oct. Poles E,W,NNW.
(P) PUEBLO	2.1 SW	4853	53h R1 L5 S6	80,91 oct.
(A) Pueblo AAB (A)	7 NE; RR S	4712	88h	INACTIVE.
Reynolds (Rocky Ford)	3.5 SSW;hwy S	4250	21	Pole line NE
Rocky Ford (La Junta)	13.8 NW	4367	60h	Rocky Ford 6 S.
Rock Mtn.(Colorado Spgs)	6 ESE	6100	35 S2	No fuel.
Royal Gorge(Canon City)	6.4 NW; hwy N	6320	26 S2	80,91 oct. Pole lines N.
Saguache	2 W; hwy NE	7700	48 S1	Ltd 73 oct.
Salida	4 W; RR S	7500	36 S2	80 oct.
Trinidad	10.5 ENE;hwy E	5756	34h R1 L1 S1	80 oct. Use rnwys only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 18) (NC)-Not charted.

NEW MEXICO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alameda (Albuquerque)	7.4 N; RR E	5400	37	
Albuquerque	6.3 ESE;hwy N	5429	62	RFC surplus acft fld.
★ Anton Chico Int,78A,LA-AQ	4.5 SE; hwy E	5281	43 R1 L3 S1	91 oct.
Art Goebel (Belen)	3.2 W; RR E	5100	39 S1	Ltd 73 oct.
Belen Air Strip	2.7 N; RR E	5000	30 S1	73 oct.
Clayton	1.5 E; RR S	5050	53 S2	73 oct.
Clovis	0.8 NW;RR S	4247	26	
(A) Clovis AAF (A)	6.5 W; RR N	4300	100hR3 L5 S6	73,91,100 oct.
(P) Crews,42,EO-PU (Raton)	11.5 SSW;hwy W	6379	62h L2	
★ Cuervo Int,81B,LA-AQ	5 N	4734	40 L3	Poles W, lgtd.
Cutter-Carr #2 (Albuquerque)	3.6 NE; RR W	5120	46	Pole line ENE. (NC)
Eagle Nest Lndg Strip(NC)	1 NE	8450	40	11,000' mts NE. Use in emergency.
Ft. Sumner	1.5 NNE;RR S	4166	60h	
" " #5	16 ENE	4830	60h	
Graham-Bell(Albuquerque)	4.5 ENE	5400	27 S6	73,91 oct.
Hillcrest (Clovis)	2.1 E; RR S	4244	36 S4	73 oct. No sto.Pole line S.
Holbrook's (Cuervo)(NC)	0.8 NE; RR S	4810	19	300' mt. S
(A) KIRTLAND (Albuquerque)(A)	3.8 SSE; rd N	5330	103hR2 L6 S6	73,91,100 oct. JP-1. No sto.
LAS VEGAS	6 NE; RR W	6857	64h R1 L5 S6	80,91 oct.
Magdalena	0.8 N; RR S	6572	48 S1	Ltd 73 oct. Pole line SW.
Maxwell (NC)	1.7 N; hwy E	6000	36	
Mountainair	1.1 NNE;RR S	6600	28	Pole line N.
★ Otto Int,73A,LA-AQ	5.8 N Moriarty	6226	41 R1 L3 S1	Ltd 91 oct.
Portales	4.5 SW;RR NNW	4200	46 S1	73 oct.
Roy (NC)	1.5 N; RR W	5900	26	PRIVATE
SANTE FE (new)	9.8 WSW;hwy SE	6308	63h R1 L5 S1	91 oct airlines. Poles E.
" (old)	6.3 SW;hwy E	6550	45h S6	73,80 oct;91 oct in emerg.
Sky Court (Albuquerque)	5.6 ENE;hwy S	5400	30 S6	73 oct. No sto.
Socorro	2.5 S; hwy E	4759	60h R1 L5	Use rnwys only.
Taos	1.7 SSW;hwy W	6956	29	Poles ENE,WSW,WNW.
Tucumcari	7 E;hwy,RR S	4084	51h R1 L5 S6	80,91,100 oct.
Wagon Mound	0.6 WNW;RR E	6500	21	Pence N; mts SE, W.
West Mesa (Albuquerque)	3.8 W; hwy S	5100	60 S6	73,80 oct.

ALBUQUERQUE 29

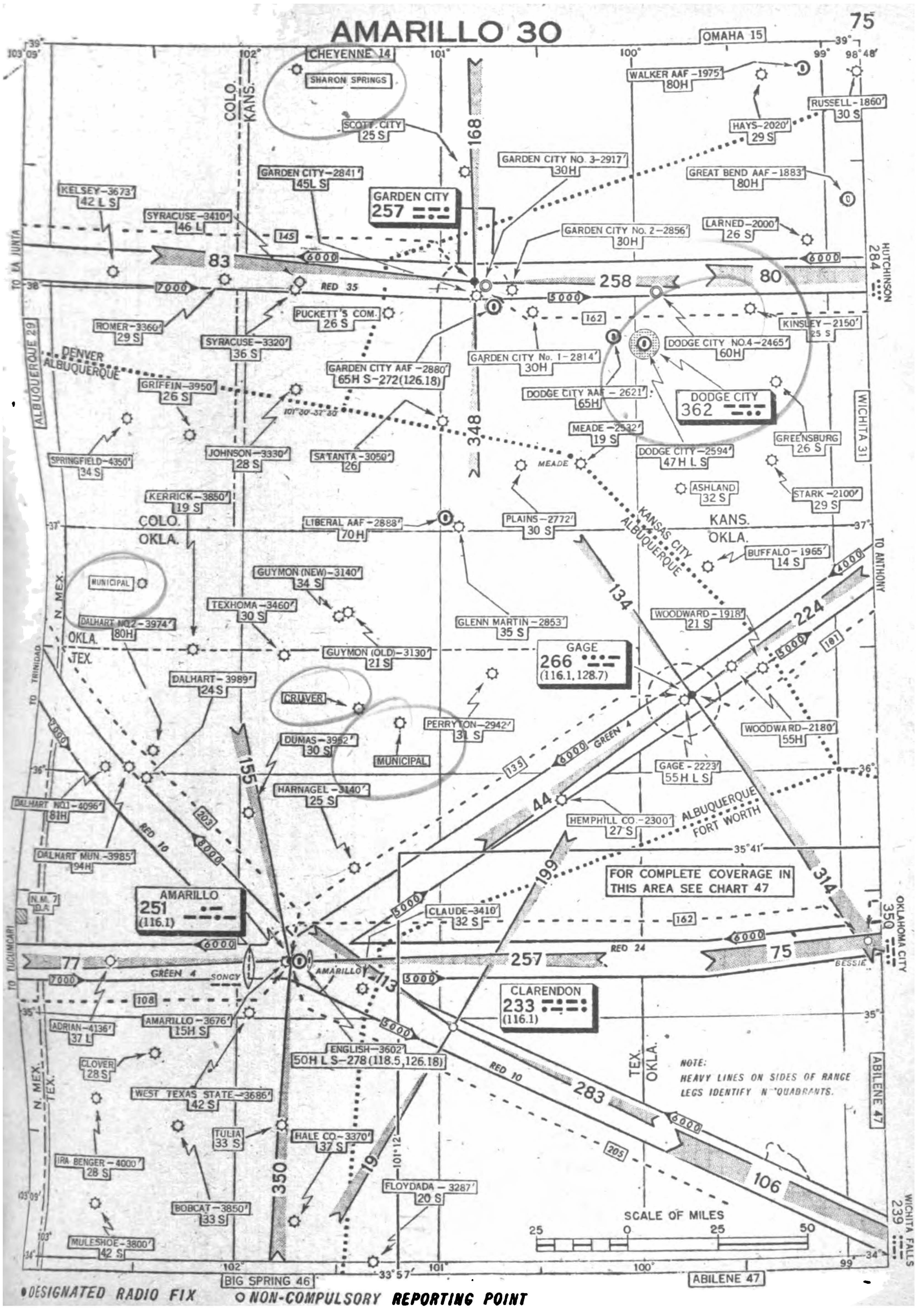


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY M QUADRANTS.

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

AMARILLO 30



● DESIGNATED RADIO FIX ○ NON-COMPULSORY REPORTING POINT

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
DODGE CITY	362 (OD)	MHT	(4)
GARDEN CITY	257 (GK)	SBRAZ-DT,168°,2.75	(4)
Garden City AAF	272 (126.18)	CA	(4): 126.18 (8-17)

OKLAHOMA

GAGE	266 (VM)(116.1)	SBRAZ-VDT,224°,2.1	(4): 116.1

TEXAS

AMARILLO	251 (AQ)(116.1)	SBRAZ-VDT,77°,2.1 to English Fld	(4): 116.1
AMARILLO LFM	(-)	LFM, 77°, 4.9	Amarillo
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°,2	(4), 116.1
ENGLISH FIELD (Amarillo)	278 (118.5) (126.18)	AC (ILS)	(4): 116.1,131.9,118.5,126.18
SONCY FM	(- - -)	FM, 257°, 11.5	Amarillo

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE 'PLUS COMPASS LOCATORS)			
ENGLISH, TEX.	110.3		209° Mag.	IM	MM .--- (.62)	OM -- (4.35)	
					VMR		OMR

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs., (4)-3105.4495.6210.3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Griffin (Walsh)	0.7 N,RR S	3950	26 S6	80 oct. Poles S.
Lamar,Kelsey 10,PU-WD	3.7 WSW,RR N	3673	42 L3 S2	73 oct.
Romer (Holly)	1.5 SSE,riv N	3360	29 S1	Ltd 80 oct.Pole line SW, NW.
Springfield, Com.	3.8 N,hwy W	4350	34 S1	73 oct. Poles NW, W, SW.
Trading Post (Kit Carson) (NC)	0.8 NW,crk E	4290	40	PRIVATE. Pole line S.

KANSAS

Ashland	1 E, RR S	1940	32 S2	80 oct. Poles S, E.
DODGE CITY	3.5 ENE,RR SE	2594	47h R1 L3 S6	80,91 oct. Fld lgts prior req.
(A) Dodge City AAF (A)	6 NW, RR S	2621	65h	INACTIVE.
(A) Dodge City No. 4 (A)	17.4 NNE	2465	60h	INACTIVE.
GARDEN CITY	3.3 E,riv S	2841	45 R1 L3 S6	73,80 oct. Lgts prior req.
(A) Garden City AAF (A)	9 ESE,riv S	2880	65h R1 S1	91, 100 oct.
Garden City No. 1	19.5 ESE	2814	30h	
Garden City No. 2	13.4 E	2856	30h	
(A) Garden City No. 3 (A)	6 ENE	2917	30h	INACTIVE.
Glenn Martin(Liberal)	2 ESE,hwy SW	2853	35 S2	80 oct. Pole line SE,SW.
(A) Great Bend AAF (A)	4.5 WSW	1883	80h	INACTIVE.
Greensburg	1 ESE,RR N	2230	26 S1	80 oct. Poles N.
Hays	1.5 E,RR S	2020	29 S6	80, 91 oct.
Johnson	0.5 N,hwy W	3330	28 S6	80 oct. Pole line N,NW,NE,S.
Kinsley	1.5 SSE,riv SE	2150	25 S1	80 oct. Pole line W
Larned	2 NW,rds E,S	2000	26 S6	80 oct.
(A) Liberal AAF (A)	1.5 WNW	2888	70h	INACTIVE.
Meade	3 ESE,hwy N	2532	19 S2	80 oct.Use strips only.Pole line N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Plains	1.3 NNE,hwy N	2772	30 S2	80 oct. Pole line S, E.
Pucketts Com.(Lakin)	3.5 S,riv N,NW	3050	26 S1	Ltd 80 oct. Trees N.
Russell	2.7 ESE,RR NE	1860	30 S4	80 oct.No sto. Poles N,S,NE.
Satanta	1 N,RR S	3050	26 S2	No fuel.
Scott City	1.3 ESE,hwy N	2980	25 S1	73 oct. Pole line N,NE,NW,SW.
Sharon Springs	1.2 NNW,RR S	3500	32 S1	80 oct.
Stark (Coldwater)	0.7 NE,RR SE	2100	29 S2	80 oct. Poles N,S,E,SE,NE.
Syracuse	1 N,riv S	3320	36 S2	80 oct. Pole line S,SE.
* Syracuse Int,16,PU-WD	3.7 NNE,hwy W	3410	46 L3	
(A) Walker AAF (Hays)(A)	12.5 E,hwy S	1975	80h	INACTIVE.

OKLAHOMA

Buffalo	0.6 NW,crk N	1965	14 S2	80 oct.
(P) Gage	1.8 SW,riv N	2223	55h R1 L5 S1	80 oct.
Guymon (new)	3 SW,hwy N	3140	34 S6	73, 80 oct. Pole lines N, E.
Guymon (old)	0.7 S,RR,hwy W	3130	21 S6	73 oct. Pwr line N, S. No sto.
Municipal (Boise City)	3 N,hwy W	4200	33	
Woodward	7.5 W,hwy S,E	2180	55h	
Woodward (mun.)	1.5 SE,hwy W	1918	21 L1 S6	80 oct.

TEXAS

* Adrian Int,91,LA-AQ	4.2 SSE,RR N	4136	37 L3	
Amarillo	6 ENE,RR NW	3676	15h S6	73 oct. Pole line N,S.
Bobcat (Dimmitt)	1.5 E,RR W	3850	33 S2	73 oct.
Claude	1.2 WNW,RR N	3410	32 S1	73 oct. Pole line S,N,NW.
Clover (Hereford)	2.2 NNE,hwy S	3800	28 S1	73 oct. Pole line N,E,SE.
Cruver	0.7 WNW,RR E	3200	40	Pole line W,E,SE,SW.
Dalhart	6.2 SSE,RR E	3980	24 S2	73 oct.
Dalhart mun.	3 SW, RR N	3989	94h	
Dalhart No. 1	9.5 WSW,RR SE	4096	81h	
Dalhart No. 2	5.5 NE,hwy NW	3974	80h	
Dumas	0.7 S,hwy W	3952	30 L S2	73 oct. Poles N.
(A) English (Amarillo)	9 ENE,RR N	3602	50h R3 L6 S6	100 oct. Poleline N,NW. INACTIVE.
Floydada	1.2 NNW,RR N	3287	20 S1	80 oct. Pole line S. RR SW.
Hale Co. (Plainview)	1.6 S,hwy E	3370	37 S6	73, 80 oct.
Harnagel (Borger)	2.5 SSW,RR N	3140	25 S2	80 oct. Use strips. RR E.
Hemphill Co.(Canadian)	1.5 SW, riv N	2300	27 S2	Ltd 73 oct.
Ira Benger (Friona)	1.8 NE,RR S	4000	28 S1	73 oct.
Kerrick	1.5 N, RR SW	3850	19 S1	80 oct. Pole line SW.
Muleshoe	1 ENE,hwy N	3800	42 S1	73 oct.
Municipal (Spearman)	0.8 NW,RR SE	3104	30	Pole line.
Perryton	3 ENE,hwy N	2942	31 S2	73 oct. Pole line E.
Texhoma	1 SSW,RR N	3460	30 S2	73 oct. Pole line N.
Tulia	1.5 NNW,RR W	3500	33 S1	73 oct. Pole line NE,E,SE.
West Texas State (Canyon)	3 N,hwy E	3686	42 S6	73 oct.

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANTHONY	382 (AY)	MHT	(4)
CASSODAY (Int.)	239 (CY)	MHT	(4)
HUTCHINSON	284 (HN)	SBMRLZ-DT; 350°, 3.4	(4)
Hutchinson NAS	323(142.74 on req)	CN	(3); 142.74
KECHI FM	(- - - -)	FM, 341°, 10.6	Wichita
OXFORD FM	(- -)	FM; 167°, 27	Wichita
SALINA	108.3 (NS)	VARW	
SMOKY HILL (Salina)(Army)	344 (DSN)	BMRLZ-DT	(4)
Smoky Hill AAF	396(116.1)(126.18)	CA(ILS);170°,5.05	(4); 116.1,126.18
TOWANDA FM	(-)	FM, 46°, 18.8	Wichita
VIOLA FM	(- - -)	FM, 226°, 24.7	Wichita
WICHITA	332 (WD)	SBRAZ-DT	(4)
Wichita Airport	278(126.18)(118.7)	AC(ILS);167°,0.9	(4);131.9,126.18,118.7

OKLAHOMA

ENID(Army)	209 (DND)	BMRLZ	(3); 126.18
Enid AAF	396 (126.18)	CA; 214°, 3.7	(3); 126.18)
PHILLIPS ARPT(Bartlesville)	278	CI	3105 (On req)
PONCA CITY	368(PC)(116.1)	MHVT	(4); 116.1
RED FORK FM	(- - -)	FM, 325°, 13.7	Tulsa
SKIATOOK FM	(- - - -)	FM, 298°, 17.8	Tulsa
TULSA AIRPORT	278(126.18)(118.5)	AC	(4);142.74,131.9,118.5. 126.18

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs.)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SMOKY HILL AAF, KANSAS	109.9	333.8	123° Mag.	IM (.19)	MM ·····(.89)	OM -- (4.20)
					MMK	OMK
WICHITA, KANS.	110.3		2° Mag.	IM ·····(.05)	MM	OM -- (5.37)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs (4)-3105,4495,6210,3117.5 kcs.; Parenthetical **Numbers in the Frequency** Column **indicate** VHF **on which** Voice **is** Available

AIRPORTS

KANSAS

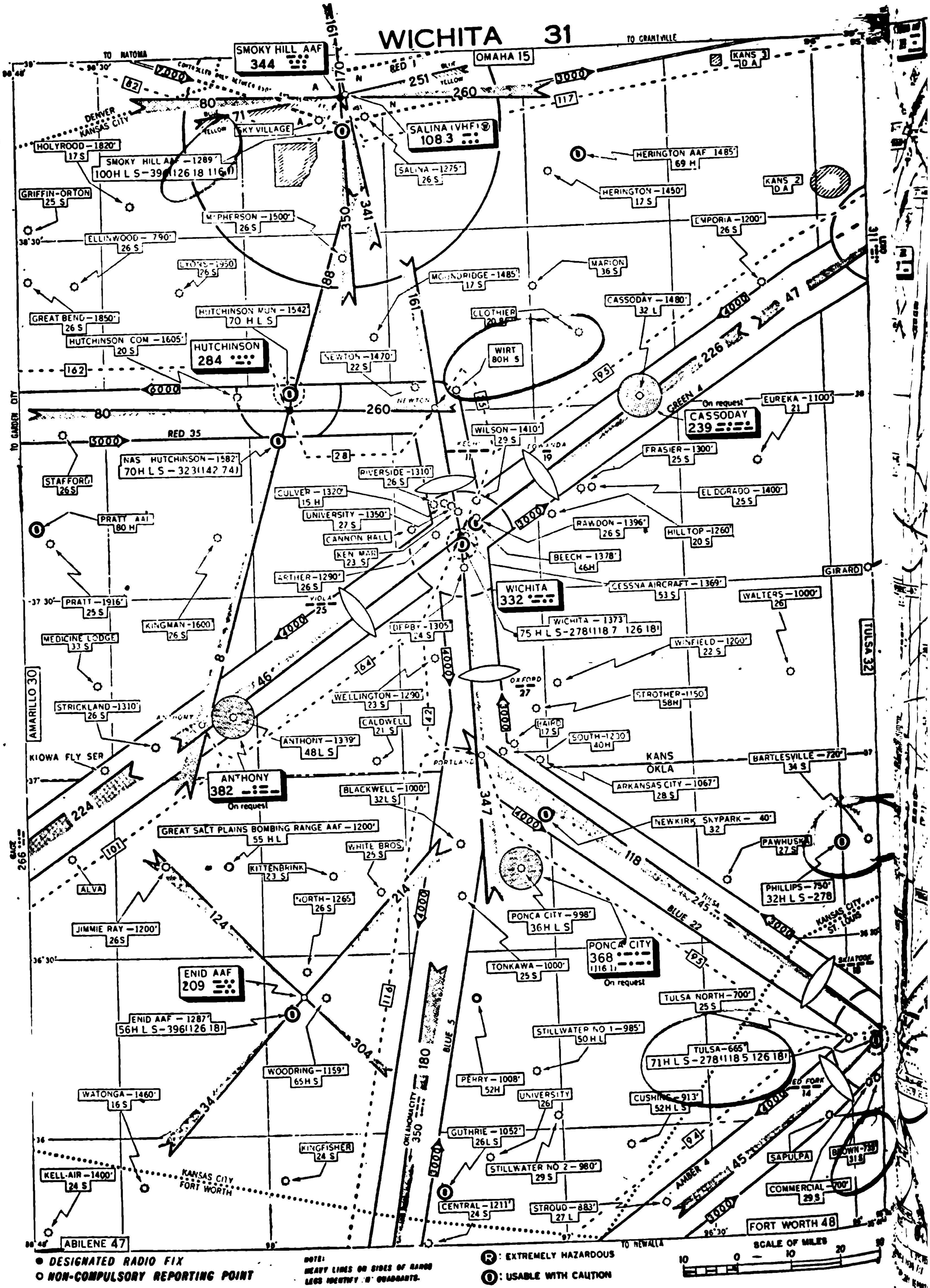
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abilene	1.7 WSW; RR N	1100	29 S6	80 oct. Trees E;pole line SE.
(P) Anthony,24,AQ-KC	3 WNW; hwy S	1339	48 R1 L3 S6	91 oct.
Arkansas City	3.5 S; RR W	1067	28 S6	73, 91 oct.
Arther Airfield (Wichita)	3 SW; RR N	1290	26 S6	73,91 oct. No sto.Poles S.
Baird (Arkansas City)	4 W; hwy S	1100	17 S2	73 oct. Pole line SW, S.
Beech (Wichita)	6 E; hwy N	1378	46h	Factory use only.
Caldwell	1.2 E; RR W	1140	21 S2	73 oct. Poles E, S
Cannon Ball (Wichita)	6.5 WSW;hwy N	1300	24 S6	80 oct. No sto.Pole line N.
★ Cassoday Int,34,AQ-KC	1 SSE; hwy W	1480	32 R1 L3	Twrs S.
Cessna Aircraft (Wichita)	4.5 SE; hwy W	1369	53 S1	80 oct.
Clothier (Cedar Point)	4 SSW;creek E	1320	20 S2	73 oct.
Culver (Wichita)	4 N; hwy W	1320	15h	
Derby	1 NNE; RR W	1305	24 S1	73 oct. Poles N.
El Dorado	3.6 SE; hwy W	1400	25 S6	80 oct. Soft, wet weather.
Ellinwood	1.5 NW; RR S	1790	26 S1	73 oct. Poles N.
Emporia	5.4 S; hwy E	1200	26 S6	80 oct. Poles E,SE,NE.
Eureka	3.2 E; RR N	1100	21	Pole line S.
Frasier (El Dorado)	2.5 S; riv W	1300	25 S6	80 oct. Poles E, NE.
Giffin-Orton (Hoisington)	1.3 NE; hwy S	1870	25 S2	80 oct. Poles S.
Great Bend Airpark	1.6 NNE; RR W	1850	26 S2	80 oct. Poles W.
Herington	1.5 SE; RR W	1450	17 S2	73 oct. Pole line N.
(A) Herington AAF (A)	7.5 ENE	1485	69h	INACTIVE.
Hilltop (Augusta)	2 NE; RR SE	1260	20 S1	73 oct.
Holyrood	0.5 ESE; RR N	1820	17 S1	73 oct. Poles N.
Hutchinson,com	5.5 W; wiv NE	1605	20 S4	80 oct.
(P) HUTCHINSON,MUN.	4 ENE; hwy S	1542	70h R1 L5 S6	80,91 oct.
(N) " NAS (N)	8.9 S;RR NNE	1582	70h R1 L5 S5	91,100 oct.
Ken-Mar (Wichita)	3 ENE; RR N	1375	23 S6	80 oct.No sto. Obsts sur fld.
Kingman	1.5 NNW;RR SW	1600	26 S1	73 oct. Trees S, SW.
Kiowa Flying Serv.(Kiowa)	2.5 WNW; RR S	1375	19 S1	80 oct. Pole line NNW,SSW.
Lyons	1.4 W; hwy N	1950	26 S6	80 oct. Pole line N.
McPherson	4 NNE; RR W	1500	26 S6	80 oct. Soft when wet.Poles E.
Marion	1.8 ESE;RR W	1370	36 S2	80 oct. Pole line SE.
Medicine Lodge	2.1 SE; RR S	1520	33 S2	80 oct.
Moundridge	2.2 WNW; RR NE	1485	17 S2	Ltd 80 oct. Poles W.
Newton	4 WNW; hwy S	1470	22 S1	80 oct. Poles SE.
Pratt	2.5 ENE;hwy S	1916	25 S6	73,80 oct.
(A) " AAF (A)	4 N; hwy E	1960	80h	INACTIVE.
Rawdon (Wichita)	6.7 E; hwy S	1396	26 S6	73 oct.
Riverside (Wichita)	4 NNW; riv E	1310	26 S1	80 oct. Poles sur fld.
Salina	2.5 SE;riv W	1275	26 S6	80,91 oct.
Sky Village (Salina)	6.6 WSW;RR SE	1270	20 S2	80 oct. Pole line S.
(A) Smoky Hill AAF(Salina)	4.5 SW; RR E	1289	100hR3 L5 S4	73,91,100 oct. No sto. (A)
South (Winfield)	14 SSW	1230	40h	
Stafford	2.6 WSW;RR N	1889	26 S6	80,91 oct. Poles N, S.
Strickland (Hazelton)	2.6 E; RR S	1310	26 S6	73,80 oct. Poles E, N.
Strother (Winfield)	5 SSW;hwy S	1150	58h	
University (Wichita)	5 NE; RR N	1350	27 S6	80,91 oct. Pole line E.
Walters (Sedan)	8 N; hwy W	1000	26	PRIVATE.
Wellington	3.5 N; RR W	1290	23 S2	80 oct. Pole line W,E,S.
(A) WICHITA	5.3 SE; hwy W	1373	75h R3 L5 S6	80,91,100 oct.50' pole N.
Wilson (Wichita)	7.5 NE;RR N	1410	29 S6	73 oct. No sto.
Winfield	2 E; RR S	1200	22 S2	73 oct.Lgt acft only.Pwr lineN.
Wirt (Newton)	4 ENE;rd S	1527	80h S4	80,91 oct.Pole line W,N.Rnwy info unverified.

OKLAHOMA

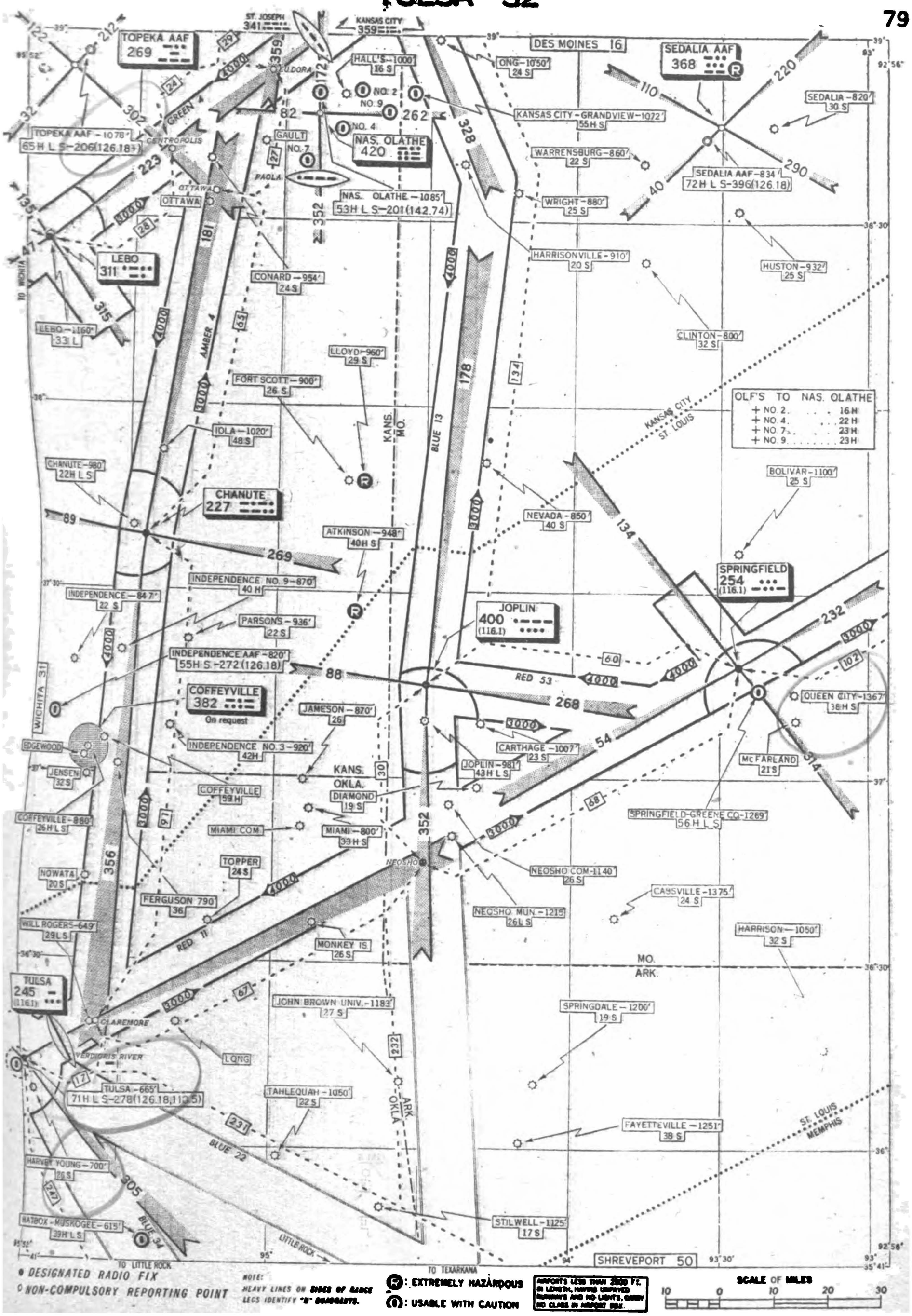
Alva	1.4 S; RR N	1320	26 S1	73 oct.
Bartlesville	4 E; rd S	720	34 S6	80 oct.
Blackwell	1.7 W; RR N	1000	32 L4 S6	80 oct.
Brown (Tulsa)	6 SE	735	31 S6	80,91 oct. Pole NW.
Central (Edmond)	2.6 NNE;RR W	1211	24 S1	73 oct.
Commercial (Tulsa)	5.4 SSE;hwy N	700	29 S6	73,80,91 oct. Trees SW.
(P) Cushing	2 S; RR E	913	52h L5 S6	73,80 oct.
(A) Enid AAF (A)	4 SSW; RR E	1287	56h R2 L5 S4	91,100 oct.
(A) Great Salt Plains (Jet)	6 NNE;dam 1 N	1200	55h L5	(A)
★ Guthrie Int,21,FV-WD	2 SSE;hwy W	1052	26 L3 S6	80 oct.
Jimmie Ray (Cherokee)	1.5 E; RR SW	1200	26 S1	80 oct. Trees S.
Kell-Air (Thomas)	1.2 SW; RR N	1400	24 S2	80 oct.
Kingfisher	1.3 NW; RR W	1060	24 S6	73 oct.
Kittenbrink (Jefferson)	2 E; RR W	1100	23 S2	80 oct. Trees N.
Newkirk Skypark	2.5 SE; RR SW	1140	32	Pole N, NW.
North (Enid)	3.8 N; RR E	1265	26 S6	80 oct.
Pawhuska	3.8 W; RR E	1000	27 S1	80 oct. Pole line NE.
(A) Perry (A)	6.6 N; hwy W	1008	52h	
Phillips (Bartlesville)	1.7 WNW;hwy S	750	32h R1 L4 S2	80,91 oct.
PONCA CITY	2.3 NNW;RR S,E	998	36h R1 L4 S6	73,87 oct. Antenna bet twr and
Sapulpa	1.5 ENE;RR W	730	26	Pole line S. hangar, lgtd.
(P) Stillwater #1	3.2 NNW;hwy E	985	50h L3	
" #2	5.6 SSE;hwy W	980	29 S6	73,80 oct.
★ Stroud Int,29A,AQ-LS	3 N; hwy W	883	27 L3	Pole line W lgtd.
Tonkawa	1.6 S;riv NW	1000	25 S1	73 oct. Pole line S, E.
(A,N)TULSA AIRPORT	6.2 NE;RR S	665	71h R2 L5 S6	80-100 oct.JP-1 NATS,NAFC.
Tulsa North (Tulsa)	4.5 NNW;RR E	700	25 S2	80,87 oct.Poles S,SW,SE.
University (Langston)	1 S; rd N	1025	26	Bldg SE corner.
Watonga	1.2 NW;riv SW	1460	16 S6	80 oct. Poles S.
White Brothers (Lamont)	2 WSW; RR E	1000	25 S1	73 oct.
(P) Woodring (Enid)	5 ESE; RR NW	1159	65h L S2	80 oct. Port rnwy lgts prior req.

h-hard surfaced **runways.** R-radio facilities. L-lighting facilities. S-servicing. (see **page 14**) (NC)-Not charted.

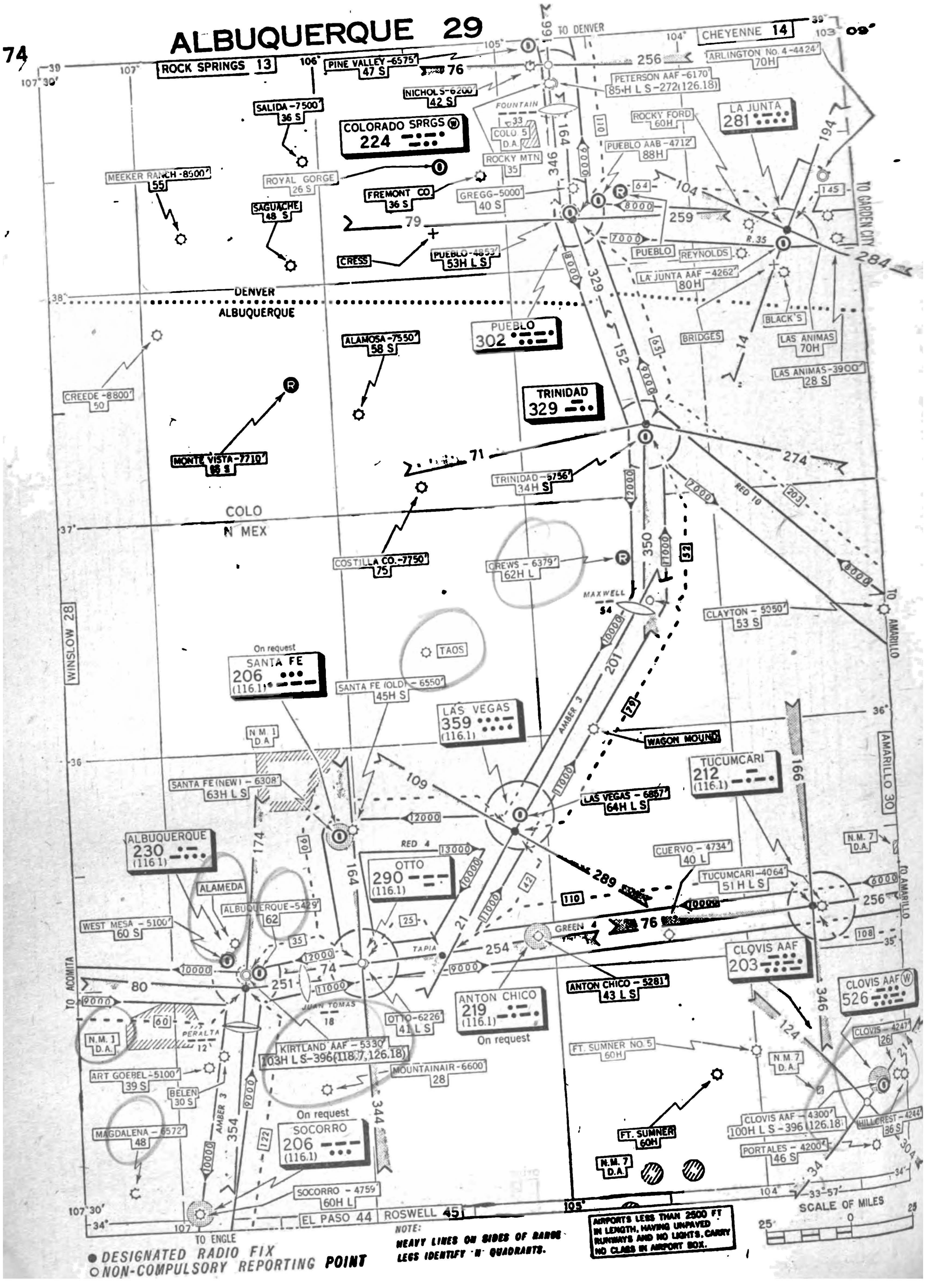
WICHITA 31


TO NATOMA
SMOKY HILL AAF 344
OMAHA 15
TO GRANTVILLE
KANS 1 D A
DENVER KANSAS CITY
HOLYROOD – 1820' 17 S
SMOKY HILL AAF – 1289'
SKY VILLAGE
SALINA (VHF) 108.3
SALINA – 1275' 26 S
HERINGTON AAF 1485' 69 M
HERINGTON – 1450' 17 S
KANS 2 D A
GRIFFIN-ORTON 25 S
McPHERSON – 1500' 26 S
EMPORIA – 1200' 26 S
ELLINWOOD – 790' 26 S
LYONS – 1950' 26 S
MOUNDRIDGE – 1485' 17 S
MARION 36 S
CASSODAY – 1480' 32 L
GREAT BEND – 1850' 26 S
HUTCHINSON MUN – 1542' 70 H L S
HUTCHINSON COM – 1605' 20 S
HUTCHINSON 284
CLOTHIER 20 S
WIRT 80H S
NEWTON – 1470' 22 S
TO GARDEN CITY
RED 35
NAS HUTCHINSON – 1582' 70H L S – 323(142 741)
WILSON – 1410' 29 S
On request
CASSODAY 239
EUREKA – 1100' 21
FRASIER – 1300' 25 S
STAFFORD 26 S
RIVERSIDE – 1310' 26 S
EL DORADO – 1400' 25 S
CULVER – 1320' 15 H
UNIVERSITY – 1350' 27 S
CANNON HALL
KEN MAR 23 S
RAWDON – 1396' 26 S
HILL TOP – 1260' 20 S
PRATT AAI 80 H
BEECH – 1378' 46H
ARTHER – 1290' 26 S
GIRARD
WICHITA 332
CESSNA AIRCRAFT – 1369' 53 S
WALTERS – 1000' 26
PRATT – 1916' 25 S
KINGMAN – 1600' 26 S
DERBY – 1305' 24 S
WICHITA – 1373' 75 H L S – 278(118 7 126 18)
MEDICINE LODGE 33 S
WINFIELD – 1200' 22 S
TULSA 32
AMARILLO 30
STRICKLAND – 1310' 26 S
WELLINGTON – 1290' 23 S
OXFORD 27
STROTHER – 1150' 58H
CALDWELL 21 S
HAIRD 17 S
SOUTH – 1200' 40H
ANTHONY – 1339' 48L S
KIOWA FLY SER
KANS OKLA
BARTLESVILLE – 720' 34 S
ANTHONY 382
On request
ARKANSAS CITY – 1067' 28 S
BLACKWELL – 1000' 32L S
NEWKIRK SKYPARK – 40' 32
GREAT SALT PLAINS BOMBING RANGE AAF – 1200' 55 H L
WHITE BROS 25 S
PAWHUSKA 27 S
KITTENBRINK 23 S
ALVA
NORTH – 1265' 26 S
PHILLIPS – 750' 32H L S – 278
PONCA CITY – 998' 36H L S
JIMMIE RAY – 1200' 26S
PONCA CITY 368 (116 1)
On request
TONKAWA – 1000' 25 S
TULSA NORTH – 700' 25 S
ENID AAF 209
STILLWATER NO 1 – 985' 50 H L
ENID AAF – 1287' 56H L S – 396(126 181)
TULSA – 665' 71H L S – 278(118 5 126 18)
WOODRING – 1159' 65H S
PERRY – 1008' 52H
UNIVERSITY 26
CUSHING – 913' 52H L S
WATONGA – 1460' 16 S
GUTHRIE – 1052' 26L S
KINGFISHER 24 S
STILLWATER NO 2 – 980' 29 S
SAPULPA
KELL-AIR – 1400' 24 S
CENTRAL – 1211' 24 S
STROUD – 883' 27 L
COMMERCIAL – 700' 29 S
ABILENE 47
FORT WORTH 48
TO RENWICK
SCALE OF MILES
10 0 10 20
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS INDICATE "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

TULSA 32


TOPEKA AAF 269
TOPEKA AAF – 1078'
65 H L S–206(126.18)
LEBO 311
LEBO – 1160'
33 L
CHANUTE 227
CHANUTE – 980'
22 H L S
INDEPENDENCE – 847'
22 S
INDEPENDENCE NO. 9 – 870'
40 H
PARSONS – 936'
22 S
INDEPENDENCE AAF – 820'
55 H S – 272(126.18)
COFFEYVILLE 382
On request
COFFEYVILLE – 880'
26 H L S
NOWATA
20 S
WILL ROGERS – 649'
29 L S
TULSA 245
TULSA – 665'
71 H L S–278(126.18,113.5)
MATBOX – MUSKOGEE – 615'
39 H L S
FERGUSON 790'
36
OTTAWA
CENTROPOLIS
PAOLA
GAULT
NO. 7
NO. 4
NO. 2
NO. 9
NAS. OLATHE 420
NAS. OLATHE – 1085'
53 H L S–201(142.74)
HALL'S – 1000'
16 S
ST. JOSEPH 341
KANSAS CITY 359
ELDORA
GREEN
AMBER 4
CONARD – 954'
24 S
LLOYD – 960'
29 S
FORT SCOTT – 900'
26 S
IDLA – 1020'
48 S
ATKINSON – 948'
40 H S
JAMESON – 870'
26
KANS.
MO.
OKLA.
DIAMOND
19 S
MIAMI COM.
MIAMI – 800'
33 H S
TOPPER
24 S
MONKEY IS.
26 S
JOHN BROWN UNIV. – 1183'
27 S
LONG
TAHLEQUAH – 1050'
22 S
ARK.
OKLA.
BLUE 13
BLUE 22
BLUE 34
RED 11
RED 53
WICHITA 31
TO WICHITA
TO LITTLE ROCK
TO TEXARKANA
LITTLE ROCK
VERDIGRIS RIVER
CLAREMORE
DES MOINES 16
ONG – 1050'
24 S
KANSAS CITY – GRANDVIEW – 1072'
55 H S
WARRENSBURG – 860'
22 S
WRIGHT – 880'
25 S
HARRISONVILLE – 910'
20 S
CLINTON – 800'
32 S
SEDALIA AAF 368
SEDALIA – 820'
30 S
SEDALIA AAF – 834'
72 H L S–396(126.18)
HUSTON – 932'
25 S
OLF'S TO NAS. OLATHE
+ NO. 2 . . . 16 H
+ NO. 4 . . . 22 H
+ NO. 7 . . . 23 H
+ NO. 9 . . . 23 H
KANSAS CITY
ST. LOUIS
BOLIVAR – 1100'
25 S
NEVADA – 850'
40 S
SPRINGFIELD 254
(116.1)
JOPLIN 400
(116.1)
CARTHAGE – 1007'
23 S
JOPLIN – 981'
43 H L S
QUEEN CITY – 1367'
38 H S
McFARLAND
21 S
SPRINGFIELD-GREENE CO. – 1269'
56 H L S
NEOSHO COM. – 1140'
26 S
NEOSHO MUN. – 1215'
26 L S
CAYSVILLE – 1375'
24 S
HARRISON – 1050'
32 S
MO.
ARK.
SPRINGDALE – 1200'
19 S
FAYETTEVILLE – 1251'
38 S
ST. LOUIS
MEMPHIS
STILWELL – 1125'
17 S
SHREVEPORT 50
SCALE OF MILES
10 0 10 20 30
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF BASE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
(R): USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, GIVEN NO CLASS IN AIRPORT SEQ.

ALBUQUERQUE 29

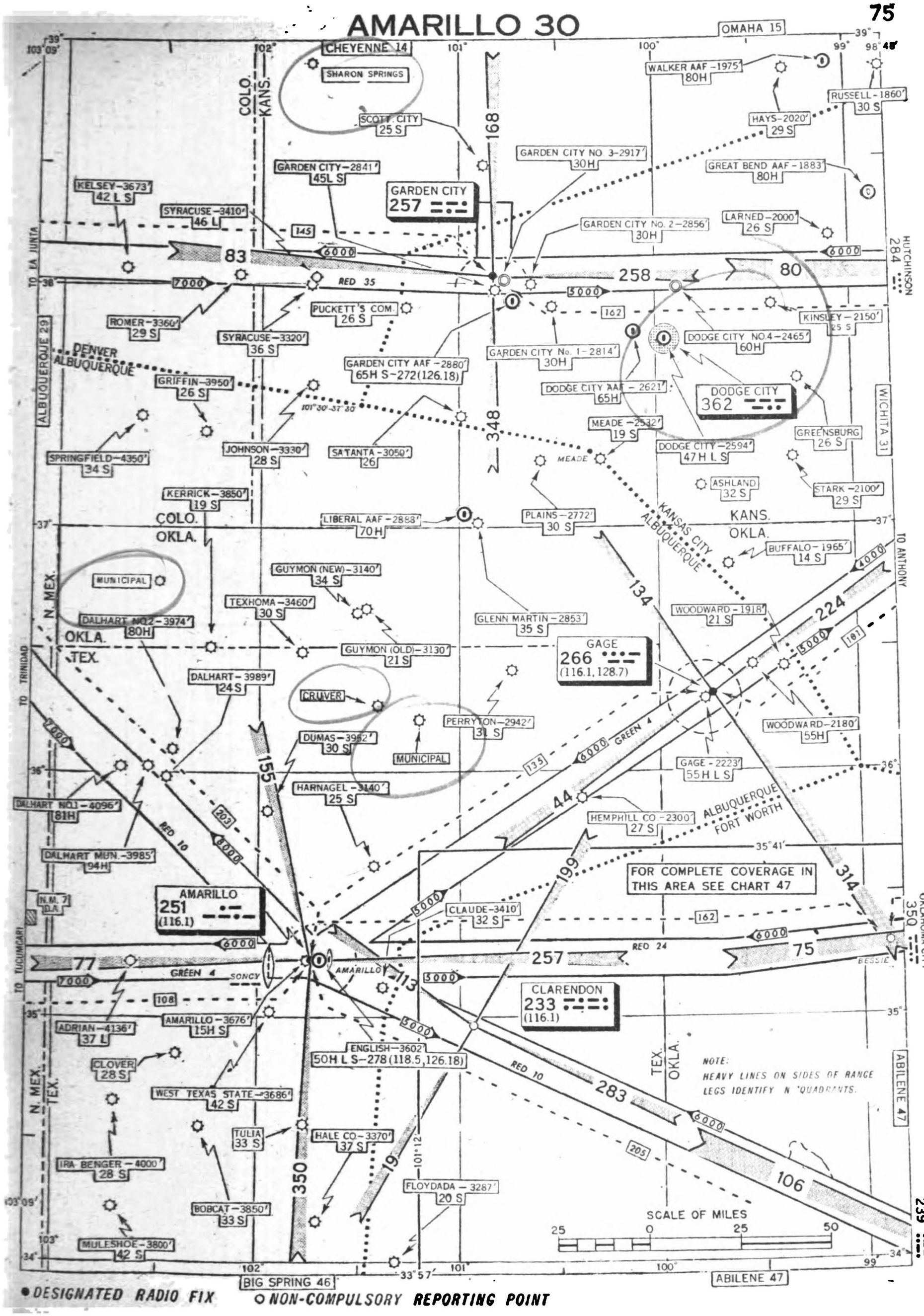


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

AMARILLO 30



● DESIGNATED RADIO FIX ○ NON-COMPULSORY REPORTING POINT

RADIO

LOCATION	FREQ.. IDENT	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
KANSAS			
DODGE CITY	362 (OD)	MHT	(4)
GARDEN CITY	257 (GK)	SBRAZ-DT,168°,2.75	(4)
Garden City AAF	272 (126.18)	CA	(4): 126.18 (8-17)
OKLAHOMA			
GAGE	266 (VM)(116.1)	SBRAZ-VDT,224°,2.1	(4): 116.1
TEXAS			
AMARILLO	251 (AQ)(116.1)	SBRAZ-VDT,77°,2.1 to English Fld	(4): 116.1
AMARILLO LFM	(-)	LFM, 77°, 4.9	Amarillo
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°,2	(4), 116.1
ENGLISH FIELD (Amarillo)	278 (118.5) (126.18)	AC (ILS)	(4): 116.1,131.9,118.5,126.18
SONCY FM	(- - -)	FM, 257°, 11.5	Amarillo

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ENGLISH, TEX.	110.3		209° Mag.	IM		MM .--- (.62)	OM -- (4.35)
				MMR			OMR

S-Simultaneous Range and Voice; W-Without Voice. Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs.,
(4)-3105.4495.6210.3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
COLORADO				
Griffin (Walsh)	0.7 N,RR S	3950	26 S6	80 oct. Poles S.
Lamar,Kelsey 10,PU-WD	3.7 WSW,RR N	3673	42 L3 S2	73 oct.
Romer (Holly)	1.5 SSE,riv N	3360	29 S1	Ltd 80 oct.Pole line SW, NW.
Springfield, Com.	3.8 N,hwy W	4350	34 S1	73 oct. Poles NW, W, SW.
Trading Post (Kit Carson) (NC)	0.8 NW,crk E	4290	40	PRIVATE. Pole line S.
KANSAS				
Ashland	1 E, RR S	1940	32 S2	80 oct. Poles S, E.
DODGE CITY	3.5 ENE,RR SE	2594	47h R1 L3 S6	80,91 oct. Fld lgts prior req.
(A) Dodge City AAF (A)	6 NW, RR S	2621	65h	INACTIVE.
(A) Dodge City No. 4 (A)	17.4 NNE	2465	60h	INACTIVE.
GARDEN CITY	3.3 E,riv S	2841	45 R1 L3 S6	73,80 oct. Lgts prior req.
(A) Garden City AAF (A)	9 ESE,riv S	2880	65h R1 S1	91, 100 oct.
Garden City No. 1	19.5 ESE	2814	30h	
Garden City No. 2	13.4 E	2856	30h	
(A) Garden City No. 3 (A)	6 ENE	2917	30h	
Glenn Martin(Liberal)	2 ESE,hwy SW	2853	35 S2	INACTIVE.
(A) Great Bend AAF (A)	4.5 WSW	1883	60h	80 oct. Pole line SE,SW.
Greensburg	1 ESE,RR N	2230	26 S1	INACTIVE.
Hays	1.5 E,RR S	2020	29 S6	80 oct. Poles N.
Johnson	0.5 N,hwy W	3330	28 S6	80, 91 oct.
Kinsley	1.5 SSE,riv SE	2150	25 S1	80 oct. Pole line N,NW,NE,S.
Larned	2 NW,rds E,S	2000	26 S6	80 oct. Pole line W
(A) Liberal AAF (A)	1.5 WNW	2888	70h	80 oct.
Meade	3 ESE,hwy N	2832	19 S2	INACTIVE.
Plains	1.3 NNE,hwy N	2772	30 S2	80 oct. Pole line S, E.
Puckells Com.(Lakin)	3.5 S,riv N,NW	3050	26 S1	Ltd 80 oct. Trees N.
Russell	2.7 ESE,RR NE	1860	30 S4	80 oct.No sto. Poles N,S,NE.
Satanta	1 N,RR S	3050	26 S2	No fuel.
Scott City	1.3 ESE,hwy N	2980	25 S1	73 oct. Pole line N,NE,NW,SW.
Sharon Springs	1.2 NNW,RR S	3500	32 S1	80 oct.
Stark (Coldwater)	0.7 NE,RR SE	2100	29 S2	80 oct. Poles N,S,E,SE,NE.
Syracuse	1 N,riv S	3320	36 S2	80 oct. Pole line S,SE.
* Syracuse Int,16,PU-WD	3.7 NNE,hwy W	3410	46 L3	
(A) Walker AAF (Hays)(A)	12.5 E,hwy S	1975	80h	INACTIVE.
OKLAHOMA				
Buffalo	0.6 NW,crk N	1965	14 S2	80 oct.
(P) Gage	1.8 SW,riv N	2223	55h R1 L5 S1	80 oct.
Guymon (new)	3 SW,hwy N	3140	34 S6	73, 80 oct. Pole lines N, E.
Guymon (old)	0.7 S,RR,hwy W	3130	21 S6	73 oct. Pwr line N, S. No sto.
Municipal (Boise City)	3 N,hwy W	4200	33	
Woodward	7.5 W,hwy S,E	2180	55h	
Woodward (mun.)	1.5 SE,hwy W	1918	21 L1 S6	80 oct.
TEXAS				
* Adrian Int,91,LA-AQ	4.2 SSE,RR N	4136	37 L3	
Amarillo	6 ENE,RR NW	3676	15h S6	73 oct. Pole line N,S.
Bobcat (Dimmitt)	1.5 E,RR W	3850	33 S2	73 oct.
Claude	1.2 WNW,RR N	3410	32 S1	73 oct. Pole line S,N,NW.
Clover (Hereford)	2.2 NNE,hwy S	3800	28 S1	73 oct. Pole line N,E,SE.
Cruver	0.7 WNW,RR E	3200	40	Pole line W,E,SE,SW.
Dalhart	6.2 SSE,RR E	3980	24 S2	73 oct.
Dalhart mun.	3 SW, RR N	3989	94h	
Dalhart No. 1	9.5 WSW,RR SE	4096	81h	
Dalhart No. 2	5.5 NE,hwy NW	3974	80h	
Dumas	0.7 S,hwy W	3952	30 L S2	73 oct. Poles N.
(A) English (Amarillo)	9 ENE,RR N	3602	50h R3 L6 S6	100 oct. Poleline N,NW. INACTIVE.
Floydada	1.2 NNW,RR N	3287	20 S1	80 oct. Pole line S. RR SW.
Hale Co. (Plainview)	1.6 S,hwy E	3370	37 S6	73, 80 oct.
Harnagel (Borger)	2.5 SSW,RR N	3140	25 S2	80 oct. Use strips. RR E.
Hemphill Co.(Canadian)	1.5 SW, riv N	2300	27 S2	Ltd 73 oct.
Ira Benger (Friona)	1.8 NE,RR S	4000	28 S1	73 oct.
Kerrick	1.5 N, RR SW	3850	19 S1	80 oct. Pole line SW.
Muleshoe	1 ENE,hwy N	3800	42 S1	73 oct.
Municipal (Spearman)	0.8 NW,RR SE	3104	30	Pole line.
Perryton	3 ENE,hwy N	2942	31 S2	73 oct. Pole line E.
Texhoma	1 SSW,RR N	3460	30 S2	73 oct. Pole line N.
Tulia	1.5 NNW,RR W	3500	33 S1	73 oct. Pole line NE,E,SE.
West Texas State (Canyon)	3 N,hwy E	3686	42 S6	73 oct.

RADIO — KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANTHONY	382 (AY)	MRT	(4)
CASSODAY (Int.)	239 (CY)	MRT	(4)
HUTCHINSON	284 (HN)	SBMRLZ-DT;350°,3.4	(4)
Hutchinson NAS	323(142.74 on req)	CN	(3); 142.74
KECHI FM	(- - - -)	FM, 341°,10.6	Wichita
OXFORD FM	(- -)	FM; 167°, 27	Wichita
SALINA	108.3 (NS)	VARW	
SMOKY HILL (Salina)(Army)	344 (DSN)	BMRLZ-DT	(4)
Smoky Hill AAF	396(116.1)(126.18)	CA(ILS);170°,5.05	(4); 116.1,126.18
TOWANDA FM	(-)	FM, 46°,18.8	Wichita
VIOLA FM	(- - -)	FM, 226°, 24.7	Wichita
WICHITA	332 (WD)	SBRAZ-DT	(4)
Wichita Airport	278(126.18)(118.7)	AC(ILS);167°,0.9	(4);131.9,126.18,118.7

OKLAHOMA

ENID(Army)	209 (DND)	BMRLZ	(3); 126.18
Enid AAF	396 (126.18)	CA; 214°,3.7	(3); 126.18)
PHILLIPS ARPT(Bartlesville)	278	CI	3105 (On req)
PONCA CITY	368(PC)(116.1)	MHVT	(4); 116.1
RED FORK FM	(- - -)	FM, 325°,13.7	Tulsa
SKIATOOK FM	(- - - -)	FM, 298°,17.8	Tulsa
TULSA AIRPORT	278(126.18)(118.9)	AC	(4);142.74,131.9,118.5, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
SMOKY HILL AAF, KANSAS	109.9	333.8	123° Mag.	IM (.19)	MM ·····(.89)	OM -- (4.20)	
					MMK	OMK	
WICHITA, KANS.	110.3		2° Mag.	IM ·····(.05)	MM	OM -- (5.37)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs, (4)-3105,4495,6210,3117 5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abilene	1.7 WSW; RR N	1100	29 S6	80 oct. Trees E;pole line SE.
(P) Anthony,24,AQ-KC	3 WNW; hwy S	1339	48 R1 L3 S6	91 oct.
Arkansas City	3.5 S; RR W	1067	28 S6	73, 91 oct.
Arther Airfield (Wichita)	3 SW; RR N	1290	26 S6	73,91 oct. No sto.Poles S.
Baird (Arkansas City)	4 W; hwy S	1100	17 S2	73 oct. Pole line SW, S.
Beech (Wichita)	6 E; hwy N	1378	46h	Factory use only.
Caldwell	1.2 E; RR W	1140	21 S2	73 oct. Poles E, S
Cannon Ball (Wichita)	6.5 WSW;hwy N	1300	24 S6	80 oct. No sto.Pole line N.
★ Cassoday Int,34,AQ-KC	1 SSE; hwy W	1480	32 R1 L3	Twrs S.
Cessna Aircraft (Wichita)	4.5 SE; hwy W	1369	53 S1	80 oct.
Clothier (Cedar Point)	4 SSW;creek E	1320	20 S2	73 oct.
Culver (Wichita)	4 N; hwy W	1320	15h	
Derby	1 NNE; RR W	1305	24 S1	73 oct. Poles N.
El Dorado	3.6 SE; hwy W	1400	25 S6	80 oct. Soft, wet weather.
Ellinwood	1.5 NW; RR S	1790	26 S1	73 oct. Poles N.
Emporia	5.4 S; hwy E	1200	26 S6	80 oct. Poles E,SE,NE.
Eureka	3.2 E; RR N	1100	21	Pole line S.
Frasier (El Dorado)	2.5 S; riv W	1300	25 S6	80 oct. Poles E, NE.
Giffin-Orton (Hoisington)	1.3 NE; hwy S	1870	25 S2	80 oct. Poles S.
Great Bend Airpark	1.6 NNE; RR W	1850	26 S2	80 oct. Poles W.
Herington	1.5 SE; RR W	1450	17 S2	73 oct. Pole line N.
(A) Herington AAF (A)	7.5 ENE	1485	69h	INACTIVE.
Hilltop (Augusta)	2 NE; RR SE	1260	20 S1	73 oct.
Holyrood	0.5 ESE; RR N	1820	17 S1	73 oct. Poles N.
Hutchinson,com	5.5 W; riv NE	1605	20 S4	80 oct.
(P) HUTCHINSON,MUN.	4 ENE; hwy S	1542	70h R1 L5 S6	80,91 oct.
(N) " NAS (N)	8.9 S;RR NNE	1582	70h R1 L5 S5	91,100 oct.
Ken-Mar (Wichita)	3 ENE; RR N	1375	23 S6	80 oct.No sto. Obsts aur fld.
Kingman	1.5 NNW;RR SW	1600	26 S1	73 oct. Trees S, SW.
Kiowa Flying Serv.(Kiowa)	2.5 WNW; RR S	1375	19 S1	80 oct. Pole line NNW,SSW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (see page 14) (NC)-Not charted.

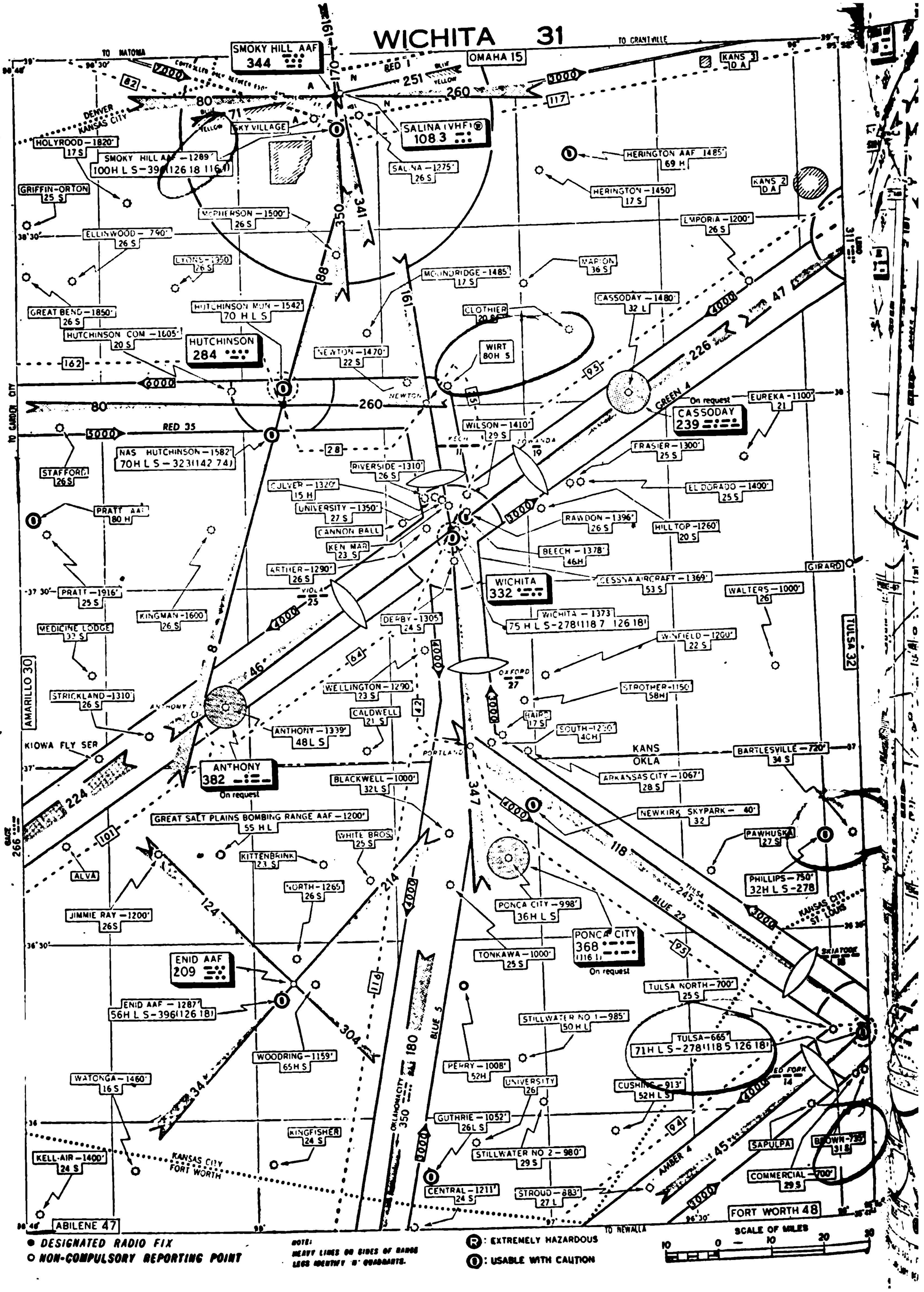
KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lyons	1.4 W; hwy N	1950	26 S6	80 oct. Pole line N.
McPherson	4 NNE; RR W	1500	26 S6	80 oct. Soft when wet.Poles E.
Marion	1.8 ESE;RR W	1370	36 S2	80 oct. Pole line SE.
Medicine Lodge	2.1 SE; RR S	1520	33 S2	80 oct.
Moundridge	2.2 WNW; RR NE	1485	17 S2	Ltd 80 oct. Poles W.
Newton	4 WNW; hwy S	1470	22 S1	80 oct. Poles SE.
Pratt	2.5 ENE;hwy S	1916	25 S6	73,80 oct.
(A) " AAF (A)	4 N; hwy E	1960	80h	INACTIVE.
Rawdon (Wichita)	6.7 E; hwy S	1396	26 S6	73 oct.
Riverside (Wichita)	4 NNW; riv E	1310	26 S1	80 oct. Poles sur fld.
Salina	2.5 SE;riv W	1275	26 S6	80,91 oct.
Sky Village (Salina)	6.6 WSW;RR SE	1270	20 S2	80 oct. Pole line S.
(A) Smoky Hill AAF(Salina)	4.5 SW; RR E	1289	100hR3 L5 S4	73,91,100 oct. No sto. (A)
South (Winfield)	14 SSW	1230	40h	
Stafford	2.6 WSW;RR N	1889	26 S6	80,91 oct. Poles N, S.
Strickland (Hazelton)	2.6 E; RR S	1310	26 S6	73,80 oct. Poles E, N.
Strother (Winfield)	5 SSW;hwy S	1150	58h	
University (Wichita)	5 NE; RR N	1350	27 S6	80,91 oct. Pole line E.
Walters (Sedan)	8 N; hwy W	1000	26	PRIVATE.
Wellington	3.5 N; RR W	1290	23 S2	80 oct. Pole line W,E,S.
(A) WICHITA	5.3 SE; hwy W	1373	75h R3 L5 S6	80,91,100 oct.50' pole N.
Wilson (Wichita)	7.5 NE;RR N	1410	29 S6	73 oct. No sto.
Winfield	2 E; RR S	1200	22 S2	73 oct.Lgt acft only.Pwr lineN.
Wirt (Newton)	4 ENE;rd S	1527	80h S4	80,91 oct.Pole line W,N.Rnwy info unverified.

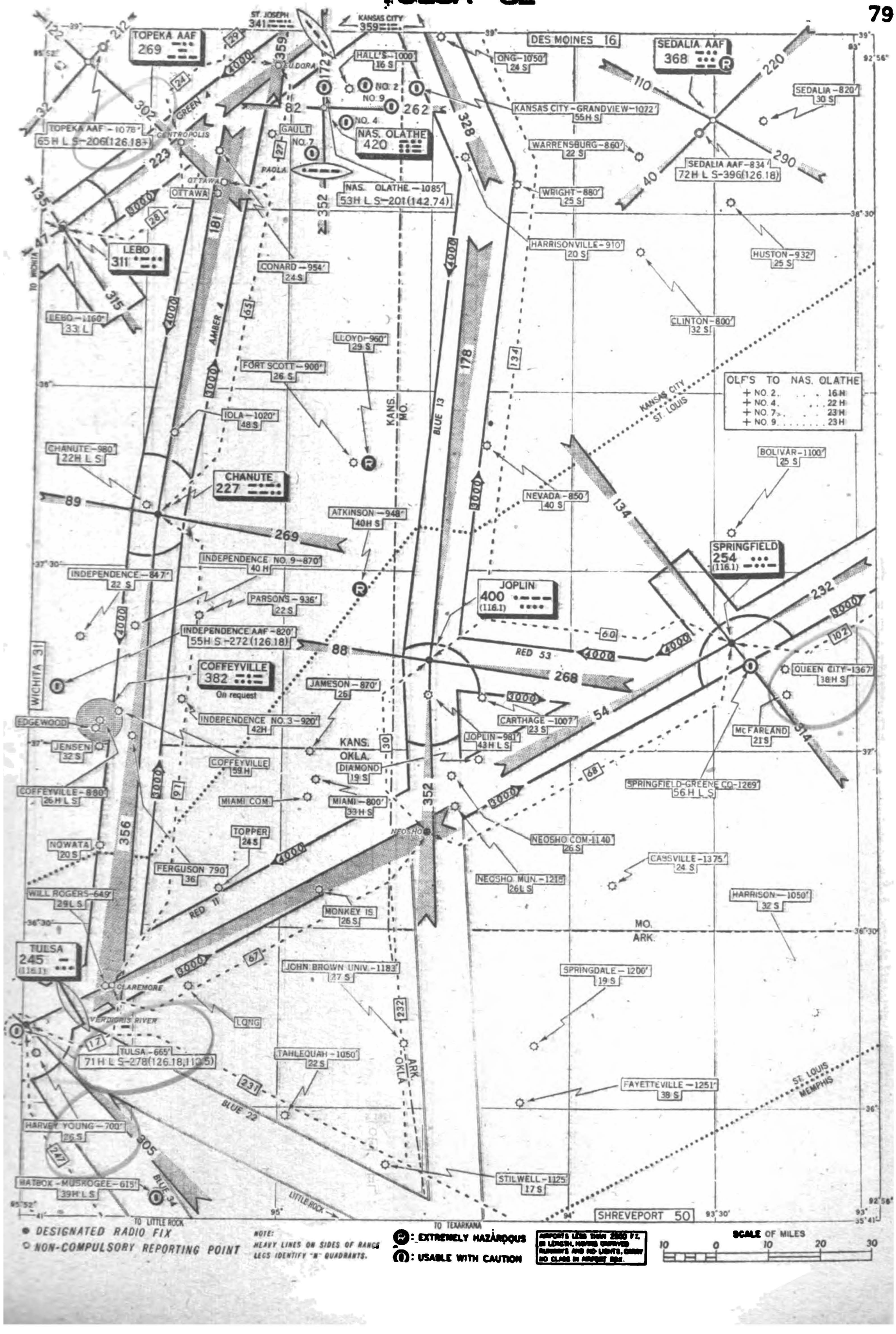
OKLAHOMA

Alva	1.4 S; RR N	1328	26 S1	73 oct.
Bartlesville	4 E; rd S	720	34 S6	80 oct.
Blackwell	1.7 W; RR N	1000	32 L4 S6	80 oct.
Brown (Tulsa)	6 SE	735	31 S6	80,91 oct. Pole NW.
Central (Edmond)	2.6 NNE;RR W	1211	24 S1	73 oct.
Commercial (Tulsa)	5.4 SSE;hwy N	700	29 S6	73,80,91 oct. Trees SW.
(P) Cushing	2 S; RR E	913	52h L5 S6	73,80 oct.
(A) Enid AAF (A)	4 SSW; RR E	1287	56h R2 L5 S4	91,100 oct.
(A) Great Salt Plains (Jet)	6 NNE;dam 1 N	1200	55h L5	(A)
★ Guthrie Int,21,FV-WD	2 SSE;hwy W	1052	26 L3 S6	80 oct.
Jimmie Ray (Cherokee)	1.5 E; RR SW	1200	26 S1	80 oct. Trees S.
Kell-Air (Thomas)	1.2 SW; RR N	1400	24 S2	80 oct.
Kingfisher	1.3 NW; RR W	1060	24 S6	73 oct.
Kittenbrink (Jefferson)	2 E; RR W	1100	23 S2	80 oct. Trees N.
Newkirk Skypark	2.5 SE; RR SW	1140	32	Pole N, NW.
North (Enid)	3.8 N; RR E	1265	26 S6	80 oct.
Pawhuska	3.8 W; RR E	1000	27 S1	80 oct. Pole line NE.
(A) Perry (A)	6.6 N; hwy W	1008	52h	
Phillips (Bartlesville)	1.7 WNW;hwy S	750	32h R1 L4 S2	80,91 oct.
PONCA CITY	2.3 NNW;RR S,E	998	36h R1 L4 S6	73,87 oct. Antenna bet twr and
Sapulpa	1.5 ENE;RR W	730	26	Pole line S. hangar, lgtd.
(P) Stillwater #1	3.2 NNW;hwy E	985	50h L3	
" #2	5.6 SSE;hwy W	980	29 S6	73,80 oct.
★ Stroud Int,29A,AQ-LS	3 N; hwy W	883	27 L3	Pole line W lgtd.
Tonkawa	1.6 S;riv NW	1000	25 S1	73 oct. Pole line S, E.
(A,N)TULSA AIRPORT	6.2 NE;RR S	665	71h R2 L5 S6	80-100 oct.JP-1 NATS,NAFC.
Tulsa North (Tulsa)	4.5 NNW;RR E	700	25 S2	80,87 oct.Poles S,SW,SE.
University (Langston)	1 S; rd N	1025	26	Bldg SE corner.
Watonga	1.2 NW;riv SW	1460	16 S6	80 oct. Poles S.
White Brothers (Lamont)	2 WSW; RR E	1000	25 S1	73 oct.
(P) Woodring (Enid)	5 ESE; RR NW	1159	65h L S2	80 oct. Port rnwy lgts prior req.

WICHITA 31


TO NATOMA
SMOKY HILL AAF 344
OMAHA 15
TO GRANTVILLE
KANS 3 D A
DENVER KANSAS CITY
SKY VILLAGE
SALINA (VHF) 108.3
HOLYROOD – 1820' 17 S
SMOKY HILL AAF – 1289' 100 H L S – 3961126 18 1161
SALINA – 1275' 26 S
HERINGTON AAF 1485' 69 H
HERINGTON – 1450' 17 S
KANS 2 D A
GRIFFIN-ORTON 25 S
MCPHERSON – 1500' 26 S
EMPORIA – 1200' 26 S
ELLINWOOD – 790' 26 S
LYONS – 1350' 26 S
MOUNDRIDGE – 1485' 17 S
MARION 36 S
GREAT BEND – 1850' 26 S
HUTCHINSON MUN – 1542' 70 H L S
CASSODAY – 1480' 32 L
CLOTHIER 20 S
HUTCHINSON COM – 1605' 20 S
HUTCHINSON 284
WIRT 80H S
NEWTON – 1470' 22 S
NEWTON
EUREKA – 1100' 21
On request
CASSODAY 239
WILSON – 1410' 29 S
NAS HUTCHINSON – 1582' 70H L S – 3231142 741
FRASIER – 1300' 25 S
RIVERSIDE – 1310' 26 S
STAFFORD 26 S
CULVER – 1320' 15 H
EL DORADO – 1400' 25 S
UNIVERSITY – 1350' 27 S
PRATT AAF 80 H
CANNON BALL
RAWDON – 1396' 26 S
HILLTOP – 1260' 20 S
KEN MAR 23 S
BEECH – 1378' 46H
ARTHER – 1290' 26 S
GIRARD
WICHITA 332
CESSNA AIRCRAFT – 1369' 53 S
PRATT – 1916' 25 S
WALTERS – 1000' 26
WICHITA – 1373' 75 H L S – 2781118 7 126 18'
KINGMAN – 1600' 26 S
DERBY – 1305' 24 S
MEDICINE LODGE 33 S
WINFIELD – 1200' 22 S
TULSA 32
AMARILLO 30
WELLINGTON – 1290' 23 S
OXFORD 27
STRICKLAND – 1310' 26 S
STROTHER – 1150' 58H
CALDWELL 21 S
HAIR 17 S
SOUTH – 1230' 40H
ANTHONY – 1339' 48 L S
KIOWA FLY SER
KANS
OKLA
BARTLESVILLE – 720' 34 S
ANTHONY 382
On request
BLACKWELL – 1000' 32L S
ARKANSAS CITY – 1067' 28 S
GREAT SALT PLAINS BOMBING RANGE AAF – 1200' 55 H L
NEWKIRK SKYPARK – 40' 32
WHITE BROS 25 S
PAWHUSKA 27 S
KITTENBRINK 23 S
ALVA
NORTH – 1265' 26 S
PHILLIPS – 750' 32H L S – 278
PONCA CITY – 998' 36H L S
JIMMIE RAY – 1200' 26S
PONCA CITY 368 1116 L
On request
TONKAWA – 1000' 25 S
ENID AAF 209
TULSA NORTH – 700' 25 S
STILLWATER NO 1 – 985' 50 H L
ENID AAF – 1287' 56H L S – 396(126 181
TULSA – 665' 71H L S – 2781118 5 126 18'
WOODRING – 1159' 65H S
PERRY – 1008' 52H
UNIVERSITY 26
CUSHING – 913' 52H L S
WATONGA – 1460' 16 S
GUTHRIE – 1052' 26L S
KINGFISHER 24 S
STILLWATER NO 2 – 980' 29 S
SAPULPA
BROWN – 735' 31 S
KELL-AIR – 1400' 24 S
KANSAS CITY FORT WORTH
CENTRAL – 1211' 24 S
STROUD – 883' 27 L
COMMERCIAL – 700' 29 S
ABILENE 47
FORT WORTH 48
TO NEWALLA
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS INDICATE 8 MILE BOUNDARIES.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

TULSA 32


TOPEKA AAF 269
TOPEKA AAF – 1078'
65 H L S–206(126.18)
LEBO 311
LEBO – 1160'
33 L
OTTAWA
CENTROPOLIS
GREEN
PAOLA
GAULT
NO. 7
NO. 2
NO. 9
NO. 4
HALL'S – 1000'
16 S
EUDORA
ST. JOSEPH 341
KANSAS CITY 359
NAS. OLATHE 420
NAS. OLATHE – 1085'
53 H L S–201(142.74)
DES MOINES 16
ONG – 1050'
24 S
SEDALIA AAF 368
SEDALIA – 820'
30 S
KANSAS CITY – GRANDVIEW – 1072'
55 H S
WARRENSBURG – 860'
22 S
SEDALIA AAF – 834'
72 H L S–396(126.18)
WRIGHT – 880'
25 S
HARRISONVILLE – 910'
20 S
HUSTON – 932'
25 S
CLINTON – 800'
32 S
CONARD – 954'
24 S
LLOYD – 960'
29 S
FORT SCOTT – 900'
26 S
IOLA – 1020'
48 S
CHANUTE – 980'
22 H L S
CHANUTE 227
ATKINSON – 948'
40 H S
NEVADA – 850'
40 S
BOLIVAR – 1100'
25 S
SPRINGFIELD 254 (116.1)
JOPLIN 400 (116.1)
INDEPENDENCE NO. 9 – 870'
40 H
INDEPENDENCE – 847'
22 S
PARSONS – 936'
22 S
INDEPENDENCE AAF – 820'
55 H S–272(126.18)
COFFEYVILLE 382
On request
JAMESON – 870'
26
QUEEN CITY – 1367'
38 H S
INDEPENDENCE NO. 3 – 920'
42 H
CARTHAGE – 1007'
23 S
MC FARLAND
21 S
JOPLIN – 981'
43 H L S
EDGEWOOD
JENSEN
32 S
COFFEYVILLE
59 H
DIAMOND
19 S
COFFEYVILLE – 880'
26 H L S
MIAMI COM.
MIAMI – 800'
33 H S
SPRINGFIELD-GREENE CO. – 1269'
56 H L S
TOPPER
24 S
NOWATA
20 S
NEOSHO COM. – 1140'
26 S
FERGUSON 790
36
CABSVILLE – 1375'
24 S
WILL ROGERS – 649'
29 L S
NEOSHO MUN. – 1215'
26 L S
HARRISON – 1050'
32 S
MONKEY IS.
26 S
JOHN BROWN UNIV. – 1183'
27 S
SPRINGDALE – 1200'
19 S
TULSA 245 (116.1)
CLAREMORE
VERDIGRIS RIVER
LONG
TULSA – 665'
71 H L S–278(126.18,113.5)
TAHLEQUAH – 1050'
22 S
FAYETTEVILLE – 1251'
38 S
HARVEY YOUNG – 700'
26 S
HATBOX – MUSKOGEE – 615'
39 H L S
STILWELL – 1125'
17 S
SHREVEPORT 50
KANS.
MO.
OKLA.
ARK.
MO.
ARK.
ST. LOUIS
KANSAS CITY
ST. LOUIS
MEMPHIS
TO LITTLE ROCK
TO TEXARKANA
LITTLE ROCK
RED 53
RED 11
BLUE 13
BLUE 22
BLUE 34
AMBER 1
WICHITA 31
10 WICHITA 47
OLF'S TO NAS. OLATHE
+ NO. 2. . . . 16 H
+ NO. 4. . . . 22 H
+ NO. 7. . . . 23 H
+ NO. 9. . . . 23 H
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
(R): EXTREMELY HAZARDOUS
(Q): USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, SHOWN NO CLASS IN AIRPORT SYM.
SCALE OF MILES
10 0 10 20 30

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE	227 (CZ)	SBRAZ-DT,304°,2.5	(4)
COFFEYVILLE	382 (KV	MHT	(4)
DE SOTO FM	(- - -)	FM; 224°, 19.6	Kansas City, Mo.
INDEPENDENCE AAP	272 (126.18)	CA	(3); 126.18 (8-20)
LEBO (Int)	311 (LN)	BMLZ-DT, 336°, 0	(4)
OLATHE (Navy)	420 (NUU)	BMRLZ	
Olathe NAS	201 (142.74)	CN;352°, 2.9	(3); 142.74 (8-18)(GCA)
PAOLA FM,(Navy)	(. - - -)	FM; 172°, 12	Olathe
TOPEKA (Army)	269 (DTO)	BMRAZ	(4)
Topeka AAP	206 (116.1) (126.18)	CA;320,3.4	(3); 116.1,126.18
MISSOURI			
JOPLIN	400(JH)(116.1)	BMRLZ-VDT,172°,6.2	(4); 116.1
SEDALIA(Knobnoster)(Army)	368 (DSM)	BMRLZ	
Sedalia AAF	396 (126.18)	CA(ILS);220°, 3	(4); 126.18
SPRINGFIELD (Greene Co.)	254(SX)(116.1)	SBRAZ-VDT,134°,4.3	(4); 116.1
OKLAHOMA			
TULSA	245(TS)(116.1)	SBRAZ-VDT	(4); 116.1
Tulsa Airport	278 (126.18) (118.5)	AC; 225°, 1	(4);142.74,131.9,118.5,126.18
VERDIGRIS RIVER FM	(-)	FM;54°,9.6	Tulsa

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SEDALIA AAF, MO.	110.3	335	31° mag.	IM (.09)	MM ····· (1.18)	OM — — (4.73)
					MKR	ONK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Berryville (NC)	1.3 WNW;RR E	1150	13	Trees S.Cattle on fld.
Fayetteville	3.8 S;RR W	1251	38 S6	73 oct.
Harrison	4.1 NW;RR S	1050	32 S1	80 oct.
Springdale	0.8 SSE;hwy W	1200	19 S4	80 oct.Pole lines NW,NE.

KANSAS

Atkinson (Pittsburg)	2.5 NW;RR W	948	40h S6	80 oct. Flares on req.
Chanute	2 WSW;hwy NW	980	22h R1 L4 S6	80,91 oct.
Coffeyville	5 NNE	743	59h	
" mun.	2 NW;riv E	880	26h R1 L3 S6	73,90 oct.Poles NW;hi-line SW.
Conard (Ottawa)	3.8 NNE;RR S	954	24 S1	80 oct.Pole line N;hedge S.
Edgewood (Coffeyville)	2.5 WNW;RR E	745	25 S1	80 oct.Pole line E,S.
Ferguson Flying Field (Coffeyville)	5 E;RR NW	790	36	Poles S.
Fort Scott	4.5 SW;hwy S	900	28 S2	80 oct.
Gardner (NC)	1.4 WSW;hwy S	1070	39	
Gault (Wellsville)	0.8 ESE;RR N	1020	20 S1	80 oct.Trees E
Girard	1.7 WNW;RR E	950	14	Trees E.
Hall's (Olathe)	2.6 SSE;RR W	1000	16 S2	73 oct.Cattle on fld.Pole line N.
Independence	5 N;hwy W	847	22 S4	73,91 oct.Pole line W.
(A) " AAF (A)	5.5 SW;hwy W	820	55h R1 S1	91,100 oct.
" #3	24 ESE	920	42h	
" #9	12.5 NE	870	40h	
(P) Iola	3.2 SSE;rd N	1020	48 S6	73,80 oct.
★ Lebo Int,39,AQ-KC	4 ENE;RR N	1160	33 R1 L3	
Lloyd (Ft. Scott)	3.8 SSW;RR SE	960	29 S2	80 oct.Pole line NE.
Mader (Garnett)(NC)	2 WNW;hwy S	1060	26	
(N) Olathe NAS (N)	5.2 SW;RR W	1085	53h R2 L5 S6	100 oct. NATS
(N) " OLP #2 (N)	5 SE	1090	16h	INACTIVE.4 W of Stanley.
(N) " OLP #4 (N)	10 S	1090	22h	1.3 SE of Springhill.INACTIVE.
(N) " OLP #7 (N)	16 SSW	940	23h	4.3 W of Hillsdale.INACTIVE.
(N) " OLP #9 (N)	11 SE	1070	23h	1 N of Stillwell.INACTIVE.
Ottawa	5.3 S;RR W	975	32	

KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Parsons	2 NW;RR S	936	22 S2	80 oct.Soft in wet weather.
(A) Topeka AAF (A)	6 S;RR W	1078	65h R2 L5 S6	73,91,100 Oct.JP-1. No sto.

MISSOURI

Bolivar	1.8 WSW;hwy N	1100	25 S2	80 oct.Poles N.
Branson (NC)	4 W;hwy W	1069	21	Trees SW.
Carthage	2 S;hwy E	1007	23 S4	80 oct.Pole line W,SW.
Cassville	3.9 S;hwy E	1375	24 S2	80 oct.Trees SW.
Clinton	2 NE;RR SE	800	37 S4	80 oct.Poles SW,S,E,N.
Diamond	2.1 SSW;RR S	1150	19 S2	80 oct.Pole line N,NE,SE.
(P) Grandview (Kansas City)	16.4 S:RR E	1072	55h L5 S2	80,91 oct.Fld lghts prior req.
(P) GREENE CO. (Springfield)	5.5 WNW;RR NE	1269	56h R1 L5 S5	80,91,100 oct. JP-1
Harrisonville	2.1 W;RR N,S	910	20 S1	73 oct. Fld rough.
Huston (Windsor)	4.3 E;hwy N	932	25 S1	80 oct.
JOPLIN	5 NNE:RR N	981	43h R1 L4 S4	80,91 oct.
McFarland (Springfield)	4 SSE;RR S	1310	21 S4	73,80 oct.
Neosho com.	4.8 NNW;hwy W	1140	26 S1	80 oct.Poles SW.
" mun.	2.8 SW:hwy E	1215	26 L3 S2	80 oct.Poles N,antenna E.
(P) Nevada	3 NE;hwy N	850	40 S4	73 oct.Pole line SW,W.
Ong (Kansas City)	9 SE;hwy NE	1050	24 S6	73,80 oct.Pole line N,W.
Queen City (Springfield)	2.1 E;hwy W	1367	38h L3 S4	73-91 oct.Lgts prior req.
Sedalia	6.3 NW;RR S	820	30 S6	80 oct.Poles S.
(A) " AAF (A) (Knobnoster)	2.8 S;hwy N	834	72h R3 L5 S6	73,91,100 oct.
Warrensburg	7.3 SSW;hwy E	860	22 S6	80 oct.
Wright (Garden City)	1.4 NNW hwy SW	880	25 S1	80 oct.Pole line S.
Butler	1.5 N		25 S2	80 oct. Data unverified.

OKLAHOMA

Harvey Young (Tulsa)	8.8 E;hwy N	700	26 S6	80 oct.
Hatbox (Muskogee)	2.7W;fork RRs	615	39h L3 S6	73,80 oct.All lgts prior req.
Jameson (Picher)	4.5 W	870	26	
Jensen (South Coffeyville)	0.5 W;RR S,E	735	32 S4	80 oct.Pole line SE.
John Brown Univ. (Mosley)	3.6 ESE;hwy S	1183	27 S4	80 oct.
Long (Pryor)	2 NNE;RR W	650	16 S2	80 oct.Pole line SW.
Miami	2.2 NNW;RR E	800	33h S1	80,91 oct.
" Commercial	1.7 WSW;RR E	800	20 S1	80 oct.
Monkey Island (Afton)	7.8 SE;RR NW	750	26 S1	80 oct. Pole line W.
Nowata	1.6 NNE;RR W	600	20 S1	80 oct.
Stillwell	1.4 N;RR W	1125	17 S2	80 oct.
Tahlequah	4.3 N;rd E	1050	22 S4	80 oct.
Topper (Vinta)	3.9 SW;RR ESE	800	24 S1	73 oct.
(A,N) TULSA AIRPORT	6.2 NE; RR S	665	71h R2 L5 S6	80-100 oct.JP-1. NATS,NAFC.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (see page 14)(NC)-Not charted.

RADIO

ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED. HRS. OF OPER., REMARKS
WALNUT RIDGE	362 (DWR)	MRLWZ,174°,5	
MISSOURI			
COLUMBIA	379 (CA)	SBRAZ-DT,89°,3.9	(4)
NEW FLORENCE (Int.)	385 (ST)	MHT	(4)
ST. LOUIS	209 (LS)	SBRAZ-DTX	(4)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
VICHY	344(OM)(116.1)	BMRLZ-VDT,310°, 2.7	(4), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT - CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Batesville(Desha)	1 SE, hwy E	400	20 S1	73 oct. Pole line NE.
Biggers (NC)	2 ESE,RR NW	290	45	
Fleeman(Manila)	0.8 S,RR N	240	32 S2	80 oct. Po. line N,NE.
John's Air Park (Flippin)	0.3 NNW,RR S	620	11 S1	80 oct. Trees N.
(P) Jonesboro	3.5 ESE;RR N,SW	264	44h S6	80,91 oct. Use rnwys
(A) Manila #2 (Blytheville)(A)	13.5 W,lake E	240	75	INACTIVE.
Milltown(Newport)	13 NE	244	45h	
Walcott #3 (Walnut Ridge)	14 ESE	285	45h	1.5 W of Walcott
Walnut Ridge	4 NE,RR SE	275	50h	

ILLINOIS

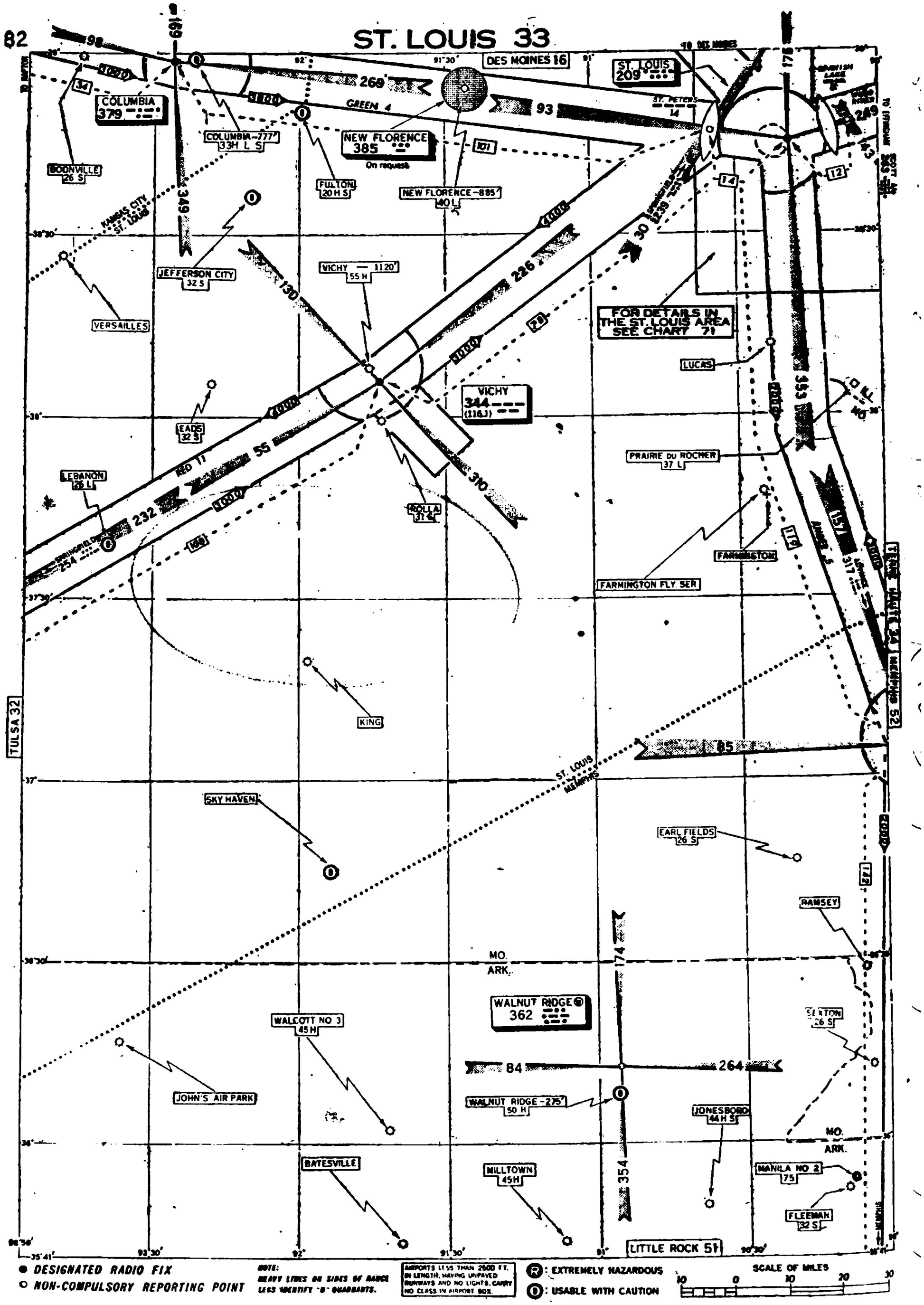
* Prairie du Rocher Int,55, NO-LS	0.5 S,RR NE	390	37 L3	Trees S, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MISSOURI

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boonville	1.5 NNW,riv S	602	16 S4	80 oct. Obsts sur fld.
Columbia	2.4 NW,hwy S	777	33h R1 L3 S5	80, 91 oct.
Eads (Iberia)	1.1 W, hwy NE	960	32 S2	80, 91 oct.
Farmington	1 ESE,hwy N,E		35 S6	80 oct. Data not verif.
Farmington Flying Service.	0.8 NNE,hwy S	920	17 S4	73 oct. Poles NW.
Fields (Poplar Bluff)	3.8 ENE,hwy S	325	26 S2	73 oct. Pwr line S.
Fulton	3 WSW,hwy SE	875	20h S2	80 oct.
Jefferson City	2 N, hwy S	550	32 S6	80 oct. No sto.
Kennett (NC)	1.3 E,RR W	260	26	30' poles N.
King (Houston)	0.8 WNW,hwy ESE	1180	15 S1	80 oct. Poles S
* Lebanon Int,54B, AQ-LS	2.5 SSE,hwy E	1380	26 L3	
Lucas (Festus)	1.7 S,RR W	425	16 S2	73 oct.
Mel Adkins (Gravois Mills)(NC)	4.2 SSE,hwy W	950	19	
* New Florence Int, 17, KC-LS	1 SSE,hwy N	885	40 R1 L3	
Ramsey (Campbell)	1.6 SW,RR NW	295	14 S2	Ltd 73 oct. Trees NNE
Rolla	3.5 NE,rd S	1201	31 S6	80,91 oct.
Sexton (Kennett)	2.8 SW,hwy E	263	26 S2	80 oct.
Sky Haven (Warrensburg)	7.3 SSW,hwy E	860	22 S6	80 oct.
Versailles	1.7 ENE,RR N	1050	20 S2	80 oct. Pwrline N,NE, NW.
Vichy	1.5 NNW,hwy SW	1120	55h R1	

ST. LOUIS 33



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

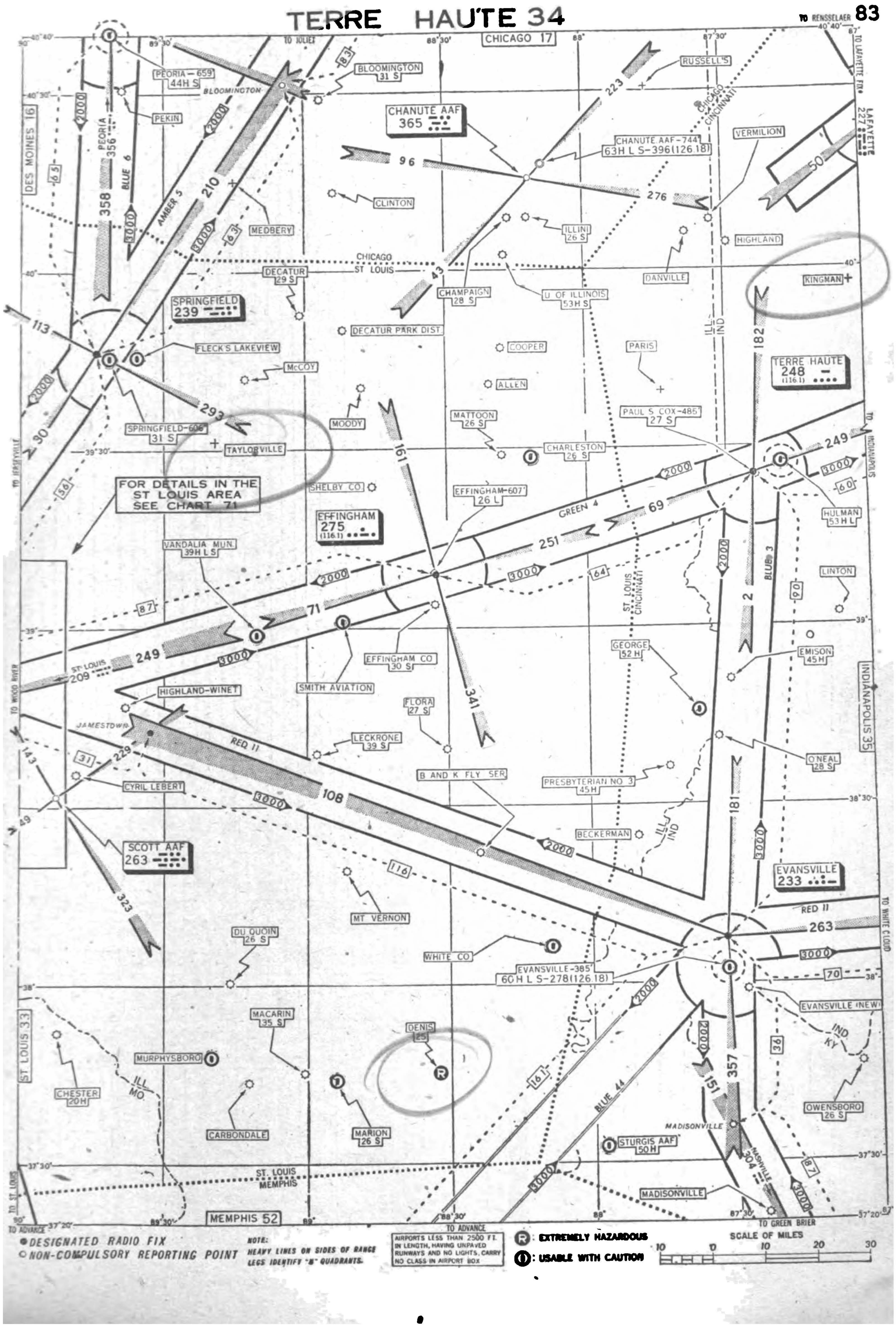
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "D" QUADRANTS.

AIRPORTS LESS THAN 2600 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

(R): EXTREMELY HAZARDOUS
(D): USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

TERRE HAUTE 34



RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE (Rantoul)(Army)	365 (DNU)	SBMRAZ	(3), 126.18
Chanute Field	396 (126.18)	CA, 43°, 3.3	(3), 126.18
EFFINGHAM	275 (EF)(116.1)	BMRLZ-VDT,341°,0- Intermediate	(4), 116.1
SCOTT (Belleville)(Army)	263 (DCD)	SBMRAPZ-DT,49°,1.8	(4)
SPRINGFIELD	239 (ZD)	SBMRAZ-DT,113°,2.3	(4)
		INDIANA	
EVANSVILLE	233 (EV)	SBRAZ-DT	(4)
Evansville Airport (old)	278 (126.18)	C, 177°, 5.5	(4): 116.1, 140.1, 126.18
TERRE HAUTE	248 (TH)(116.1)	BMRLZ-VDT,125°,0- Paul Cox	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Arcola)	2 W,RR N,E	665	20 S6	80 oct. Pole line N, E.
B & K (Fairfield)	1.4 WSW,RR S	500	21 S2	80 oct. Pole line S.
Beckerman (Mt.Carmel)	4 W,RR S	424	23 S1	80 oct. Pole line N.
(P) Bloomington	3 E,RR N	875	31 S6	80 oct. Pole line N.
Carbondale	0.1 E,lake 2 E	450	20 S4	80 oct. No sto.
Champaign	2 NNW,RR SW	753	28 L S4	73 oct. Range lgts. Appchs blocked.
(A) Chanute (Rantoul)(A)	1 SE,RR W	744	63h R2 L5	73, 91, 100 oct. JP-1. Pole N.
Charleston	1.3 SW,hwy E	690	26 S6	80 oct. Use marked areas.
Clinton Flying Club	5.5 NE	720	13	
Cooper (Tuscola)	1.6 SW,RR E	650	24 S2	80 oct. Poles NW, SE, NE, E.
Cyril Lebert(Lebanon)	0.5 SE,hwy N	440	22 S2	80 oct. Poles N, W, S.
Danville	2.4 SSW,hwy W	640	24 S4	80 oct. Appchs blocked by poles.
Decatur	4 NW,RR S	678	29 S6	80 oct.
Decatur Park District	4 E,RR,hwy S	679	16 S1	80 oct. Pole line N,SW,NW,NE.
Denis (Muddy)	Adj E	400	27 S1	80 oct. Data unverified.
Du Quoin	1.8 W,hwy S	454	26 S2	73 oct. 25' poles S.
Effingham Co. Memorial	3.6 S,hwy W	585	30 S2	80 oct.
* Effingham Int,10,LS-ID	2.5 N,RR E	607	26 R1 L3 S1	73 oct. on req.
Fleck's Lakeview (Rochester)	2.8 W,lake W	580	21 S6	80 oct. No sto. Poles W.
Flora	1.1 WSW,RR N	490	27 S1	80 oct. Trees, poles N.
George (Lawrenceville)	4.5 NE,RR S	428	52h	
Highland-Winet(Highland)	3.6 NE,RR S	535	24	Pole line S.
Illini (Urbana)	2 NNE,hwy SE	740	26 S6	80 oct. Trees E.
Leckrone (Salem)	1.9 NW,hwy S	545	39 S6	80,91 oct. Use strips only.
McCoy (Blue Mound)	5 W	660	16 S2	No fuel.
Macarin (Marion)	4.6 WNW,hwy W	470	35 S6	80, 91 oct.
Marion	1.8 ESE,RR S	430	26 S6	73 oct.
Mattoon	4 E,RR N	720	26 S4	80 oct. Poles W.
Medbery (Armington)	1 NE	650	26	Data not verified.
Moody (Dalton City)	2.2 S,hwy W	680	19 S2	80 oct. Trees E.
Murphysboro	3 N,riv SE		20 S1	80 oct. Data not verified.
Paris	4 NNW		27 S1	Fuel. Data not verified.
Pekin	4 S,bet RRs	505	24 S2	80 oct. Pole line W,N, E.
PEORIA	4.8 WSW,rd E	659	44h R1 L1	80,91 oct. Trees W,bldgs NE.
Presbyterian Church No. 3 (Lawrenceville)	4 WNW,hwy E	430	45h	
Russell's (Hoopeston)	6.5 WNW,RR S		13	PRIVATE. Data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Shelby County (Shelbyville)	1.9 ESE,RR N	677	21 S1	80 oct.
Smith Aviation (St.Elmo)	1.3 SW,RR NW	647	20 L1 S2	80 oct. Poles N, NE.
(P) Springfield	3.5 SW,bet RRs	606	31 R1 S6	80,91 oct. Use strips only.
(P) University of Illinois (Champaign)	5.5 SSW,RR E	752	53h S4	80, 91 oct.
Vandalia	4.4 NW	532	39h L2 S2	80 oct.
Vermilion (Danville)	4 E,hwy S	650	21 S2	80 oct. 30' poles S.
White County (Carmi)	1.1 NE, RR S	460	17 S1	80 oct.
Mount Vernon	2.5 ENE,RR S	465	23 S6	80 oct.
Taylorville	1 SW		26 S1	80 oct. Data not verified.
		INDIANA		
Emison (Oaktown)	3.6 WSW	425	45h	
Evansville (new)	5 E, RR W	388	18 S1	80 oct.
EVANSVILLE (old)	5 NE,bet RRs	385	60h R2 L5 S4	80, 91 oct. Twr W.
Highland (Perrysville)	2.8 WNW,riv E	585	23 S2	Ltd 73 oct.
(P) HULMAN (Terre Haute)	5 ESE,RR N	585	53h L5	Fld lgts prior req.
Kingman Flying Service (Kingman)	0.5 E,hwy N	700	26	
Linton	3.3 E,RR S	500	20 S1	Ltd 80 oct. Pole line N
O'Neal (Vincennes)	1.5 WNW,RR NE	415	28 S6	73,80 oct. NNW approach blocked,
Paul S. Cox (Terre Haute)	3.2 S,riv W	485	27 R1 S4	80, 91 oct. Stacks NE.
		KENTUCKY		
Madisonville	6 ENE,hwy SE	420	24 S4	80 oct. Use strips only.
Owensboro	2.5 ENE,RR NW	484	26 S6	73, 91 oct. No sto.
(A) Sturgis AAF (A)	1.5 ESE,hwy SW	371	50h	INACTIVE.
		MISSOURI		
Chester (McBride)	3.8 NW,riv N	372	20h	Allway: 5388 x 4695'.

RADIO — INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADVANCE FM	(- - - -)	FM, 330°, 24	Indianapolis
CEDAR GROVE FM	(- - - -)	FM, 297°, 35	Cincinnati, Ohio
CLAYTON FM	(- - -)	FM, 250°, 11.2	Indianapolis
FREEMAN (Seymour)(Army)	203 (DSR)	MRLWZ	
Freeman Field	396 (126.18)	CA; 159°, 11.6	(3); 126.18 (7-23)
Freeman Field (H fac)	219 (DSR)	MH	Operates cont.
GREENCASTLE FM	(. . - - -)	FM, 250°, 27	Indianapolis
GREENFIELD FM	(-)	FM, 82°, 31	Indianapolis
INDIANAPOLIS	266 (ID)(116.1)	SBRAZ-VDT	(4); 116.1
Indianapolis Airport	278 (126.18)	AC (ILS); 82°, 3.3	(4); 131.9, 126.18
LAFAYETTE (Purdue University)	227 (LF)	BMRL-DT; 50°, 2.4	(4)
MILROY (Int)	347 (MV)	MHT	(4)
MORGANTOWN FM	(- -)	FM, 177°, 22	Indianapolis
KENTUCKY			
BOWMAN FIELD (Louisville)	278 (126.18,118.3)	AC	(4);116.1,131.9,126.18,118.3
EASTWOOD FM	(- -)	FM, 89°, 9.4	Louisville
GODMAN (Knoxville)(Army)	227 (DKX)	BMRLZ	
Godman Field	272 (126.18)	CA; 172°, 3.1	(3); 126.18 (4-24)
LOUISVILLE	359 (LV)	SBMRLZ-DTX	(4)
SHEPHERDSVILLE FM	(- - -)	FM, 180°, 18	Louisville
SULPHUR FM	(. . - - -)	FM, 227°, 70	Cincinnati, Ohio
UNION FM	(- - -)	FM, 227°, 24	Cincinnati, Ohio
WARSAW (Int)	212 (WR)	MHT	(4)
OHIO			
CINCINNATI (Lunken)	335 (CC)	SBRAZ-DT; 227°, 5.2	(4)
DAYTON	245 (DY)(116.1)	SBMLZ-VDT	(4); 116.1
Dayton Airport	278 (126.18,118.9)	AC (ILS); 90°, 3.3	(4); 131.9,126.18,118.9
FAIRFIELD FM (Army)	(- - -)	FM, 196°, 9.3	Patterson
LOVELAND FM	(-)	FM, 44°, 8.8	Cincinnati
LUNKEN AIRPORT(Cincinnati)	227 (126.18,118.7)	AC	(4); 116.1,131.9,126.18,118.7
PATTERSON (Fairfield)(Army)	379 (DPK)(116.1)	SBMRAFZ-VDT	(4); 116.1
Patterson Field	396 (126.18)	CA (ILS); 32°, 2.96	(4); 126.18 (GCA)
VERONA FM	(- - - -)	FM, 270°, 9.9	Dayton
WRIGHT FIELD (Dayton)	260 (126.1)	CA	3105,4495; 126.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in Kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
DAYTON, OHIO	110.3	335	55° Mag.	IM ·····(.05)	MM	OM	--(4.4)
				IMK	MMK	OMK	
INDIANAPOLIS, INDIANA	109.9		44° Mag.	IM ·····(.05)	MM ····(.89)	OM	--(4.3)
					MMK	OMK	
PATTERSON, OHIO	108.7	333.8	210° Mag.	IM (.09)	MM ····· (1.5)	OM	--(2.5)
					MMK	OMK	

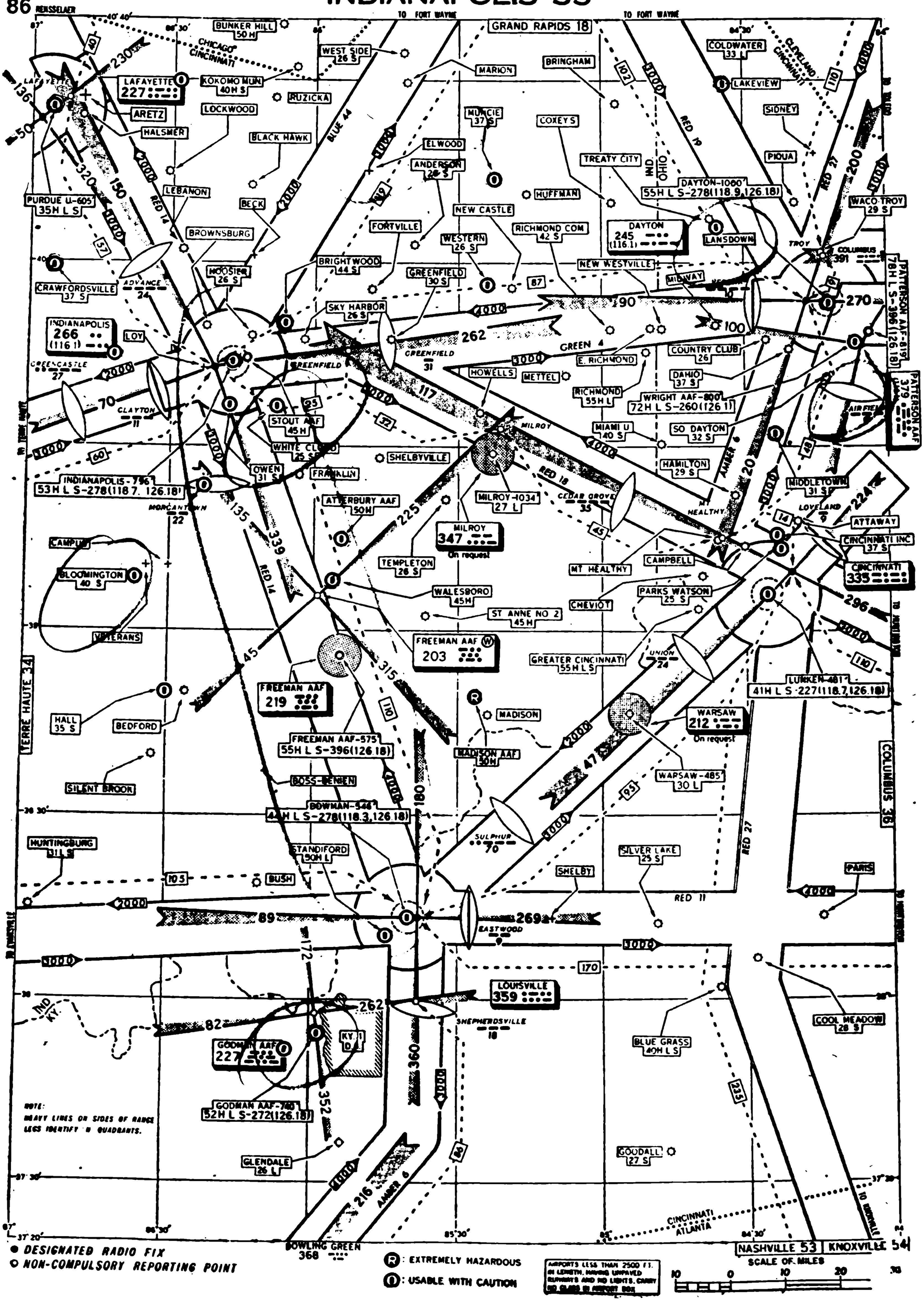
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — INDIANA

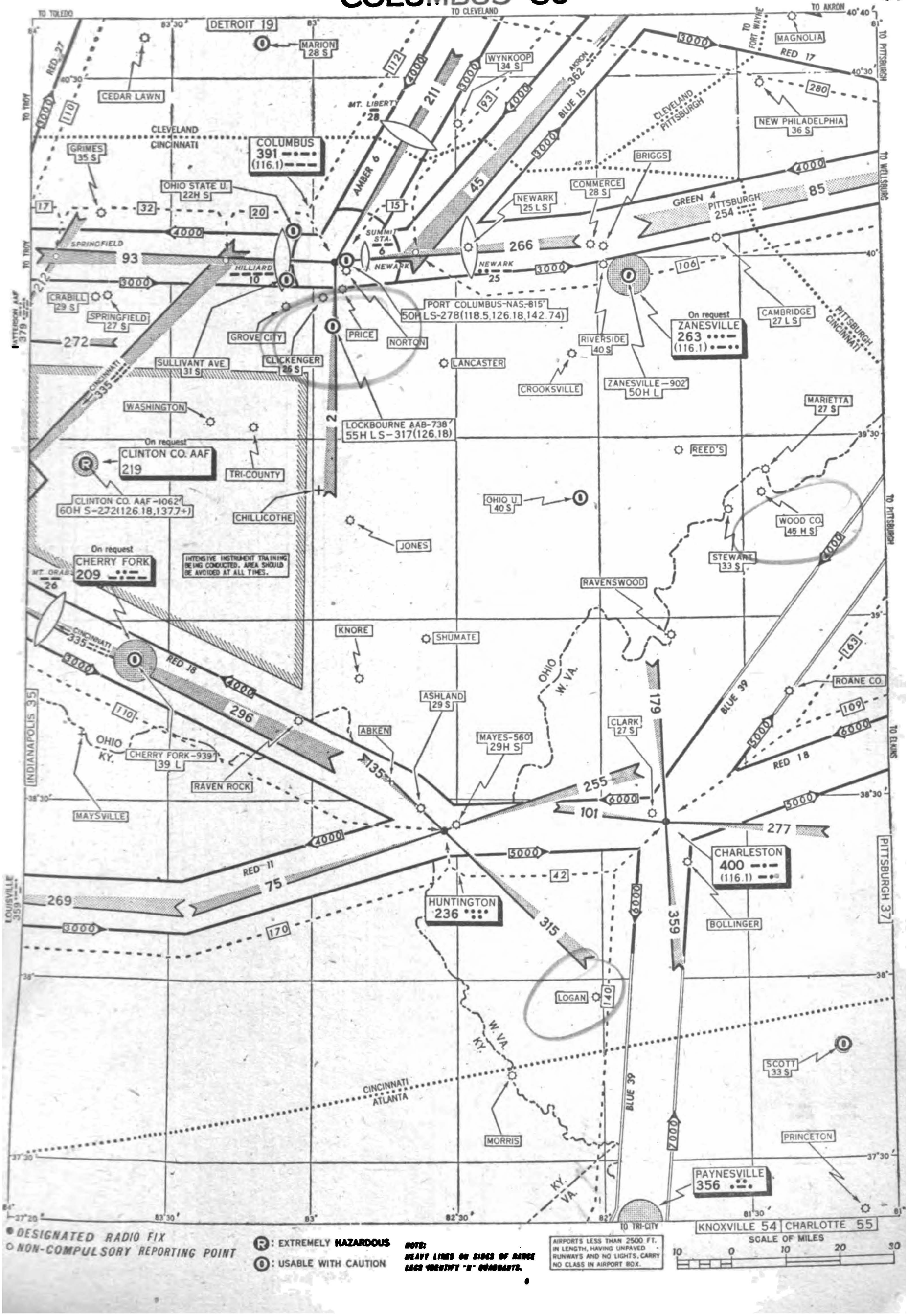
AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Anderson	3.5 SE;RR NE	875	26 S6	80 oct.No sto.Trees E.
Aretz (Lafayette)	4 NE	500	35 S6	80 oct. Data not verified.
(A) Atterbury AAF (Columbus)(A)	3.5 N;hwy S	651	50h	INACTIVE.
Beck (Zionsville)	5 NE;crk W		14 S2	80 oct.Pole line W. Data not verified.
Bedford	3.5 SE	682	19 S2	Ltd 73 oct.Rnwy data not verified.
Black Hawk (Sheridan)	5.3 N;hwy E	600	16 S1	Ltd 73 oct.
(P) Bloomington	5 WSW;RR SE	840	40 S2	73,80oct.Pole line S.Rnwy infr unverified,
Boss-Denien (Salem)	3 WNW;RR N		26 S6	80 oct.Pole line S.Data not verified.
Bringham (Portland)	1.5 E;RR E	1020	20	Poles S;120' tank SW.
Brightwood (Indianapolis)	3.7 NE;rd S		44 S4	80 oct.Data not verified.
Brownsburg	1.5 SSE;RR N	650	20 S1	73 oct.Pole line S.
Bunker Hill	1.8 W;RR N	798	50h	
Bush (Ramsey)	1.5 WSW;hwy N	580	10 S1	73 oct.
Campus (Bloomington)	1.5 ENE;RR S		25 S1	80 oct.Data not verified.
Coxey's (Winchester)	1 ESE;hwy N	1088	16 S4	80 oct.
Crawfordsville	4.5SSW;hwysE,W	850	37 S4	80 oct.No sto.Data unverified.
East Richmond (Richmond)	3.7 ESE;RR E	1090	20 S6	73 oct.
Fortville	2.8 E;rd N	740	15 S1	Ltd 73 oct. Trees SSW.
Franklin Flying Field	4 S;riv S	745	22 S2	80 oct. Trees S.
(A) Freeman (Seymour)(A)	2 SW;hwy N	575	55h R2 L5 S6	73,91,100oct. JP-1
French Lick Springs (NC)	1 SE;RR W	500	27h	
(P) Greenfield,Inc.	1.9 ENE;RR S	910	30 S2	80 oct.Pole line S.
Halemer (Lafayette)	3 ESE;RR S	595	20 S6	80 oct.Poles SW.
Hoosier (Indianapolis)	4 WNW	740	26 S5	80 oct.Pole line NE.
Howells (Rushville)	2 SE;hwy SW	985	21 S6	80,91 oct.
Huffman Air Svc.(Selma)	0.8 SE;RR N	1000	15 S4	73 oct.
(P) Huntingburg 19,L3-LV	3 S;RR E	500	31 L2 S2	73 oct.
(P) INDIANAPOLIS	8 SW;hwy N	796	53h R3 L6 S6	73,87,91,100oct.Exper lighting.
Kokomo,mun.	4.7 NE	835	40h L5 S2	80 oct.Pole line E.
Lebanon	1 S;RR N	925	13 S2	80 oct.Trees SW.
Lockwood (Frankfort)	2.5 S;RR W	764	20 S4	80 oct.Ditch W.
Loy (Plainfield)	0.5 NE;RR S		19 S6	73 oct.Data not verified.
Madison Commercial	2.2 N;RR W	960	24 S2	80 oct. Poles E.
(A) Madison AAP (A)	6 NNW;RR SW	850	50h	Closed to all acft.
Mettel (Connersville)	2.4 NNE;RR E	950	29 S1	80 oct.
Marion	3.8 SSW;hwy S	832	24 S4	73 oct.Poles E;hi-line N.
★ Milroy Int.5,CC-CQ	5.5 ESE	1034	27 R1 L3	
Muncie	3.5 N;RR SW	950	37 L4 S6	80,91 oct.Lgts prior req.
New Castle	3.2 E;RR S	1040	23 S6	80 oct. No sto.
New Castle Western(New Castle)	2 NW;lakes SE		26 S2	80 oct.Data not verified.
Owen (Mooresville)	4 E		31 S1	80 oct.Data not verified.
Purdue University(Lafayette)	2.5 W;RR N	605	35h R1 L3 S6	80 oct.Silo N;stack NE.
Richmond,com.	4 WSW;RR N	1075	42 L1 S2	80 oct.
(P) " mun.	6 SSE;RR W	1139	55h L5	Contact lgts on req.
Ruzicka (Kokomo)	2.5 S;RR E	800	22 S6	80 oct.Pole E;trees N.
St. Anne #2 (Seymour)	2.3 NNE	750	45h	
Shelbyville	3.1 S;hwy E	850	19	Pole line E.
Silent Brook (Orleans)	5 W;riv SW	650	20 S4	80 oct.Hi-line SW,W.
Sky Harbor (Indianapolis)	7 ENE;hwy S	730	26 S6	73,80 oct.Pole line E.
(A) Stout (Indianapolis)(A)	5.5 WSW	712	45h	INACTIVE.
Templeton (Greensburg)	3.5 WNW;RR N	915	26 S4	73,80oct.Pwr line S.No sto.
Walesboro (Seymour)	1 WSW Walesboro	616	45h	
West Side (Marion)	2.5 NW;hwy S	835	26 S1	73 oct.Pole line E.
White Cloud (Greenwood)	1.6 SW;hwy E	800	25 S4	Fuel.No sto.Data not verified.
Elwood	1.8 SSE;hwy NE	850	23 S4	80 oct. Data unverified.
Sky Haven (Bedford)	2 SSW;riv S	650	36h S4	80,91 oct.Pole line E,S.Rnwy data not verified
KENTUCKY				
Blue Grass (Lexington)	6 W;hwy N	978	40h L5 S1	80 oct.
(A) BOWMAN (LOUISVILLE)	5.5 ESE;hwy S	546	44h R2 L5 S6	73,91,100oct.ARMY INACTIVE.
Cool Meadow (Lexington)	4.9 NE;rd W	910	28 S6	73,80 oct.No sto.Pole line SW.
★ Glendale Int.75B,DL-LV	0.5 NE;RR NW	702	26 L3	
(A) Godman (Fort Knox)(A)	1 NW;RR E	740	52h R2 L5 S4	73,91,100 oct. No sto.
Goodall (Danville)	4.2 S;RR W,S	990	27 S6	80 oct.
(P) Greater Cincinnati(Covington)	8.2 W;riv NE	887	55h L5 S1	80,91oct.Svcg days only.Ctc lgts prior req.
Paris	1.2 NNE	635	20 S1	80 oct. Rwylnes NE,SE.
Shelby (Shelbyville)	2.5 ENE;hwy S	850	20 S2	80 oct.Data not verified.
Silver Lake (Frankfort)	3.2 E;hwy N	750	25 S2	80 oct.
Standiford (Louisville)	4.3 SSE;RR W	480	50h L5	
★ Warsaw Int,5A,LV-CV	0.5 SW;riv NW	485	30 R1 L3	
OHIO				
Attaway Air Ranch (Mason)	4.2 S;RR NW	850	23 S4	80 oct.No sto.Pole line E.
Campbell (Cincinnati)	6.2 NNW;RR E	820	24 S1	80 oct. Pole line WSW.
Cheviot (Cincinnati)	9 W	914	18 L1 S1	80 oct.
Cincinnati (Sharonville)	2 SE;hwy N	860	37 S6	80 oct.
★ Coldwater Int,4,BY-QD	2 NW,crk NW	898	33 L3	
Country Club (Johnsville)	2.9 N;RR NE	990	26	Poles N,S.
Dahio (Dayton)	6.5 W;hwy S	925	37 S6	80 oct.
DAYTON	10 N;hwy E	1000	55h R2 L5 S6	73,80,91,100 oct.
Hamilton	2.5 SE;RR SW	615	29 S6	90,91 oct.Poles S,SE;trees NW.
Happy Landings (Morrow)(NC)	2.4 ESE;RR S	880	28	Area SE unusable.
Harrison (NC)	2 ESE;RR SW	680	18	Pole line S.
Hightman (Lebanon)(NC)	3 E;RR W	880	16	Pole line W;trees W.E.
Lakeview (Montezuma)	1 SW;hwy W	835	24 S2	80 oct. Pole N.
(A) LUNKEN (Cincinnati)	4.3 SE;RR SW	481	41h R2 L5 S6	73,91,100oct.Ben ESE.
Miami University(Oxford)	2.2 WSW;RR W	1040	40 S6	80 oct.Poles N,NW.
Middletown	1.5 N;riv N	653	31 S4	80 oct.
Midway (Lewisburg)	3.4 WSW;RR E	1090	26 S4	80 oct. Trees W.
Mt. Healthy (Cincinnati)	9.5 NW;hwy E	870	22 S6	80 oct.Poles E;woods W.
New Westville (New Paris)	2.8 S;RR S	1180	21 S1	80 oct.Poles NW,E,SE.
Parks Watson(Cincinnati)	9 NE;RR E	865	25 S6	80 oct.
(A) Patterson (Fairfield)(A)	1.6 WSW	819	78h R3 L6 S4	73,100 oct.JP-1
Piqua	4 WNW;RR S	1000	19 S2	80 oct.Poles S,SE,SW.
Polk Grove(Vandalia)(NC)	3.6 W;riv W	975		UNUSABLE.
Sidney	1 W;RR S		25 S2	80 oct.Data not verified.
South Dayton (Dayton)	5 SSW;RR W	750	32 S6	80 oct.No sto.Hills S.
Treaty City (Greenville)	1.5 NNE;hwy W	1060	20 S4	80 oct.Pole line W.
Wscg-Troy (Troy)	1.8 SW;RR SE	870	29 S1	80 oct.
(A) Wright (Dayton)(A)	5 ENE;RR NW	800	72h R1 L5 S2	62,73,91,100oct.JP-1.CLOSED.
Lansdowne (Greenville)	2 ESE;RR N		19	Bldgs,hi-line N.Data unverified.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

INDIANAPOLIS 35



COLUMBUS 36


TO TOLEDO
TO CLEVELAND
TO AKRON
DETROIT 19
MARION 28 S
WYNKOOP 34 S
MAGNOLIA
TO FORT WAYNE
TO PITTSBURGH
RED 17
RED 27
CEDAR LAWN
MT. LIBERTY 28
CLEVELAND CINCINNATI
COLUMBUS 391 (116.1)
CLEVELAND PITTSBURGH
NEW PHILADELPHIA 36 S
GRIMES 35 S
BRIGGS
OHIO STATE U. 22H S
AMBER 6
BLUE 15
AKRON
362
211
112
93
45
280
106
COMMERCE 28 S
NEWARK 25 L S
GREEN 4
PITTSBURGH 254
85
TO WELLSBURG
SUMMIT STA.
SPRINGFIELD
HILLIARD 10
NEWARK 25
266
CRABILL 29 S
SPRINGFIELD 27 S
PORT COLUMBUS-NAS-815'
50H LS-278(118.5,126.18,142.74)
On request
ZANESVILLE 263 (116.1)
CAMBRIDGE 27 L S
PITTSBURGH CINCINNATI
GROVE CITY
PRICE
NORTON
RIVERSIDE 40 S
SULLIVANT AVE. 31 S
CLICKENGER 25 S
LANCASTER
CROOKSVILLE
ZANESVILLE—902' 50H L
WASHINGTON
LOCKBOURNE AAB-738'
55H LS-317(126.18)
MARIETTA 27 S
On request
CLINTON CO. AAF 219
REED'S
TRI-COUNTY
CLINTON CO. AAF-1062'
60H S-272(126.18,137.7+)
CHILLICOTHE
OHIO U. 40 S
WOOD CO. 45 H S
JONES
On request
CHERRY FORK 209
INTENSIVE INSTRUMENT TRAINING BEING CONDUCTED. AREA SHOULD BE AVOIDED AT ALL TIMES.
STEWART 33 S
RAVENSWOOD
KNORE
SHUMATE
ASHLAND 29 S
OHIO W. VA.
ROANE CO.
BLUE 39
163
179
109
ABKEN
MAYES-560' 29H S
CLARK 27 S
CHERRY FORK-939' 39 L
RAVEN ROCK
MAYSVILLE
INDIANAPOLIS 35
CINCINNATI 335
RED 18
296
135
255
101
277
CHARLESTON 400 (116.1)
RED 11
75
269
HUNTINGTON 236
315
359
BOLLINGER
LOGAN
140
W. VA. KY.
SCOTT 33 S
CINCINNATI ATLANTA
MORRIS
PRINCETON
PAYNESVILLE 356
KY. VA.
10 TRI-CITY
KNOXVILLE 54
CHARLOTTE 55
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

RADIO

OHIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHERRY FORK (Int.)	209 (UY)	MHT	(4)
CLINTON CO. (Wilmington)	272 (126.18) 137.7 (116.1)	CA(ILS)	(3); 126.18,137.7,116.1 (GCA)
[redacted]	219	K	0.2 mi. end Rnwy 22,(830-1630 Mon.-Fri.)
COLUMBUS (Port Columbus NAS)	391 (CO)(116.1)	SBRAZ-VDT,86°, 1.9	(4); 116.1
HILLIARD FM	(- - - -)	FM, 273°, 9.8	Columbus
LOCKBOURNE AAB(Columbus)	317 (126.18)	CA (ILS),309°,31.2	(3), 126.18
MT. LIBERTY FM	(-)	FM, 31°, 27.8	Columbus
MT. ORAB FM	(- -)	FM, 116°, 25.5	Cincinnati
NEWARK FM	(. . - -)	FM, 145°, 10.8	Columbus
PORT COLUMBUS NAS (Columbus)	278 (118.5) (126.18,142.74)	AC	(4), 131.9, 118.5, 126.18, 142.74
SUMMIT STATION LFM	(- -)	LFM, 86°, 5.6	Columbus
ZANESVILLE	263 (VL)(116.1)	MHVT	(4), 116.1
		WEST VIRGINIA	
CHARLESTON	400 (KN)(116.1)	SBMRAZ-VDT	(4), 116.1
HUNTINGTON	236 (HI)	BMRLZ-DT, 75°, 2.4	(4)
PAYNESVILLE	356 (IR)	H	Operated by PCA (6-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOCKBOURNE AAB, OHIO	109.9		3° Mag.	IM (.16)	MM ····· (.85)	OM -- (4.29)
					MMK	OMK
CLINTON CO. AAF, OHIO	108.3	332.6	320° Mag.	IM (.05)	MM	OM
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

KENTUCKY

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abken (Russell)	2.7 NW,riv N	555	26 S3	80 oct. Data not verified.
Ashland	1 E, RR SE	535	29 S4	80 oct.
Maysville	3.5 NW		26 S2	Fuel. Data not verified.
			OHIO	
Briggs (Zanesville)	6.4 NNE,RR W	780	18 S2	80 oct. Poles E.
Cambridge	2 N, RR W	800	27 L3 S2	73 oct.
Cedar Lawn (Kenton)	2.3 S, RR E	975	18 S2	80 oct. Poles E.
★ Cherry Fork Int,4,CC-WA	0.5 NNW	939	39 R1 L3	
Chillicothe Skypark	1.8 N,RR E	640	30 S4	80,91 oct. Data not verified.
Clickenger (Columbus)	6.2 SSE,RR E	748	26 S2	80 oct. Poles surround fld.
(A) Clinton County AAF (Wilmington)(A)	2 SE,hwy NE	1062	60h R3 L5 S1	73, 91, 100 oct. JP-1. No rng.
Commerce (Zanesville)	6.5 N,RR,riv E	800	28 S2	73, 80 oct.
Crabill (Springfield)	2.5 SE,RR E	1040	29 S6	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

OHIO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Crooksville	2.3 S,RR NW	760	22 S2	No fuel. Poles N
Grimes (Urbana)	1.5 N,RR W	1055	35 L4 S6	80 oct. Fld lgts prior req.
Grove City	1 S, RR W	860	21 S6	73,80 oct. No sto.Poles W.
Jones (Chillocothe)	7.2 SE,RR SW	720	20 S2	Ltd 80 oct.
Knore (Minford)	2 SE,RR W	670	20 S6	80 oct. No sto. Pwr line S.
Lancaster	2.5 E;RR N,SW	830	25 S4	80 oct. Poles E.
(A) Lockbourne AAB (Columbus)(A)	11.5 SSE,RR W	738	55h R3 L5 S5	73, 100 oct. JP-1. No range.
Magnolia	0.5 NW,RR SE	970	22 S1	80 oct. Trees W.
Marietta	1.8 ESE,riv S	615	27 S2	80 oct.
Marion	2.5 WNW,RR S	915	28 S2	80 oct.
Newark,2, CO-PG	3.5 SW,RR N	880	25 L3 S2	73 oct. 200' stacks S.
New Philadelphia	2.5 SE,RR SW	885	36 S6	80 oct. Poles N,E,W.
Norton (Columbus)	6.5 E,RR N	800	22 S6	80, 91 oct. Pole line N.
Ohio State University (Columbus)	8 NNW,riv E	900	22h S2	80, 91 oct.
Ohio Univ. (Athens)	1.5 E,RR S	640	40 S6	80 oct.
(N) Port Columbus - NAS (Columbus)	7 E, RR S	815	50h R2 L5 S6	80-100 oct. Poles NW.
Port Core (Rushsylvania) (NC)	1.6 SSW,RR NW	1275	14	Poles NNE; trees SSW.
Price (Columbus)	6 SE	760	22 S6	80 oct. Poles S, SE.
Raven Rock (Portsmouth)	8.5 WSW,riv S	538	24 L3 S6	80,91 oct. Lgtg fac not verified.
Reed's (Watertown)	4.9 W,hwy E,S	820	13 S1	80 oct. Pole line NE.
Riverside (Zanesville)	3.4 NNE,RR W	700	40 S4	80 oct. Hill, trees NNE,SSW.
Scioto Trail State Forest (Chillicothe)(NC)	8 SSE,RR NE	640	24	
Shumate (Jackson)	8 SSE,RR NE	720	20 S1	80 oct.
Springfield	4.2 ESE,RR N	1050	27 L4 S4	80 oct.No sto.Fld lgts prior req.
Sullivant Ave.(Columbus)	6 WSW,RR NW	860	31 S6	80,91 oct. Pole line S.
Tri-Co. (New Holland)	3 ESE,RR N	850	21 S1	80 oct.
Twin Cities (Gallipolis)	1.8 ENE,riv SE	563	30	Trees E. (NC)
Washington (Wash.C.H.)	4.5 ENE,RR S	910	22 S1	80 oct. Pole line S.
Wolfords (Amanda)(NC)	0.8 E, RR NW	960	13	
Woodsfield (NC)	1 W,hwy NE	1220	19	
(P) Wynkoop (Mt.Vernon)	1.4 SSW,RR NW	1050	34 S1	80,91 oct.Pole line E. RR E.
Zaleski St. Forest Svc.	1 SSW,RR NW	705	22	(NC)
(P) Zanesville	6.2 E,hwys N,S	902	50h R1 L5 S1	80 oct. prior req.
(P) Huntington(Chesapeake)	2 WSW, riv S	560	29h R1 S6	73, 80 oct
			WEST VIRGINIA	
Bollinger(Charleston)	4.5 SW,riv N	900	21 S4	80 oct.
Clark (Winfield)	5 N St.Albans	600	27 S6	73 oct. No sto. River E.
Morris (Williamson)	5 NNW,RR E	600	12 S1	80 oct. Pole line S.
Princeton	1.7 SW,hwy E	2450	20 S4	80 oct.
Ravenswood	0.6 NNW,RR W	600	23 S1	Ltd 80 oct. Obsts sur fld.
Roane Co. (Spencer)	1 SE,hwy NE	954	17 S1	80 oct.
(P) Scott (Mt.Hope)(Beckley)	2.6 N, RR E	2440	33 L1 S6	80, 91 oct. Trees N.
Stewart (Parkersburg)	2.3 NNW,riv W	602	33 S6	80 oct. Pole line SE.
(P) Wood Co. (Parkersburg)	7 NE, hwy E	835	45h L5 S6	80, 91, 100 oct.All lgts prior req.
Logan	7.2 NNW,riv E	630	15h S1	80 oct.Hill S,N.
⊕Kanawha Fly. School (Charleston)	Center of City	586	50 S6	80 oct.Boat,ramp,winch.

RADIO

PENNSYLVANIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALLEGHENY CO. ARPT (Pittsburgh)	278 (126.18	AC	(4);140.1,131.1,126.18
ALTOONA (Altoona-Blair Co.)	338(RF) (116.1)	SBMRAZ-VDT;203° 1.3	(4);116.1
CECIL FM	(- - -)	FM, 265°, 10.3	Pittsburgh
GREATER PITTSBURGH AIRPORT PITTSBURGH	396 (126.18	CA	(3);126.18
HOOKSTOWN FM	(- - - -)	FM,308°, 32	Pittsburgh
MT. PLEASANT FM	(- -)	FM,1240, 24.7	Pittsburgh
NEW ALEXANDRIA FM	(-)	FM, 850, 30	Pittsburgh
PITTSBURGH	254(PT) (116.1)	SBRAZ-VDT	(4);116.1
SUMMERHILL FM	(- - - -)	FM, 291° 22	Altoona
CECIL	219(C)	FMK,265°,10.3	Pittsburgh

VIRGINIA

FRONT ROYAL	362 (FZ)	SBMRAZ-DT	(4)
GORDONSVILLE (Int)	388 (GJ)	SBMRAZ-DT;135°,2.6	(4)
LYNCHBURG (Preston Glenn)	206 (LB)	SBRAZ-DT;165°,2.1	(4)

WEST VIRGINIA

	281(MK)(116.1)	SBMRAZ-VDT; 175°,2	(4);116.1
MARTINSBURG	209(MR) (116.1)	BMRLZ-VDT;35°,2.9	(4); 116.1
MORGANTOWN	269(MO)	BMRLZ-DT;173°,5.6	(4)

(Localizer and G.P. in mcs, Compass Locators in kcs)

INSTRUMENT LANDING SYSTEMS				MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOCATION	LOCALIZER	G.P.	APPR. BEAR.	IM	MM	OM
PITTSBURGH, PA.			95° Mag.		MMK 201----(.80)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MARYLAND

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Cumberland	2.5 S;riv N,S	780	58h L5 S1	80 oct. Mtns SW.
Mexico Farms(Cumberland)	3 S;RR E	630	36 S2	80 oct.Mtns E.

OHIO

Scott (Tiltonsville)(NC)	1.5 SSW;riv E	650	25	
Toronto	1.5 NW;riv E	1050	22	

PENNSYLVANIA

Allegheny Val'y(Tarentum)	3.2 W;RR W	1125	24	S4	80 oct.
Altoona(Duncansville)	1 SW;RR E	1050	36	S4	73 oct.
Altoona-Blair Co.24A-CO-PO	15 SSE	1395	44h	R1 L4 S2	80,91 oct.
Buckstown Int.12B,WA-CV	1 E;hwy S	2480	23	L3	
Connellsville	4 SSW;hwy E	1250	34h	S2	80 oct.
Cresson	1 NE;RR W	2240	25	S2	80 oct.Pole line S.
(A) Greater Pittsburgh (Pittsburgh)(A)	15 WNW;riv N	1145	55h	R1 L5 S4	91,100 oct.JP-1
Green County(Waynesburg)	2.7 E;RR NW	1100	32	S6	80 oct.
Hamilton (Indiana)	2.5 E;hwy S	1440	26	S6	80 oct.Pole line S.
Harrison City	1.1 NW;hwy S	1230	17		Poles NW.
Huntingdon	1 S;riv NE	620	20	S4	80 oct.Pole line W.
(P) Johnstown	4.7 E;hwy N	2282	45h		
Keystone (Ebensburg)	3 SW;RR NW	2100	23	S4	87 oct.Obst sur fld.
Latrobe	2.8 SSW;hwy N	1144	23h	S4	80 oct.
Leechburg	1.6 ESE;hwy W	960	30	S6	73 oct.Pole line N,NE.
Mayer (Pittsburgh)	10 WSW;RR S	770	16	S4	80 oct. Pole line S.
‡ Highland (Aspinwall)(NC)	0.7 S	721	52	S3	80 oct. Boat; ramp.
Highland(Pittsburgh)(NC)	5 NNE	721	66	S6	80 oct.Ramp;dock;crash boat

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted,

PENNSYLVANIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
New Alexandria	1.5 ENE;hwy N	1200	18 S4	80 oct. Pole line N.
PITTSBURGH-ALLEGHENY CO. (Pittsburgh)	5.3 S;RR NW	1251	57h R2 L6 S6	80-100 oct.No ctc lgts.Rdo rec req.
Pittsburgh-Bettis (Pittsburgh)	5 SSE	1250	25h S6	80,91 oct.
Pittsburgh-Greensburg (Greensburg)	2.3 SE;hwy N	1280	26 L3 S6	80 oct.Twr W.No bndry lgts.
Pitt-Wilkins(Pitcairn)	1 NNW	1200	17 S2	80 oct.
Salix	0.6 S;RR NW	2200	24 S4	80 oct.
Somerset	2NNE;RR SE	2200	27 S4	80 oct. Pole line W.
Stultz (Altoona)	10.7 NNE;RR N	970	35 S6	73,80oct.Pole line N,E,NE.
Vandergrift	2 WNW;RR E	1000	21 S2	73 oct. Pole line NW.
Buck's (Pittsburgh)(NC)	at riv inters.	715	70 S6	87 oct.Boat;beach;ramp;winch.
‡ Coraopolis (NC)	0.5 N	675	50 S1	80 oct. Boat; ramp.
‡ Dravosburg (Pittsburgh)	5 SE;jct of rivs	718	50 S2	80-100 oct.Ramp;float;boat.(NC)
‡ McKeesport (NC)	1.3 NW	718	40 S1	80 oct. Float; ramp

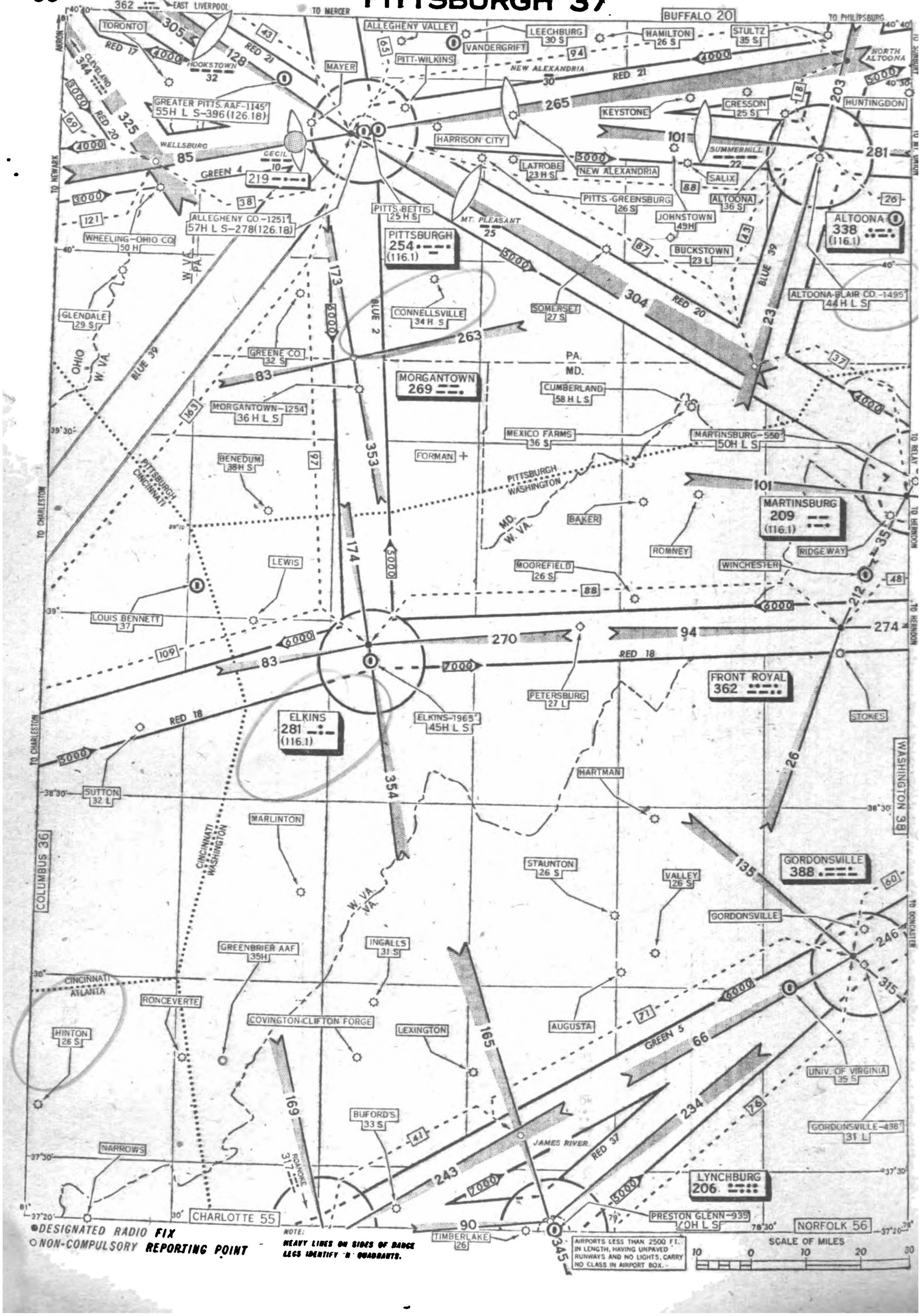
VIRGINIA

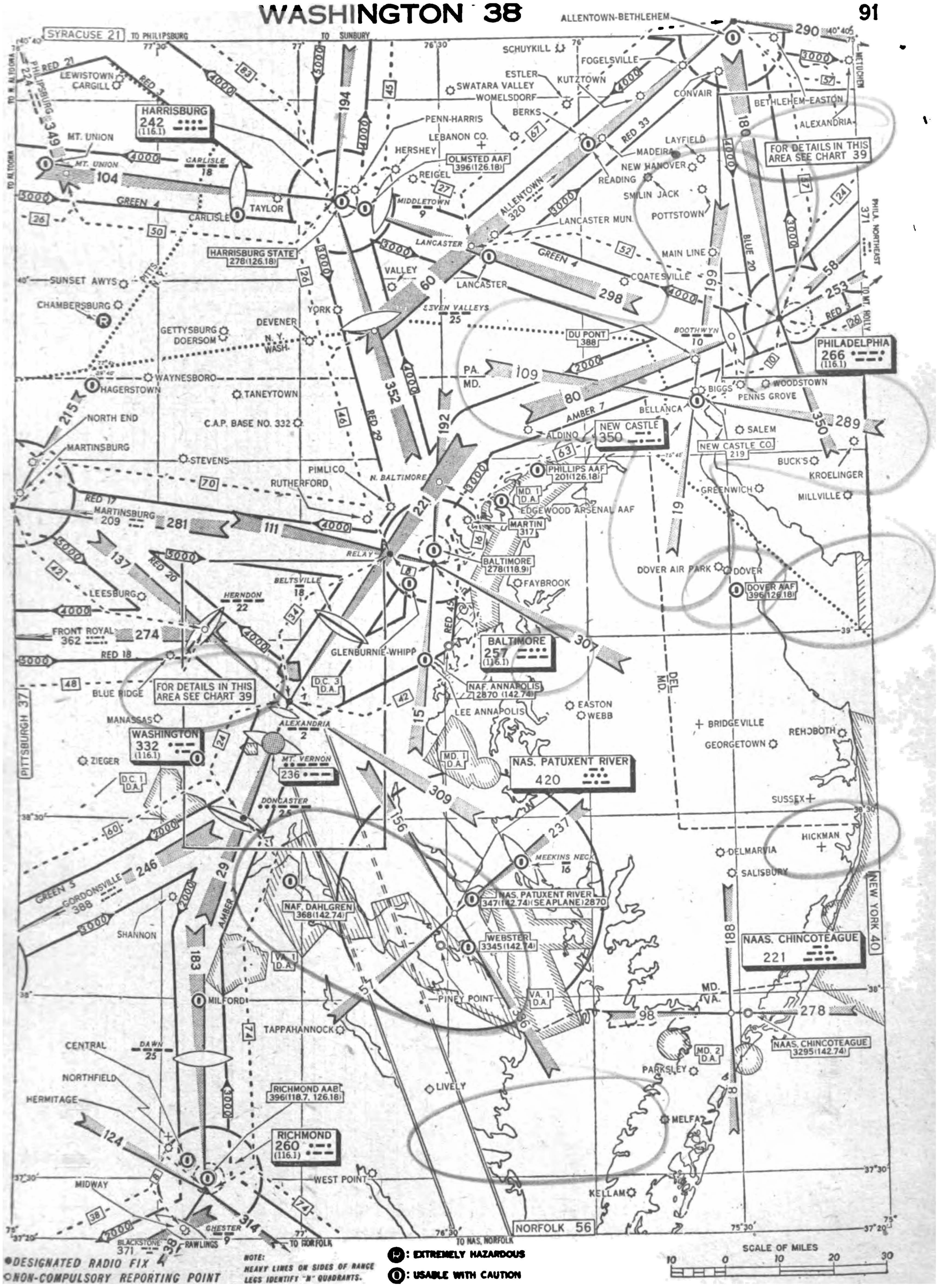
Augusta(Waynesboro)	6 WSW;riv SE	1420	24	S4	80 oct.Bad pole line SE.
Buford's (Montvale)	0.5 S;hwy N	1000	33	S6	80 oct. 100' hill E.
Covington-Clifton Forge	6.5 E;hwy S	1115	24	S4	80 oct.
Gordonsville	2.9 NE;RR S,SE	475	18	S6	80 oct. Trees NE,SW.
Int,51,NA-WA	5 SSE	438	31	R1 L3	Pole line SW.
Hartman(Harrisonburg)	1 NW	1350	22	S4	80 oct.
Ingalls (Hot Springs)	3 S;hwy W	3780	31	S2	80 oct. Closed winters.
Lexington	2.7 SW;hwy S	1200	17	S1	73 oct. Pole line NE,SW.
Narrows	1 E;RR S	1550	20	S2	Ltd 80 oct. Trees W.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h	R1 L5 S6	80,91 oct.
Staunton	4.4 NE;RR NW	1300	26	S6	80,91 oct.Pole line NNE.
Stokes (Front Royal)	2.5 W;riv E	735	19	S2	80 oct. Pole line S,E.
Timberlake (Lynchburg)	9.5 SW;RR N	950	26		
University of Virginia (Charlottesville)	5 ESE;riv E	300	35	S6	80 oct. Trees ESE.
Valley (Waynesboro)	1.7 NNE;RR E	1300	26	S2	80 oct. Pole line ENE,SSW
Winchester	3 SSE;hwy E,S	700	22	S6	80 oct.

WEST VIRGINIA

Baker Airpark(Burlington	0.5 NNE;hwy S	740	19	S4	80 oct.
(P) Benedum (Clarksburg)	6 E;hwy S	1170	38h	S6	80,91 oct.
(P) ELKINS	2.6 S;RR W	1965	45h	R1 L5 S4	80,91 oct. No sto.
Forman (Terra Alta)	1 N;hwy W	2750	18	S4	80 oct.No sto.Data unver.
Glendale	0.5 WSW;bet RR & river	640	29	S6	80 oct.Trees N,S;pole line S.
(A) Greenbrier AAF (White Sulphur Springs)(A)	2 SW	1795	35h		
Hinton	4.8 WSW;RR E	2600	26	S4	80 oct. Pole line NNW.
Hinton-Alderson(Pence Springs)(NC)	1 E;riv,RR S	1520	26		Hill W,E.
Lewis (Buckhannon)	2.4 W;hwy N	1435	18	S4	80 oct.No sto.Hills sur fld.
Louis Bennett(Weston)	3.2 N;RR E	996	37		Hill S;pole line WNW
Marlinton	1.5 NNE;RR SE	2475	21	S2	80 oct. Hill WNW
(P) Martinsburg	4 S;hwy W	550	50h	R1 L5 S6	80,91 oct.
Moorefield	0.8 NE;RR W	980	26	S4	80 oct. Trees WNW.
(P) Morgantown	2.2 ENE;hwy NW	1254	36h	R1 L3 S6	80 oct.
Petersburg Int.29,CC-WA	1.2 WSW;riv N	945	27	L2 S4	80 oct. No sto.
Ridgeway (Bunker Hill)	2.3 SSW;RR E	600	20	S6	80 oct.No sto,Pole line SSW.
Romney	2.1 NNE;riv W	750	16	S2	80 oct.Mts WNW,ESE,SSE.
Ronceverte	2 N;hwy SE	2175	18	S2	80 oct.
Sutton Int. 21, CC-WA	3.6 ENE;RR W	1264	32	L3	
(P) Wheeling Ohio Co.	7.5 NNE;riv W	1190	50h	L5	All lgts prior req.
Wheeling (NC)	Center of City	630	50	S1	87 oct. Boat. Bridge S.

PITTSBURGH 37




SYRACUSE 21
TO PHILIPSBURG
TO SUNBURY
ALLENTOWN-BETHLEHEM
SCHUYKILL
FOGELSVILLE
ESTLER
KUTZTOWN
SWATARA VALLEY
WOMELSDORF
BERKS
CONVAIR
BETHLEHEM-EASTON
ALEXANDRIA
METUCHEN
PENN-HARRIS
LEBANON CO.
HERSHEY
OLMSTED AAF
396(126.18)
REIGEL
MIDDLETOWN
9
LAYFIELD
MADEIRA
NEW HANOVER
READING
SMILIN JACK
POTTSTOWN
LANCASTER MUN.
MAIN LINE
COATESVILLE
LANCASTER
SEVEN VALLEYS
25
VALLEY
YORK
DEVENER
GETTYSBURG
DOERSOM
N. Y.
WASH.
DU PONT
388
BOOTHWYN
10
PHILADELPHIA
266
(116.1)
PA.
MD.
109
WAYNESBORO
HAGERSTOWN
TANEYTOWN
BIGGS
WOODSTOWN
PENNS GROVE
BELLANCA
AMBER 7
NEW CASTLE
350
ALDINO
SALEM
NEW CASTLE CO.
219
BUCK'S
KROELINGER
PHILLIPS AAF
201(126.18)
GREENWICH
MILLVILLE
NORTH END
C.A.P. BASE NO. 332
MARTINSBURG
STEVENS
PIMLICO
RUTHERFORD
N. BALTIMORE
MD. 1 D.A.
EDGEWOOD ARSENAL AAF
MARTIN
317
BALTIMORE
278(118.9)
FAYBROOK
DOVER AIR PARK
DOVER
DOVER AAF
396(126.18)
MARTINSBURG
209
281
111
RELAY
LEESBURG
BELTSVILLE
18
HERNDON
22
FRONT ROYAL
362
274
GLENBURNIE-WHIPP
BALTIMORE
257
(116.1)
NAF. ANNAPOLIS
2870 (142.74)
LEE ANNAPOLIS
EASTON
WEBB
BRIDGEVILLE
GEORGETOWN
REHOBOTH
BLUE RIDGE
FOR DETAILS IN THIS AREA SEE CHART 39
MANASSAS
ALEXANDRIA
2
WASHINGTON
332
(116.1)
ZIEGER
MT. VERNON
236
NAS. PATUXENT RIVER
420
SUSSEX
DONCASTER
25
GORDONSVILLE
388
SHANNON
NAF. DAHLGREN
368(142.74)
NAS. PATUXENT RIVER
347(142.74)(SEAPLANE)2870
MEEKINS NECK
16
WEBSTER
3345(142.74)
DELMARVIA
SALISBURY
HICKMAN
NAAS. CHINCOTEAGUE
221
NAAS. CHINCOTEAGUE
3295(142.74)
MD.
VA.
PARKSLEY
MELFA
KELLAM
PINEY POINT
TAPPAHANNOCK
LIVELY
CENTRAL
DAWN
25
NORTHFIELD
HERMITAGE
RICHMOND AAB
396(118.7, 126.18)
RICHMOND
260
(116.1)
WEST POINT
MIDWAY
CHESTER
9
RAWLINGS
BLACKSTONE
371
TO NORFOLK
TO NAS. NORFOLK
NORFOLK 56
MILFORD
PITTSBURGH 37
NEW YORK 40
PHILA. NORTHEAST
371
TO MT. HOLLY
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

RADIO

	LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DELAWARE	DOVER AAF	396 (126.18)	CA	(3); 126.18
	DUPONT ARPT (Wilmington)	388	CI	3105,3117.5,5582.5(8-20 daily except Sun.)
DIST. OF C.	WASHINGTON	332 (WA)(116.1)	SBRAZ-VDTX	(4); 116.1
MARYLAND	ANNAPOLIS	2870 (142.74)	CN	3105,2870,6420; 142.74 (7-17)
	BALTIMORE	257 (BO)(116.1)	BMRLZ-VDT	(4); 116.1
	Baltimore Mun. Arpt.	278 (118.9)	C; 12°, 2.3	(4); 131.9,126.18,118.9
	BELTSVILLE FM	(-)	FM; 41°, 17.6	Washington, D. C.
	DONCASTER FM	(. . - - -)	FM; 209°, 24.7	Washington, D. C.
	MARTIN ARPT (Baltimore)	317	CI	(4)(8-sunset Mon - Fri.)
	MEEKINS NECK FM (Navy)	(-)	FM; 57°, 16	Patuxent River
	PATUXENT RIVER (Navy)	420 (NHK)	BMRLZ	(3); 142.74 (GCA)
	Patuxent River NAS	347 (142.74)	CN; 57°, 4	(3); 142.74
	Patuxent Riv.NAS(Seaplane)	2870	CN	2870, 3105
	PHILLIPS FIELD (Aberdeen)	201 (126.18)	CA	(3);126.18 (8-18, Mon thru Fri.)
	WEBSTER (Priest Point)	3345 (142.74)	CN	3105; 142.74 (8-1630)
PENN.	BOOTHWYN FM	(- - -)	FM, 260°, 9.5	Philadelphia
	CARLISLE FM	(- - - -)	FM, 284°, 18	Harrisburg
	HARRISBURG	242 (HX)(116.1)	SBRAZ-VDT	(4); 116.1
	Harrisburg State Arpt.	278 (126.18)	C; 118°, 1.1	(4); 116.1,131.9,126.18
	MIDDLETOWN FM	(- -)	FM, 118°, 9	Harrisburg
	OLMSTED FIELD (Middletown)	396 (126.18)	CA	(4); 126.18
	PHILADELPHIA(Southwest Arpt)	266 (PG)(116.1)	SBMRAZ-VDT;97°, 3	(4); 116.1
	SEVEN VALLEYS FM	(- - -)	FM, 172°, 25	Harrisburg
VIRGINIA	ALEXANDRIA LFM	(- - -)	LFM, 209°, 2.4	Washington, D. C.
	CHESTER FM	(- -)	FM, 218°, 9.15	Richmond
	CHINCOTEAGUE (Navy)	221 (NKZ)	MRLZ	3105,4495; 142.74
	Chincoteague NAAS	3295 (142.74)	CN; 98°, 4.5	(3); 142.74
	DAHLGREN NAF PROV.GROUNDS	368 (142.74)	CN	(3); 142.74 (8-16 except Sun.)
	DAWN FM	(- - - -)	FM, 3°, 25.1	Richmond
	HERNDON FM	(- - - -)	FM, 317°, 21.8	Washington, D. C.
	MOUNT VERNON FM	(. . - - -)	FM, 209°, 8.2	Washington, D. C.
	RICHMOND	260 (RW)(116.1)	SBRAZ-VDT	(4); 116.1
	Richmond AAB	396 (126.18)	AC (ILS);20°; 1.9	(4); 131.9,118.7,126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
RICHMOND AAB, VIRGINIA	109.9		63° Mag.	IM (.17)	MM .....(.90)	OM -- (4.50)	
					MMK		OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

	AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DELAWARE	Bellanca (New Castle)	1.5 W	30	25h L1 S5	80,91 oct. Poles N.
	Biggs (New Castle)	1 NW;riv S,SE	60	21 S2	80 oct.
	Bridgeville	1.5 S	20	27 S6	80 oct. Data not verified.
	Dover	1.4 ENE;crk NW	34	19 S2	80 oct. Pole line N.
	" Airpark	2.2 N; rd W	37	25 S2	80 oct.
	(A) " AAF (A)	4 SE; hwy E	28	70h R1	INACTIVE.
	duPont (Seaford) (NC)	0.8 WSW; RR NE	25	21	Poles NE. PRIVATE. RESTRICTED.
	" (Wilmington)	3 WNW; RR E	185	29 R1 L4 S4	80 oct. No sto.
	(P) Georgetown	1.5 E; RR NW	51	50h	
	(P) New Castle County (Wilmington)	4.8 SW;hwy SE	75	70h R2	
	Rehoboth Beach Aircrafters	2.5 W; hwy N	10	35 S6	80,91 oct. Obsts sur fld.
	Skycraft (Wilmington) (NC)	3 NE; rd N	250	15	Poles N,W,S; trees NW,SE.
	Sussex (Frankford)	1 N		24 S4	80 oct. Data not verified.
MARYLAND	Aldino (Churchville)	2.2 NE;RR SE	400	20 S6	80 oct.
	Andelot (Worton)(NC)	4 WNW; bay W	25	20	Trees N.
	BALTIMORE MUN.	6 SE; RR NE	12	46h R2 L5 S6	80,91 oct; 100 oct prior req.
	C.A.P Base (Westminster)	2.6 N; hwy E	780	20 S4	80 oct. Pole line E, NE.
	Delmarvia (Salisbury)	2.8 NE; hwy W	45	21 S6	80 oct. Pole line N.E.NE.
	Easton	2.2 N; RR E	66	40h S4	80 oct. No sto.
	(A) Edgewood Arsenal (A)	1.3 S	18	50h L5 S4	91,100 oct. No ben. CLOSED.
	Faybrook (Rock Hall)	1.5 NNW; bay W	20	14 S4	80 oct. Trees WNW, NNE.
	Glenburnie-Whipp	1 E; hwy W	56	26 S6	80 oct. Seaplane Anchorage.
	Hagerstown	4.2 N; RR W	700	39h L3 S4	80 oct. Fld lgts prior req.
	Lee Annapolis (Annapolis)	4.8 WSW;hwy E	30	28 S1	73 oct. Pole line ESE.
	Martin (Baltimore)	10 E; RR N	18	70h R1	PRIVATE.
	(N) Patuxent River NAS (N)	2.9 NE Jarboes	38	97h R2 L6 S4	91,100 oct. JP-1. NATS.
	(A) Phillips (Aberdeen)(A)	3.2 S; RR W	57	50h R1 L5 S1	91,100 oct. CLOSED.
	Pimlico (Baltimore)	6 NW; hwy SW	400	32 S6	80, 91 oct.
	(N) Piney Point (N)	0.8 WNW	10	14h S1	73 oct. Use rnwys only.
	Rutherford (Baltimore)	7 W; RR W	500	23 S6	80 oct. Twr N
	Salisbury	5.3 ESE	52	50h	
	Shady Side (NC)	1.8 SSW; RR W	10	15	Pole line SSW.
	Stevens (Frederick)	5.8 N; hwy E	440	28 S6	80 oct. Trees SW,S,W.
	Taneytown	2.9 WNW;hwy S	500	20 S4	80 oct. Pole line S,SW,W.
	Webb (Easton)	2.5 E	50	26 S6	80 oct. No sto. Pole line S, SE.
	(N) Webster (Priest Point)(N)	1.5 W Ingoes	21	50h R1 S1	Ltd 100 oct. JP-1 req.
N. J.	Alexandria (Pittstown)	2 WNW;lake NE	340	18 S4	80 oct. No sto. Trees WSW,ENE.
	Buck's (Bridgeton)	3.7 NNE; RR S	100	18 S4	80 oct. Pole line S, W.
	Greenwich	2.5 W; riv SW	30	21 S6	73,80 oct. Trees N.
	Kroelinger (Vineland)	2.5 NNW;RR E	100	19 S6	80 oct. Pole line S, E.
	(P) Millville	3.3 SW;lake N	68	50h	
	Penns Grove	3 SE; riv W	10	22 S2	73 oct. Pole line W, SSW.
	Salem	2 ESE; rd S	15	22 S6	80 oct.
	Woodstown (Auburn)	1.5 SSE; RR E	100	20 S1	80 oct. Pole line N, NE.
PENN.	ALLENTOWN-BETHLEHEM	4.6 NNE; RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only.Fld lgts prior req.
	Berks (Reading)	4.5 NW; hwy SW	330	23 S4	80,91 oct. Hill NW.
	Bethlehem-Easton (Easton)	4.5 SW; riv S	360	23 S6	80,91 oct.No sto.Pole line sur fld.
	Cargill (Granville)	1.5 SW; RR SE	490	23 S2	73 oct. Obsts sur fld.
	Carlisle	1.8 WSW; RR N	480	23 S2	73 oct.
	Centerville (Carlisle)(NC)	11.3 SW;RR N	660	25	Trees E, NE.
	Chambersburg	1.2 SSE;RR SW	650	22 S6	80 oct. E/W strip rough.
	Coatesville	1.6 W; RR S	623	26 L1 S4	80 oct. Obsts sur fld.
	Convair (Allentown)	3 SSW	399	40h	
	Devener (Hanover)	2 NNE; hwy W	590	20 S6	73,80 oct.
	Doersom (Gettysburg)	2.4 NW; RR N	590	19 S6	73 oct. Pwr line NE.
	Estler (Mohrsville)	3.5 W; pond W	390	22 S6	Ltd 80 oct. Trees W.
	Fogelsville	0.7 E; RR SE	460	22 S4	80 oct. No sto. Pole line SW.
	Gettysburg	2.8 NNW;RR SW	600	24 S3	80 oct. No sto.
	HARRISBURG STATE	3.5 S; RR N	344	40h R2 L5 S6	80,91,100 oct.
	Hershey Airpark	1.1 NNW;RR S	415	21 S1	80 oct.
	Kutztown	1.5 S; RR SE	400	25 S4	73 oct.
	Lancaster	1.5 WNW;RR SW	320	26 S6	73,80 oct. Pwr line W.
	" 35,CO-PG	5.5 N; hwy W	385	27h L4 S4	80 oct. Poles S, WSW.
	Layfield (New Hanover)	2 NE; hwy W	320	17 S6	80 oct. Trees NE.
	Lebanon County (Myerstown)	2 W; dam N		20 S4	80 oct. Data not verified.
	Lewistown	4 SW; riv SE	560	19 S6	80 oct. Wooded hill NW.
	Madeira (Reading)	3.2 N; RR W	360	20 L S6	80 oct. Port flood lgts.
	Mount Union	4 S; hwy E	560	30 S4	80 oct.
	New Hanover	0.5 W; hwy SE	320	20 L S4	80 oct. Port. flood lgts.
	(A) Olmsted (Middletown)(A)	1 W;RR N;riv S	300	50h R1 L5 S6	62-100 oct.JP-1. Poles N, NE.
	Penn-Harris (Harrisburg)	4 ESE; RR N	400	25 L S6	80 oct. Floodlgts.
	Philadelphia Main Line (Paoli)	2.8 WNW;hwy S	310	21 S4	No fuel. Pole line ESE.
	Pottstown	4.5 E; hwy N	311	30 S6	80 oct. Bldg NW.
	READING	3 NW; riv E	342	52h L1 S6	B-2 lgts prior req.
	Reigel (Campbelltown)	1 N; hwy N	475	20 S4	80 oct.
	Schuylkill (Pottsville)	8.3 ESE;lke SE	510	29 S6	80 oct. Hills SW, E, NE.
	Smilin' Jack (Douglassville)	1.3 NW; RR S	200	24 S4	80 oct.
	Sunset Airways (Chambersburg)	3.5 NNE; rd E,S	650	25 S1	80 oct. Pole line E, NNW.
	Swatara Valley (Pine Grove)	4 WSW; RR N	480	21 S4	80 oct.
	Taylor (New Kingston)	0.5 SE; hwy N	440	28 S6	80 oct. Pole line N.
	Valley Airpark (York)	3 ENE; RR N	420	21 S4	80 oct. Poles SSE,NNW.
	Waynesboro	3 SE; hwy N	700	20h S6	80 oct.
	Womelsdorf	3 NW; hwy E	540	13 S1	73 oct.
	York	8.3 WSW;RR E	500	19 L S6	73,80 oct. Floodlgts. Pole N.
VIRGINIA	Blue Ridge (Herndon)	4 WSW;hwy NE	280	30	Pole line E.
	Central (Richmond)	2.5 ENE;RR W	172	45 S6	80 oct. Poles WNW, SE.
	(N) Chincoteague NAAS (N)	4.5 WNW;hwy S	38	60h R2 L5 S4	100 oct.
	(N) Dahlgren NAF Proving Grounds (N)	0.5 E	20	40h R1 L5 S2	100 oct. CLOSED.
	Harcum (NC)	0.2 NW	85	35	Poles, trees sur fld.
	Hermitage (Richmond)	3.2 NNW; RR W	200	20 S6	80 oct. Trees, poles E,W.
	Hummel (Greys Point)(NC)	3 NE Harmony	30	21	Obsts sur fld.
	Kellam (Weirwood)	0.3 SW; RR E	15	20 S1	73 oct. Trees NE,SE.
	Leesburg Airpark	0.7 ESE	280	26 S6	80 oct. Pole line NE.
	★ Lively Int,6 NW-WA	3.4 WSW;riv W	15	34 L3	35' trees, bldgs NW.
	Manassas	2.7 NW; RR S	250	21	Pole line SW,SSE.
	Melfa Flight Strip	1.3 W	48	70h	
	Midway (Chester)	2 E; hwy S	178	26 S2	80 oct. 20-50' trees E.
	★ Milford Int,49B,AG-LG	1.5 S; RR W	134	26 L3	40' trees S,NE,SW.
	Northfield (Richmond)	3 N; hwy W	197	20 S3	Fuel. Data not verified.
	Parksley	0.6 WNW	25	18 S4	80 oct.
	(A) RICHMOND AAB (A)	7.3 ESE;RR S	160	50h R3 L5 S4	73,100 oct.
	Shannon (Fredericksburg)	1.6 SSE;riv E	50	22 S6	80 oct.
	Tappahannock Flight Strip	0.8 W	30	40h	8000' strip avail.
	West Point	2.3 ESE;riv SSW	24	50h	
	Zieger (Warrenton)	3.7 S; hwy NE	440	20 S2	80 oct. Hill NW,W.
W.VA.	(P) Martinsburg	4 S; hwy W	550	50h R1 L5 S6	80,91 oct.
	North End (Martinsburg)	2.5 NNE;RR W	515	28 S2	80 oct. Pole line N.
	→ Hickman (Ocean City)	7.5 NW	15	27 S1	80,91 oct.Data unverified.
	→ (N) Annapolis NAF (N)(NC)	1 E	S.L.	Unl S2	Fuel.Ramp;haulout;buoys.
	→ Ⓒ Baltimore (NC)	7 S; bay E		Unl L1 S4	Fuel.Ramps.
	→ Ⓒ Glen Burnie-Whipp (NC)	1.5 E	50	100 S6	80 oct. Ramp
	→ (N) Middle River NAF(Baltimore)(N)(NC)	10 E	S.L.	Unl S6	91,100 oct.Ramps;buoys.
	→ (N) Patuxent River NAS (N)(NC)	2.9NE Jarboesv	S.L.	Unl S4	91,100 oct.Ramps;buoys.
	→ Ⓒ Air-Harbor (Harrisburg)(NC)	1 SSW;brdg SE	300	30 S4	80 oct.Boat.
	→ (N) Dahlgren NAF (N)(NC)	Adj. SE	10	S2	Fuel. Ramp.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO — DISTRICT OF COLUMBIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANACOSTIA NAS (Washington)	251(142.74)	CN	(3);142.74(7-sunset and on req.)
BOLLING FIELD (Washington)	219(126.18) (128.16)	CA	(3);126.18,128.16
WASHINGTON Washington Nat'l Arpt.	332(WA)(116.1) 278(126.18) (118.5)	SBRAZ-VDTX AC(ILS);25°,0.8	(4);126.18 (4);118.5,126.18,131.9

MARYLAND

ANDREWS FLD (Camp Springs)	317(126.18)	CA	(3);126.18
BELTSVILLE FM	(-)	FM, 41°,17.6	Washington, D. C.
DONCASTER FM	(. . . - - -)	FM, 209°,24.7	Washington, D. C.

PENNSYLVANIA

BOOTHWYN FM	(- - -)	FM, 260°,9.5	Philadelphia
HOLMESBURG LFM	(- - -)	LFM, 238°,6.5	NE Philadelphia
JOHNSVILLE AIRPORT	203 (142.74)	CN	3105 cont,4495,6210;116.1,126.18, 140.58,142.74 on req (8-1/2 hr past sunset)
MUSTIN NAAF (Philadelphia)	251(126.18) (142.74)	CN	(3);126.18,142.74 (7-sunset,other hrs req on request.)
PHILADELPHIA (SW Arpt)	266(PG)(116.1)	SBMRAZ-VDT;97°,3	(4); 116.1
Philadelphia NE Arpt	278	CI	(4)
Philadelphia SW Arpt	278	CI	(4)
NE Philadelphia Range (Phil. NE Arpt)	371 (NF)	MLWZ-DT,238°,2.8	
WILLOW GROVE (Navy)	391 (NXX)	MRLZ	(3); 142.74
Willow Grove NAS	356 (142.74)	CN; 241°,3.35	(3);142.74 (days only except on 1 hr advance notice)
WINGS FIELD (Ambler)	278	CI	3105 (9-17)

VIRGINIA

ALEXANDRIA LFM	(- - -)	LFM,209°,2.4	Washington, D. C.
HERNDON FM	(- - - -)	FM, 317°,21.8	Washington, D. C.
MOUNT VERNON	236 (W)	FMK, 209°,8.2	Washington. D. C.
MOUNT VERNON FM	(. . - - -)	FM, 209°,8.2	Washington, D. C.
QUANTICO (Navy)	203 (NYG)	MRLZ	3105, 4495
Quantico MCAS	3295(142.74)	CN; 20°,4.6	(3); 142.74

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
WASHINGTON, D. C.	109.9	333.8	360° Mag.	IM ·····(.03)	MM	OM - - (3.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — DISTRICT OF COLUMBIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Anacostia NAS(Washington)	2.4SE Monument	8	50h R1 L5 S4	100 oct. No bcn. (N)
(A) Bolling(Washington)(A)	3 SSE Monument	20	60h R1 L5 S6	73,91,100 oct.JP-1.Ridge E
(A,N)Washington National	2 S Monument	17	69h R3 L6 S2	80,91,100 oct.JP-1 req. Rdo rec. req.730'Rdo Twr,6.2 NW.CLOSED.
(N)⊕Anacostia NAS (Washington)	2.4 SE Mon't.	8	106 S4	87-100 FOREIGN CLEARING STA. oct.Ramp;All facs prior req. (N)(NC)

MARYLAND

(A) Andrews (Camp Spring)(A)	1.5 E	279	55h R1 L5 S4	91,100 oct. JP-1
(N) Beltsville OLF (N)	5 ESE	180	40h	CLOSED.
Capital (Berwyn)	2 NW; RR E	70	20 S4	80 oct. Pole line S.
College Park	8.5 NE of D.C	49	22 S6	80 oct. Hill SE. RR NW.
Columbia Air Ctr (Croom)	3 E; RR W	40	20	Trees N,NNW
Congressional (Rockville)	2 SSE;hwy E	450	32 S6	80 oct. Pole line E,NE.
Curtis (Brandywine)(NC)	3 SSW;RR E	200	18	Pole line N,W.
Erco (Riverdale)	0.4 NE; RR W	50	38 S1	80 oct. Trees E,NE,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

MARYLAND

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(A) Ft. Meade (A)	0.5 NE ctr res	180	20h	
Hyde (Clinton)	2 WSW	249	32h S6	80,91 oct. Trees WNW,NE.
Maryland (Pomonkey)	0.2 S; RR S	170	30 S1	80 oct.
Queens Chapel (Hyattsville)	1.5 W; hwy NE	34	17 S6	80 oct.
Schrom (Greenbelt)	0.3 SW; hwy W	177	27h S6	80 oct. Trees NW,SE.

NEW JERSEY

Almonesson	0.6 NNW	50	18 S6		73 oct. Pole line NNE,SSE.
Bridgeport	0.8 ESE; RR N	23	18 S4		80 oct.
Burlington Airpark	1.7 NE		24 S4		80 oct. No sto.Data unverified.
Central (Camden)	1.8 E;riv S,W	20	25h		Open to private flying.(NC)
Echelon (Ashland)	0.5 SE;RR W	100	27 S6		80,91 oct. Pole line NW.
Marlton-Medford (Medford)	4 W	70	19 S4		80 oct. Data not verified.
Mercer County,new (Trenton)	5 NW; RR SE	211	40h		
Mercer County, old (Trenton)	5.8 NW;RR E	200	25 S1		73,80,91 oct.
Merrill (Barrington)	1 ESE; RR E	70	35 S6		80 oct.No sto.Obsts sur fld.
Moorestown	1 NNE; RR S	70	18 S4		80 oct. Trees N.
Pitman	1.6 NNW;RR E	100	17 S6		80 oct. Pole line S,SSW.
Triangle (Glassboro)	4.3 ENE	150	18 S2		80 oct. Pole line SW.

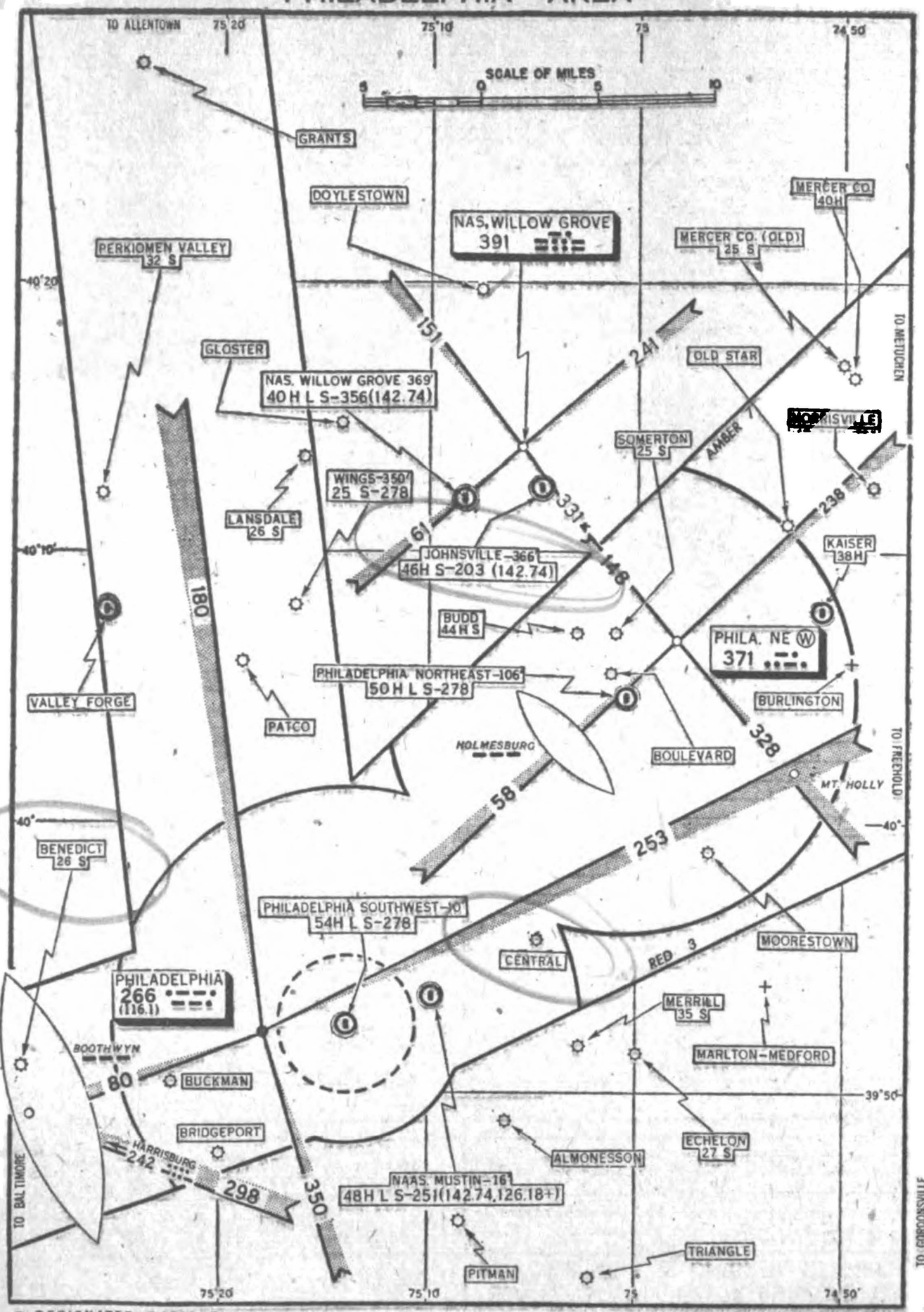
PENNSYLVANIA

Benedict Inc.(Chester)	6.5 W; hwy W	400	26 S4		80 oct.Rnwy data unverified.
Boulevard (Philadelphia)	12 NE; RR SW	160	22 S4		80 oct. Obst sur fld.
Buckman (Chester)	2.3 WSW;RR NW	90	20 S4		80 oct. No sto.
Budd (Philadelphia)	12.5 NE;RR N	240	44h		
Doylestown	1.5 NNE;RR SW	400	22 S6		80 oct.
Gloster (Montgomeryville)	0.7 SE;hwy W	460	22 S1		80 oct. Pole line SE,S,W.
Grants (Quakertown)	4 WNW; hwy E	600	18 S6		80 oct.
(N) Johnsville	0.8 NW; RR E	366	46h R1 S4		91,100 oct. Res't to Navy.
(N) Kaiser (Bristol)	2 N; riv SE	35	38h		Pole line SW. RESTRICTED.
Lansdale	1.6 ESE;hwy SE	450	26 S6		80,91 oct. No sto. Poles NE.
Morrisville	1.6 W;riv E	180	28 S4		80 oct.
(N) Mustin NAAS (Philadelphia)	4 S; riv S	16	48h R1 L5 S6		100 oct. Pole line NE.NAFC.(N)
Old Star (Langhorne)	2.4 E; RR N	180	24 S5		80 oct.No sto. Poles N,S.
Patco (Norristown)	2.5 SE;bet RRs	200	19 S6		80,90 oct. No sto.
Perkiomen (Collegeville)	1.5 NE;rds NE	280	32 S6		80 oct. Obsts sur fld.
(P) Philadelphia Northeast	12.2 NE;hwy W	106	50h R2 L5 S1		80,91 oct.Rdo req.
" SOUTHWEST	6.5 SW;riv SW	10	54h R2 L5 S6		82,91 oct. Rdo rec req.
Somerton (Philadelphia)	14 NE;RR N,E	200	25 S6		80 oct. Poles N,S,W.
Valley Forge (Norristown)	4 WNW;riv NW,SE	250	24 S6		80 oct.
(N) Willow Grove NAS (N)	4 NNW; hwy E	369	40h R2 L5 S4		91,100 oct. No sto.NAFC.NATS.
Wings (Ambler)	3 WSW;rds E,W	350	25 R1 S6		80,91 oct. Trees N,S.
(N)⊕Mustin NAAS (Philadelphia)(N)	4 S	S.L.	120 S6		87-100 oct. Ramp.(NC)
⊕Philadelphia	10 SW	10	Unl S6		80,91 oct. Ramps; all facs. (NC)
⊕Philadelphia Skyport(Phila.)	Center of City	10	Unl S6		Boat;all facs. (NC)

VIRGINIA

Beacon (Alexandria)	3 SSW;hwy E	240	24 L1 S6		80 oct.No sto. Pole line S.
Crossroads (Alexandria)	4.5 NW;RR E	250	20 S1		Ltd 80 oct.
Falls Church Airpark	1.9 SW	350	26 S6		No sto. Data not verified.
Hybla Valley (Alexandria)	4.5 SSW;hwy E	66	50 S6		80 oct. Trees,pole lines sur fld.
(N) Quantico MCAS (N)	1.2 SSW;RR W	10	42h R2 L5 S6		73,91,100 oct. NATS.
Springfield (Annandale)	3.5 SSE;RR E,N	240	20 S4		80 oct. No sto. Obsts sur fld.
(N)⊕Quantico MCAS (N)(NC)	1 S	13	180 S4		Fuel. Buoys;boats;ramp.

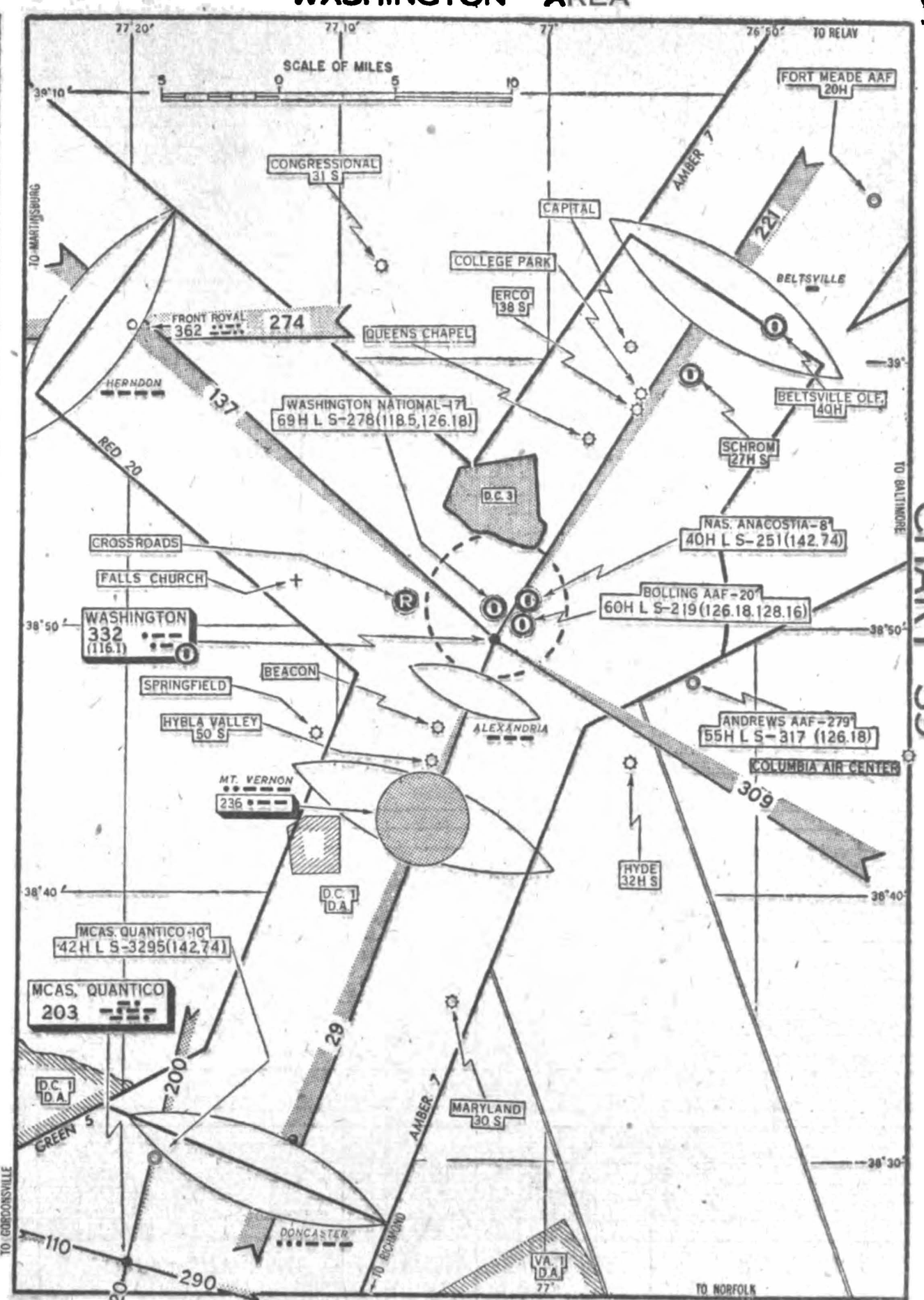
PHILADELPHIA AREA



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

WASHINGTON AREA

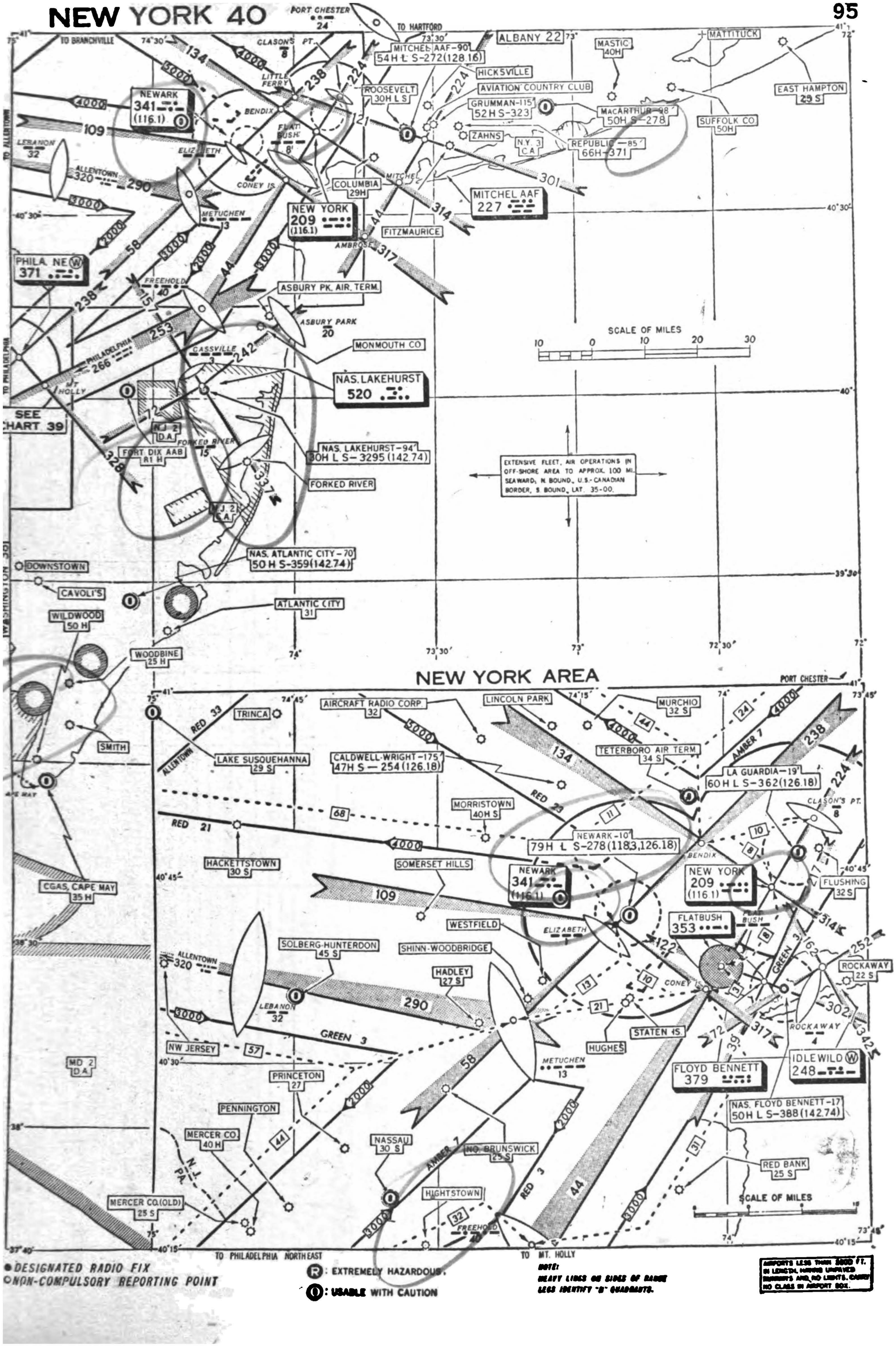


NOTE:
HEAVY LINES ON SIDES OF BASIC [illegible]

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

CHART 39

NEW YORK 40


PORT CHESTER
TO HARTFORD
TO BRANCHVILLE
GLASON'S PT.
MITCHEL AAF-90
54H L S-272(128.16)
ALBANY 22
MASTIC 40H
MATTITUCK
HICKSVILLE
LITTLE FERRY
NEWARK 341 (116.1)
ROOSEVELT 30H L S
AVIATION COUNTRY CLUB
EAST HAMPTON 29 S
BENDIX
FLATBUSH
GRUMMAN-115' 52H S-323
MACARTHUR-98' 50H S-278
SUFFOLK CO 50H
ZAHNS
N.Y. 3 CA
REPUBLIC-85' 66H-371
LEBANON 32
ELIZABETH
ALLENTOWN 320
CONEY IS.
COLUMBIA 29H
MITCHEL
MITCHEL AAF 227
METUCHEN 13
NEW YORK 209 (116.1)
FITZMAURICE
AMBROSE
PHILA. NE 371
FREEHOLD 40
ASBURY PK. AIR. TERM.
ASBURY PARK 20
MONMOUTH CO
CASSVILLE 3
PHILADELPHIA 266
MT HOLLY
NAS. LAKEHURST 520
SCALE OF MILES
10 0 10 20 30
SEE CHART 39
NJ 2 DA
FORKED RIVER 15
FORT DIX AAB R1 H
NAS. LAKEHURST-94' 30H L S-3295 (142.74)
FORKED RIVER
EXTENSIVE FLEET AIR OPERATIONS IN OFF-SHORE AREA TO APPROX. 100 MI. SEAWARD, N. BOUND., U.S.-CANADIAN BORDER, S. BOUND., LAT. 35-00.
NJ 2 CA
NAS. ATLANTIC CITY-70 50 H S-359(142.74)
DOWNSTOWN
CAVOLI'S
ATLANTIC CITY 31
WILDWOOD 50 H
WOODBINE 25 H
WASHINGTON 301
39°30'
73°30'
73°
72°30'
72°
74°
NEW YORK AREA
PORT CHESTER
AIRCRAFT RADIO CORP 32
LINCOLN PARK
MURCHIO 32 S
TRINCA
RED 33
ALLENTOWN
LAKE SUSQUEHANNA 29 S
CALDWELL-WRIGHT-175' 47H S-254 (126.18)
TETERBORO AIR TERM 34 S
LA GUARDIA-19' 60H L S-362(126.18)
SMITH
MORRISTOWN 40H S
RED 21
RED 23
NEWARK-10' 79H L S-278(118.3,126.18)
CLASON'S PT.
HACKETTSTOWN 30 S
SOMERSET HILLS
NEWARK 341 (116.1)
NEW YORK 209 (116.1)
FLUSHING 32 S
CGAS, CAPE MAY 35 H
WESTFIELD
ELIZABETH
FLATBUSH 353
SOLBERG-HUNTERDON 45 S
SHINN-WOODBRIDGE
HADLEY 27 S
ROCKAWAY 22 S
LEBANON 32
CONEY IS.
STATEN IS.
HUGHES
ROCKAWAY 4
NW JERSEY
GREEN 3
MD 2 DA
PRINCETON 27
METUCHEN 13
FLOYD BENNETT 379
IDLEWILD 248
PENNINGTON
NAS. FLOYD BENNETT-17 50H L S-388(142.74)
MERCER CO 40 H
NASSAU 30 S
AMBER 7
NO. BRUNSWICK 25 S
RED 3
RED BANK 25 S
HIGHTSTOWN
MERCER CO.(OLD) 25 S
FREEHOLD
SCALE OF MILES
TO PHILADELPHIA NORTH EAST
TO MT. HOLLY
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS.
U: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 3000 FT. IN LENGTH, NOT PAVED RUNWAYS AND NO LIGHTS. CARRY NO CLASS IN AIRPORT BOX.

RADIO — NEW JERSEY

LOCATION	FREQ.IDENT	STA. CLASS, BEAR. & DIST.	FREQS.GUARD HRS. OF OPER.REMARKS
ASBURY PARK FM	(-)	FM, 62°,20	Lakehurst NAS
ATLANTIC CITY NAS	359 (142.74)	CN	(3); 142.74 (7-1530 Mon.-Fri.)
CALDWELL-WRIGHT	254 (126.18)	CI	(4);126.18(8:30-sunset,Mon.-Sat.9-sunset Sun.)
CASSVILLE FM(Navy)	(- - - -)	FM,337°,3.25	Lakehurst NAS
ELIZABETH LFM	(- - -)	LFM, 238°,1.4	Newark
FORKED RIVER FM (Navy)	(- -)	FM,157°, 15	Lakehurst NAS
FREEHOLD FM	(- - - -)	FM,224°, 40	New York, N.Y.
LAKEHURST (Navy)	520 (NEL)	MRLZ	3105 (4495 on req)
Lakehurst NAS	3295(142.74)	CN, 157°, 0.7	(3), 142.74
LEBANON FM	(- -)	FM, 110°, 32	Allentown, Pa.
METUCHEN FM	(- - - -)	FM, 238°, 13	Newark
NEWARK	341(NK)(116.1)	SBRAZ-VDT	(4);131.9,126.18
[redacted]	278 (126.18) (118.3)	AC, 58°, 0.9	(3);142.74(7-sunset)

NEW YORK

CLASON'S POINT LFM	(-)	LFM, 44°, 7.5	New York
FLATBUSH	353 (F)	FMK, 224°,8.3	New York
FLATBUSH FM	(- - -)	FM,224°, 8.3	New York
FLOYD BENNETT (New York)	379 (FB)	SBMRLZ-DT	(3)
Floyd Bennett Fld NAS	388 (142.74)	CN, 122°, 1.9	(3) (8-17)
GRUMMAN (Bethpage L. I.)	323	CI	(8-1630,Mon.-Fri.)
IDLEWILD	248 (NY)	SMRLW,72°,2.3	
LA GUARDIA(N.Y.)	362 (126.18)	CI (ILS),44°,3.4 (Appch Control)	(4),116.1,140.1,126.18 AA,TWA, UAL freq
MacARTHUR FIELD (Islip)	278	CI	3105 (7-17 week days,ngt & Sun.if important)
MITCHEL (Hempstead)(Army)	227 (DWM)	SBMRAPZ-DT	(3)
Mitchel Field	272 (126.18)	CA (ILS),301°,3.2	(3), 126.18
NEW YORK	209 (LG) (116.1)	SBMRAPZ-VDTX	(4), 116.1
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
REPUBLIC FIELD (Farmingdale)	371	CI	(3) (days)
ROCKAWAY PARK LFM	(- -)	LFM, 122°, 5	Floyd Bennett

PENNSYLVANIA

PHILADELPHIA NORTHEAST	371 (NP)	MLWZ-DT	

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LA GUARDIA, NEW YORK	109.9		44°mag	IW (.05)	MW (.81)	OM (3.40)
				MWE 233 --- (.81)	OME	
[redacted]	110.3	335	300°mag	IW (.06)	MW ..... (.81)	OM -- (4.03)
				MWE 257 -- (.81)	OME 201 --- (4.03)	

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station.
(3)-3105,4495,6210 kcs.,(4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — NEW JERSEY

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aero-Marine Terminal (Keyport)(NC)	1 NE;RR S	10	15	Bldg SW.Hwy S
Asst. Radio Corporation (Princeton)	3.8 N,riv S	350	32	Poles N,E. PRIVATE.
Asbury Park Air Terminal	4.5 W,rd N	100	21 S4	80 oct.125' tank E.
Atlantic City	1.3 WSW,RR N	11	31 S2	350'tank E,lgtd.No fuel.
(N)Atlantic City NAS(N)	10 NW;RR NE	70	50h R1 L5 S4	91,100 oct. Lgts prior req.
(P)Caldwell-Wright	2.4 N;riv N	175	47h R1 L1 S1	Rest'd factory oper
Cape May CGAS	2.5 ENE	13	35h	CLOSED
‡Cape May CGAS(NC)	0.5 S	S.L.	Unl. S	Ramp,haul-out, buoys.
Cavoli's(Richland)	1.5 W,RR N,E	100	20 S4	80 oct.Poleline NNE No sto.
‡Dawn Patrol(Secaucus)	0.5 N;bridge SW	5	50 S2	73 oct.Winch. (NC)
(N)Clarke(Ocean City)	2.8 SW;RR SE	8	23	Naval tow target practice.
Coyle (Chatsworth)	6 ESE,hwy NE	190	18	(NC)
Downstown(Landisv'l)	1.8 WNW;RR S	120	23 S1	80 oct.Poleline N
Forked River	1 ESE,riv S	12	18 S4	80 oct.Rnwy data not verified.
(A)Ft.Dix AAB (Wrightstown) (A)	1 SE	120	81h	INACTIVE.
Hackettstown	2 SSW;RR N	560	30 S2	73, 80 oct.
Hadley (New Brunswick)	4 N;RR N	100	27 S6	80 oct.
Hightstown & Air Svc.	1 3 SW,RR W	110	19 S6	80 oct.
(N)Lakehurst NAS (LTA)	1 NNW;riv N	94	38h R2 L5 S4	91, 100 oct. (N)
Lake Susquehanna (Blairstown)	2.3 WSW,RR S	380	28 S6	80 oct
©Lambrose Air College (Ridgefld Park)(NC)	0.5 S	5	40 S4	80 oct.Boat,ramp, winch.
Lincoln Park	1.5 N;RR W	180	23 S1	80 oct. Poleline SE, N.
Little Ferry	0.5 E;bridge N	5	40 S6	80 oct.Boat, ramp,tractor.
Mellor-Howard (Ridgefield Park)	1 S	5	35 S4	80 oct.Ramp,all facs.
Mercer Co.(Trenton) (new)	5 NW;RR SE	211	40h	
Mercer Co.(Trenton) (old) (NC)	5.8 NW;RR E	200	25 S1	73,80,91 oct.
Monmouth Co.(Belmar)	5.5 W;rd E	180	30 S5	80 oct.
Morristown	3 E,RR N	187	40h L5 S4	80 oct.No sto.
Murchio (Paterson)	4.5 WNW;rd N	350	32 S4	80 oct.Trees N.
Nassau Arpk.(Clarksville)	1 NE,RR SE	80	30 S4	80 oct.Pwrline SSE
(A)NEWARK	3.5 SSE;RR E	10	79h R2 L5 S1	80-100 oct.JP-1. 2-way rdo req. FBO
North Brunswick	2 SW;RR E	120	25 S2	No fuel.Poles ENE,
Northwest Jersey (Clinton)	3.5 W,RR S	380	19	Poles N,S. ESE.
Ocean Co.(Adamston) (NC)	1 SW;riv N	14	21	Obsts sur fld.
Pennington	2 ESE;RR W	230	20 S6	80 oct.No sto.Pole line ESE
‡Perth Amboy (NC)	5 E		Unl S1	80 oct.;dolly,boat, ramp,dock,float.
Princeton	3 N,riv E	160	27	Poleline E,ESE.
Red Bank	1 S;RR E	80	25 S6	80,91 oct. Poleline W
Shinn-Woodbridge (Woodbridge)	3.9 NW,RR E	120	21 L S4	73,80 oct.Poleline SE.
Smith C.H.(Cape May)	2.2 NE,RR W	20	19	Pole line WNW
Solberg-Hunterdon (Readington)	1 NNW;rd E	200	30 S6	80, 91 oct.
Somerset Hills (Basking Ridge)	1.6 SE,RR S	250	24 S6	80 oct.Pole line W.
Teterboro-Air Terminal (Bendix)	0.5 SW;RR NW	5	34 L4 S1	80 oct.No bndry lgts
Trenton (NC)	6 NE,RR I SE	70	15	Rest'd to USFS.
Trinca (Andover)	2 WSW,RR E	600	24 S6	73 oct
Westfield (Rahway)	2 W,lake N	100	24 S4	80 oct.No sto. Trees SW,W,N,S.
Wildwood	6 WNW;RR E	22	50h	Obsts S.
(P)Woodbine	2 SE	30	28h	Trees sur fld. At jet RRs.

AIRPORTS — NEW YORK

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
‡Adirondack (Eagle Bay)(NC)	0.3 S	1707	70 S1	80 oct. Beach
Bender-Brentwood (Brentwood) (NC)	1 ENE;RR N	85	10	
‡Cold Spring Harbor (Oyster Bay)	2 E	10	50	Buoys, beach,boat, dolly
Columbia (Valley Stream)	1 SW,RR N	15	29h	
Davis Flight Strip (Bayport) (NC)	1.3 NNW;RR S	40	22	
Deer Park	0.8 ESE;RR N	75	10	Trees adj E.Pole line W.
Donovan Hughes (Greenridge)	1 N;crks S,W	10	17 S1	80 oct.
‡Downtown Skyport (New York)(NC)	Foot Wall St.	S.L.	S1	Fuel. Floats
East Hampton	2.5 W,RR S	40	25 S4	80 oct.No sto.
‡Evers (New York)(NC)	11 NE	5	70	Bridge SSW. Ramp buoy,boat,winch.
Fitzmaurice (Massapequa)	1.5 ENE;RR S	36	14 S6	80 oct.No sto.Trees N,S.
(N)Floyd Bennett NAS (New York) (N)	11.8 SSE	17	50h R2 L6 S4	91,100 oct. No sto. No bcn.
Flushing	1.5 NNW;pkwy E	4	32 L S4	80 oct.Pole line W, SW. Portable rnwy lgts prior req
Grumman (Bethpage)	0 5 W;RR NE	115	54h R1 S5	91, 100 oct.Poles SW, SE.
©Grumman (Port Washington)(NC)	1.5 NW	S.L.	158 S4	Fuel.Ramps.All facs.
Hicksville Airpark	2.4 N;RR E	190	17 S4	80 oct.
(A,N) LA GUARDIA (New York)	5 E;riv N	19	60h R3 L6 S1	73,100 oct.Rdo rcv req. INACTIVE. FEE.
©La Guardia (New York)	5 E	S.L.	211 L1 S6	73-100 oct.Ramps, winch,buoys. (NC)
(P)MacArthur (Islip)	8 NE;RRs N,S	98	50h R1 L5 S1	91 oct.All lgts prior req.Rdo req
Mastic Flight Strip	2.6 NW	66	40h	
Mattituck	1.5 E,bay S	12	25 S4	80 oct.Poles N.
(A)Mitchel(Hempstead)(A)	0.5 NE;RR N	90	54h R3 L6 S6	73,91,100 oct.JP-1. Foreign Clearing Station.
Nassau (Hempstead)	4.5 E,hwy N	80	21	
(N)New York NAS (N) © (NC)	11.8 SSE	S.L.	100 S4	73, 91, 100 oct. Ramps,tractor.
©North Long Beach (NC)	0.4 N,brdg SW	S.L.	75 S4	80 oct.Ramp,float
©Queens (White Stone)(NC)	1 N	S.L.	200 S4	80 oct.Ramp,dock.
Republic (Farmingdale)	1.3 ENE;RR N	85	66h R1 L5	NE blocked.Closed ngts.trans. PRIV.
Richmond Co.(Travis) (NC)	0.5 SW,riv W	10	24	160' chimney SW.
Rockaway (Edgemere)	1 WSW	20	22 S4	80 oct.Pwr line S, SE.
Roosevelt (Mineola)	1.6 ESE;RR N	90	30h L3 S6	80,91,100 oct. Wires NE.
Sayville (NC)	0.8 N	25	15	Trees sur fld.
Staten Island (New Springville)	1 S;rd W	40	22 S4	80 oct.Poleline SW
Suffolk Co. (Westhampton Beach)	2.6 N	69	30h	
©Yonkers (NC)	S end	S.L.	Unl. S4	Fuel. Ramp.Clsd Dec.15-Mar.15.
Zahns(Amityville)	2.5 NNE;RR NE	80	22 S6	80 oct.Pole line SW.

S-Hard surfaced runways. R-radio facilities L-lighting facilities S-servicing (see page 14) (NC)-Not charted.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BANNING FM	(-)	FM, 76°, 25	Riverside
CORONADO FM	(- -)	FM, 139°, 10	San Diego
DAGGETT(San Bernardino Co.	365 (DG)(116.1)	SBRAZ-VDT,149°, 0	(4); 116.1
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
FONTANA FM	(- - - -)	FM,324°, 16.5	Riverside
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
INYOKERN FM	3295(142.74)	CN	3105,4495;142.74(days only)
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LA MESA FM	(-)	FM, 75°, 13.2	San Diego
LEBEC FM	(- -)	FM, 141°, 42	Bakersfield
LINDBERGH FLD (San Diego)	278 (126.18) (118.3)	AC	(4);126.18,118.3,131.9
LONG BEACH	233 (HB)	SBMRLZ-DT,298°,3.9	(3)
LOS ANGELES	260 (LA)	SBRAZ-DTX,244°, 3.8	(4)
MARCH FIELD (Riverside)	201 (126.18)	CA (ILS)	(3)
MIRAMAR MCAS (San Diego)	3295(142.74)	CN	(3); 142.74 (GCA)
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1
MUROC (Army)	350 (DUC)	BMRL	
Muroc AAF	219 (126.18)	CA; 64°, 2.2	(3); 126.18
NEWHALL (Int.)	209 (WH)(116.1)	BMRL-VDT,317°,0.1	(4); 116.1
OCEANSIDE	326 (OC)	MHT	(4)
OCEANSIDE FM	(- - - -)	FM, 325°, 34	San Diego
PALMDALE	322 (PA)(116.1)	SBMRAZ-VDT,216°,2.5	(4); 116.1
REAM NAAS (San Ysidro)	3295(142.74)	CN	3105,142.74 (745-1630 Mon.-Fri.)
RIVERSIDE (March Fld)	388 (RV)(116.1)	SBMRAZ-VDT,128°,2.9	(4); 116.1
SAN BERNARDINO AAF	272 (126.18)	CA	(3); 126.18
SAN CLEMENTE ISLAND (Navy)	359 (NGA)	MRLZ	3105
San Clemente Island NAAS	3295(142.74)	CN, 305°, 1.6	3105;4495;142.74
SAN DIEGO (Lindbergh Fld)	224 (SQ)(116.1)	SBRAZ-VDT,139°,2.3	(4); 116.1
San Diego NAS	266 (142.74)	CN	(3);126.18,142.74
San Diego NAS (Seapl.)	2870	CN	
SAN NICOLAS ISLAND FM(Navy)	(- - - -)	FM, 275°, 59	San Clemente Island
TRONA (Int.)	323 (EW)	SBMRAZ-DT,349°,11	(4) Not manned cont.
VICTORVILLE AAF	278 (126.18)	CA	(3); 126.18

(Localizer and G.P. in mcs, Compass Locators in kcs)

INSTRUMENT LANDING SYSTEMS				MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LOCATION	LOCALIZER	G.P.	APPR. BEAR.	IM (.19)	MM ..... (.85)	OM --(3.99)	
MARCH, CALIF.	109.9		229° Mag.		MMK	OMK	

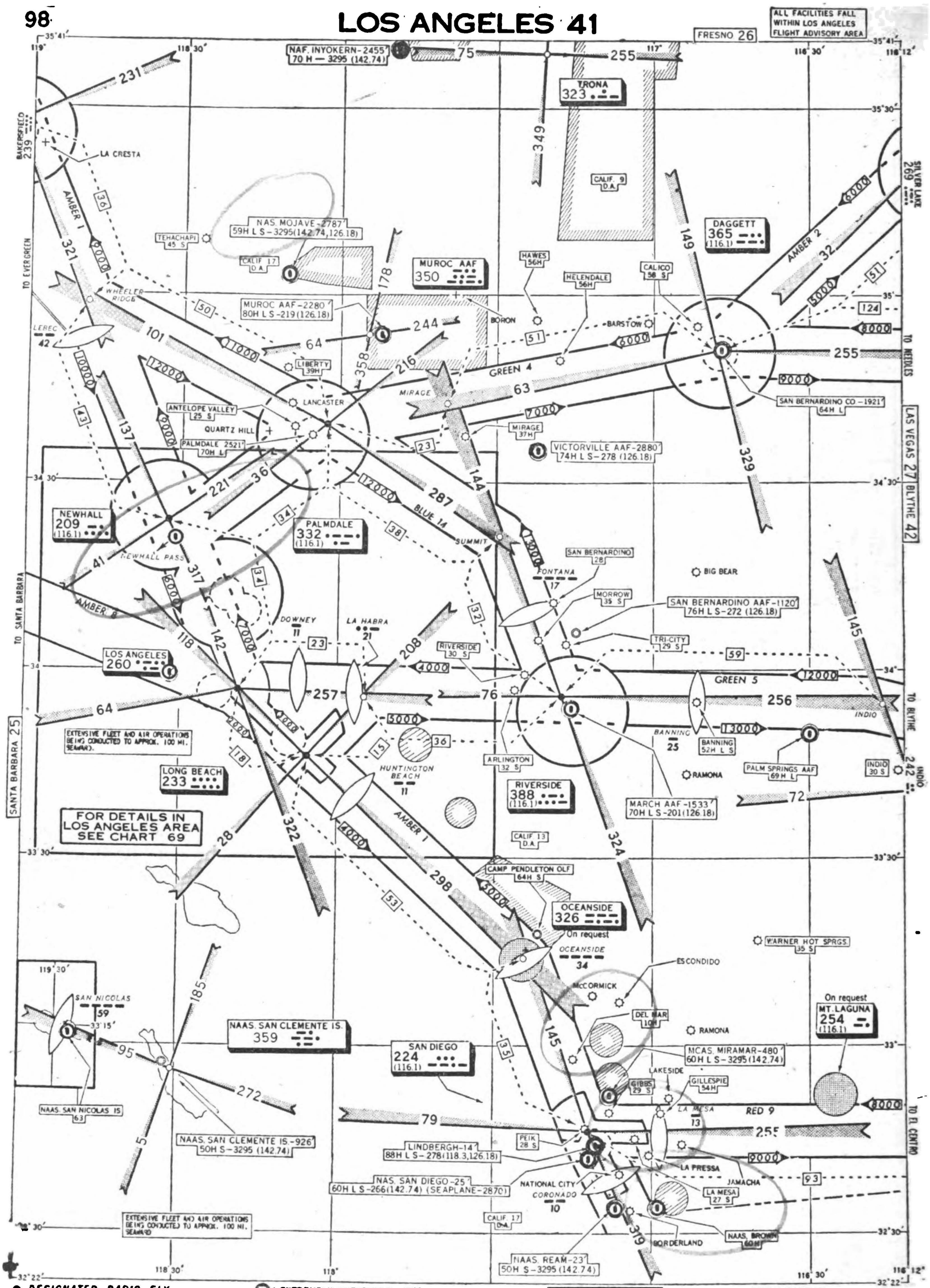
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Antelope Valley (Lancaster)	3.4 S;hwy E	2470	25 S2	Ltd 73 oct.
Arlington (Riverside)	4.5 WSW;RR W	765	32 S6	80 oct. No sto.
Bakersfield Kern Co.#2 (Bakersfield) (NC)	6 E;RR, hwy S	660	21	
(P) Banning	1 SE;RR N	2190	52h L5 S5	80,91 oct. No sto.
Barnes (Rosamond)(NC)	12 E;rd N	2300	38	
Barstow	1.8 N;hwy S	2150	24 S6	80 oct.
Big Bear City	0.5 NW;hwy S	6850	24	
Borderland(San Ysidro)	1.5 WNW;RR W	80	19 S2	80 oct.Pole line SE.
Boron	3 N	2550	22 S1	80 oct.Poles E. Data not verif.
(N) Brown NAAS (Otay)(N)	5.5 ESE	523	60h	INACTIVE.
Buffalo Springs (Avalon)	7 NW	1560	35	On Catalina Island. PRIVATE.(NC)
Calico (Yermo)	2.3 WNW;hwy S	1921	58 S1	73 oct. Mtns N.
(N) Camp Pendleton OLF (Oceanside)	6 NNE;RR SE	75	64h L S1	NATS.
Castle OLF (San Diego)	On NW end San Clemente Isl.	163	20	(NC)
Clark's Dry Lake OLF (San Diego)(NC)	65 NE W portion of Dry Lake	450	50	
Del Mar	1.1 NNE	11	10h	
Escondido	1 W;RR,hwy N		19 S4	73, 91 oct.
Gibbs (San Diego)	7 NNE;hwy W	405	29 S4	87 oct.No sto. Poles E. NE.
Gillespie (Santee)	1 SSW;rd E	385	54h	Towers W.
Hawes (Victorville)	27.5 N;RR N	2319	56h	
Helendale (Victorville)	20 N	2508	56h	
(N) Inyokern NAF (N)	0.5 WNW;RR E	2455	72h R1	INACTIVE.
Jamacha (La Mesa)	6.8 ESE;rlv N	520	24 S1	80 oct.
La Cresta(Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data not verified.
Lakeside	1.3 W;hwy S	400	20 S1	80 oct.Pole line NE,SW.
La Mesa	2 WSW;hwy N	500	27 S4	80 oct.Pole line SSE.
Lancaster	0.5 NW;RR E	2330	22 S4	73 oct.No sto.Poles E,S.
La Pressa (La Mesa)	4 S;hwy W	275	19 S4	80 oct.
Liberty (Rosamond)	4.1 S;RR E	2300	39h	
(A) LINDBERGH (San Diego)	2 W	14	88h R2 L5 S1	91,100 oct. INACT.Rdo req.ARPT OP ENTRY.
(A) March (Riverside)(A)	8.8 SE;RR SSW	1533	70h R3 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEARING STATION.
McCormick (San Marcos)	1.5 WSW;RR NE	530	22 S4	80,91 oct.
Mirage (Victorville)	18 WNW;rd S	2865	37h	
(N) Miramar MCAS (San Diego)	9.5 N	480	60h R1 L5 S4	91,100 oct. No ben. (N)
(N) Miramar OLF (San Diego)	1 N Miramar	470	25	Hwy SE. (N) (NC)
(N) Mojave MCAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Morrow (Rialto)	1.8 S;RR N	1100	35 S5	80,91 oct.Pwr line W.
(A) Muroc AAF (A)	2 S;dry lk N	2280	70h R2 L5 S6	73,91,100 oct.JP-1,No sto.CLOSED.
National City	1.1 SSE;RR W	10	22 S4	80 oct.Poles,stack NW.
(P) Palmdale	3 NE;RR W	2521	70h R1 L5 S2	91,100 oct.
Peik (San Diego)	4.8 WNW	20	28 S4	80 oct.No sto.Twr SE.
Quartz Hill (Lancaster)	6.5 SW	2450	29 S1	80,91 oct.Data not verified.
Ramona	0.6 WNW;rd NE	1440	15 S1	80 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
(N) Ream NAAS (San Ysidro)	3.2 W	23	50h R1 L S4	91,100 oct. No sto. (N)
Riverside	2.3 WNW;riv SE	760	30 S4	80 oct.No sto.
(N) Rosedale OLF (San Diego)	6 N;RR W	400	15	(N) (NC)
Ryan (Hemet) (NC)	2.5 WSW;RR SE	1502	23	
Ryan #1 (Hemet) (NC)	4.2 NW;hwy E	1500	22	
San Bernardino	4.7 NNW;RR W	1425	28	Pole line E.
(A) San Bernardino AAF(A)	3.5 ESE;RR SW	1120	76h R1 L5 S6	62,73,91,100 oct. JP-1.
San Bernardino Co. (Daggett)	5 E;RR S	1921	64h R1 L3	
(N) San Clemente Island NAAS (N)	8 S of N end	926	50h R2 L S4	91,100 oct.B-2, obst lgts.
(N) San Diego NAS (N)	4.5 WSW	25	60h R1 L5 S6	91,100 oct. NAFC
(N) San Nicolas Island NAAS (N)	On E end Isl.	502	63	INACTIVE.
Tehachapi	1 N;RR S	3952	45 L S2	73,91 oct.Pole line SE.
Tri-City (San Bernardino)	3.3 SSE;RR S	1015	29 S4	91,80 oct.Poles SE, W.
(A) Victorville AAF (A)	6 NW;RR E	2880	74h R1 L5 S5	100 oct.
Warner Hot Springs	3 W;hwy NE	3140	35 S1	Ltd 80 oct. Trees E, S.
(N) San Diego NAS (N)(NC)	4.5 WSW	S.L.	106 L S6	87,100 oct. Ramps;haulout facs.

h-hard surfaced runways. R-radio facilities L-lighting facilities. S-servicing (see page 14) (NC)-Not charted.

LOS ANGELES 41



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS

Ⓞ : USABLE WITH CAUTION

NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BDR.

SCALE OF MILES

10 0 10 20 30

BLYTHE 42

ALL FACILITIES IN LOS ANGELES FLIGHT ADVISORY AREA

LAS VEGAS 27

PARKER 32

AGUILA 45H

ECHEVARRIA 40H

CALIF. 18 D.A

PALM SPRINGS AAF 69 H L

DESERT CENTER 38 L S

DESERT CENTER 50H

CALIF ARIZ

GARY -392' 29H

CONNER 38

TONOPAH 34 L

INDIO 242

THERMAL 30 H

SHAVERS SUMMIT 60 H

HARVEY

SALTON SEA 40

BLYTHE AAF -397' 70H

HERON 27 S

SALOME 41 L

BLYTHE 251 (116.1)

GILA BEND 257 (116.1)

PERRYVILLE 39

WHITE TANK

GREEN 5

CALIF. 4 D.A

BRAWLEY 30 S

O'CONNELL

IMPERIAL CO. 32 S

CALIF. 12 D.A

LAGUNA 50H

EL CENTRO 212 (116.1)

HOLTVILLE 28 H L S

CALEXICO 28 S

SOMERTON 30 S

YUMA 230 (116.1)

YUMA AAF -213' 65H

MARSH 40 S

DATELAN 66H

GILA BEND No. 5 37H

GILA BEND No. 6 37H

GILA BEND No. 4 37H

GILA BEND AAF -850' 62H L

WELLTON

AJO AAF 64H L S

ARIZ 1 D.A

ARIZ MEXICO

PHOENIX 326

TO CASA GRANDE

PHOENIX 43

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "S" QUADRANTS.

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

AIRPORTS LESS THAN 2500 FT. OR LENGTH HAVING UNLIGHTED RUNWAYS AND NO LIGHTS, CARRY [illegible] ON AIRPORT SYM.

E: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION

SCALE OF MILES
0 25 50

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GILA BEND (AAF)	257 (UQ)(116.1)	SBMRAZ-VDT, 166°.4	(4); 116.1
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
YUMA (AAF)	230 (UP)(116.1)	SBMRAZ-VDT,165°.5.8	(4); 116.1
CALIFORNIA			
BLYTHE (AAF)	251 (YH)(116.1)	SBMRAZ-VDT,265°.4.1	(4); 116.1
[illegible]	212(MB)(116.1)	SBMPLZ-VDT	(4);116.1
EL CENTRO NAS	317 (142.74)	CN, 320°, 3.5	(4);142.74 (7-18, & on 30 min. notice)
INDIO	242 (IN)(116.1)	BMRLZ-VDT	(3); 116.1
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aguila	1.5 NNW	2000	45h	
(A) Ajo AAF (A)	6 N;RR NE	1434	64h L3 S4	91, 100 oct.
Conner (Quartzsite)	0.3 SSW; hwy N	850	38	190' hill S.
Datelan	4 W Aztec; RR S	450	66h	
Echevarria (Wickenburg)	14.8 WSW; RR N	2360	40h	
(A) Gila Bend AAF (A)	4 S;hwy W	850	62h R1 L5	
(A) Gila Bend #4 (A)	18 SSW	1000	37h	INACTIVE.
(A) Gila Bend #5 (A)	15.3 SW	800	37h	INACTIVE.
(A) Gila Bend #6 (A)	7.7 WSW	800	37h	INACTIVE.
Laguna Landing Strip (Laguna)	6.5 NE	500	50h	
Marsh (Yuma)	0.7 E;RR W	130	40 S1	80 oct.
Parker	1.4 ENE;RR W,S	430	32 S2	No fuel, Fld rough.
Salome (NC)	0.7 S;hwy N	1876	45	15' poles NW.
★ Salome Int. 27B, LA-PH	13.5 S	1354	41 L3	Mtns 7 mi E, 3 mi W.
Sky Ranch (Wickenburg) (NC)	0.8 N;riv E	2000	24	Trees SSE.
Smiley (Wellton)(NC)	13 E;RR S	250	26	Poles SW, NE.
Somerton	3 ENE; RR W	250	30 S3	80 oct. No sto.
★ Tonopah Int. 31 LA-PH	5 NNE Wintersburg	1102	34 L2	
Wellton	0.5 NW; RR S	225	24 S2	73,80 oct.
(A) Yuma AAF (A)	4.5 SSE;RR N	213	65h R1	INACTIVE.
CALIFORNIA				
(A) Blythe AAF (A)	7 W;hwy S	397	70h R1	INACTIVE.
Borego Hotel OLF (San Diego)(NC)	65 ENE	409	25	
Brawley	1.3 NE; RR W	120	30 S6	80 oct. Poles SE,E.
Calexico	1.2 W;riv N	0	28 S6	80,91 oct. Data not verified.
Calipatria	0.5 W;hwy adj S.rd E	180	49 S3	No fuel or sto. 35' poles all zones.
Clark's Dry Lake OLF (San Diego)	65 NE	450	50	On W portion Dry Lake (NC)
Coyote Wells OLF-North (San Diego)	13 NNE	300	26	(NC)
Coyote Wells OLF-South (San Diego)	3 E	300	25	(NC)
Desert Center	2.5 NE;rd NW	555	50h	
★ Desert Center Int. 17, LA-PH	1 ENE; hwy S, W	894	38 L3 S1	80 oct. (truck)
(N) EL CENTRO NAS (N)	7 WNW;RR S	-43	69h R2 L5 S4	91,100 oct. No sto.
Gary (Blythe)	5 NNW;RR N	392	29h	
Harvey (Blythe)	13.5 W; hwy S	565	23 S4	73 oct. No sto.
Heron (Blythe)	1.2 E;riv E	265	27 S1	73 oct. Poles N.
Holtville	7.5 NE; canal W	58	60h	
Imperial County (Imperial)	1 S; hwy E	-69	32 L4 S4	80,91 oct. Poles SE, No bcn. Lgts prior req.
Indio	0.8 NNE;RR SW	-12	34 S4	80 oct. No sto. Pwr line W.
(N) Jacumba Hot Springs OLF (N)	1 E; hwy N	2900	25	
(N) Ocotillo OLF (San Diego)(N) (NC)	37 WNW of Brawley	160	30	Creek N.
O'Connell Brothers (Brawley)	0.3 S;hwy W		17 S6	80 oct. Data not verified.
(A,N) PALM SPRINGS AAF (A)	2.5 E; RR NE	448	69h L5	INACTIVE.
Rice	2.2 ESE; RR N	832	55h	
Salton Sea	NW Westmoreland	-152	40	Portable rnwy lgts on req.
Shavers Summit (Indio)	29.5 ESE; hwy S	1690	60h	Mtns N,S,E.
Thermal	1.8 SW; hwy W	-117	50h	
Twentynine Palms	4.8 N	1768	40h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 1W) (NC)-Not charted.

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COCHISE (Int)	272(CJ)(116.1)	SBMRAZ-VDT,259°,2.3	(4); 116.1
DAVIS MONTHAN FIELD (Tucson)	396 (126.18) (118.3)	C	(3); 116.1,126.18,118.3
HILLTOP FM	(-)	FM, 79°, 34.4	Cochise
LITCHFIELD PARK NAP	290 (142.74)	CN	(3); 142.74 (0730 to sunset)
LUKE (Phoenix)(Army)	219(DRM)(118.5)	BMRLZ	(3)
Luke Field	396 (126.18)	CA, 163°,8.2	(3); 126.18
MESA FM	(-)	FM, 243°, 18	Phoenix
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
PHOENIX (Sky Harbor Airport)	326(PH)(116.1)	SBMRAZ-VDT,261°,2.3	(4); 116.1
RED ROCK FM	(- - - -)	FM, 307°,42.8	Tucson
SKY HARBOR AIRPORT (Phoenix)	278 (126.18) (118.5)	C	(4); 116.1,140.1,126.18,118.5,131.9
TUCSON	338(TZ)(116.1)	SBRAZ-VDT	(4); 116.1
VAIL FM	(- -)	FM, 106°, 1.5	Tucson
WILLIAMS (Chandler)(Army)	236 (DKU)	BMRLZ	(3)
Williams Field	201 (126.18)	CA; 120°, 4.8	(3); 126.18

NEW MEXICO

RODEO (Int)	254(RH)(116.1)	BMRLZ-VDT,28° 0	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Columns Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

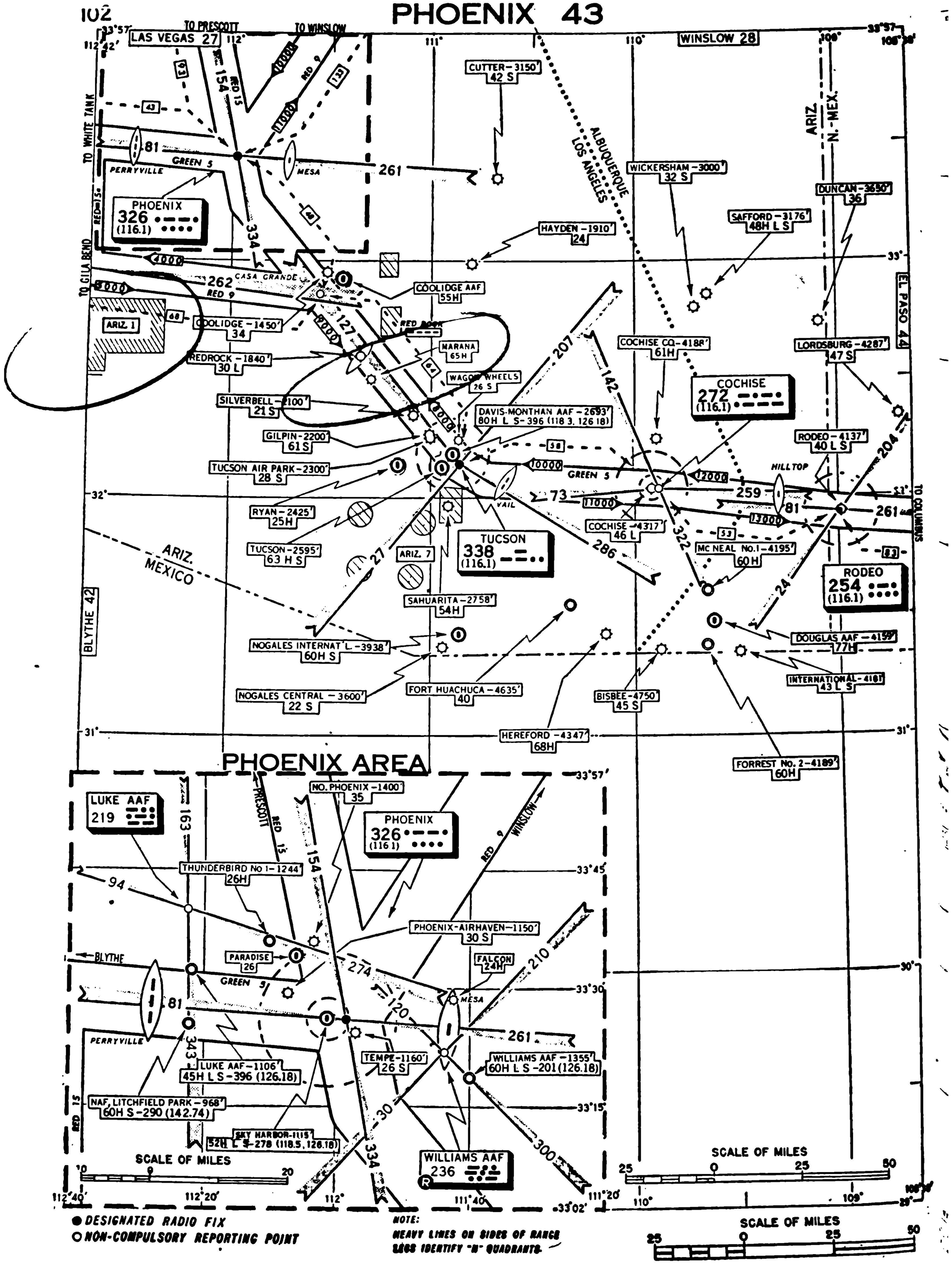
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Air-Topia (Phoenix)(NC)	6.2 SW;RR N	1050	26	
Bisbee	6.4 SSE;RR W	4750	45 L S4	80 oct.Poles W.Port, rnwy lgts prior req.
Bowie (NC)	1.9 W;RR N	3800	20	Pole line NE,W.
Clifton-Greenlee (Clifton)(NC)	8.7 SSE;hwy W	3800	35	
★ Cochise Int,T-3,FH-EO	6 S;hwy E	4317	46 R1 L3	
(P) Cochise County (Willcox)	3.8 W;road N	4188	61h	
Coolidge Airpark	1.7 S;RR E	1450	34	
(H) " NAP (A)	6.4 SE	1587	55h	INACTIVE.
Flying Field	1.5 WSW;RR E	1450	21 S1	80 oct.Pole line E.
Cutter (Globe)	6.8 ESE;RR N	3150	42 S4	80 oct.
(A) DAVIS-MONTHAN (Tucson)(A)	5 SE;RR SW	2693	80h R2 L5 S6	73-100 oct.JP-1.
(A) Douglas AAP (A)	8.5 NNW	4159	77h	INACTIVE.Twrs E.
Duncan	1 NE	3650	36	Pole line W.Race track W.
Falcon (Trees) (NC)	7.3 NE;hwy S	1332	24h	
Florence (NC)	5 SSE;hwy E	1500	45	
(A) Forrest #2 (Douglas)(A)	6.4 WNW	4189	60h	INACTIVE.
Ft. Apache (White River)(NC)	2.6 SSW;riv S	5200	34	Trees S.
(A) Fort Huachuca (A)	4 E;RR NW	4635	40	
Gilpin (Tucson)	4.2 NW;RR W	2200	61 L5 S6	80,91 oct.Poles E,SW.
Hayden	1.2 S;hwy E	1910	24	
Hereford	2.5 WSW;rd N	4347	68h	Twr SE.
INTERNATIONAL (Douglas)	3.3 E;hwy W	4181	43 L4 S4	80,91 oct.Fld lgts prior req.ARPT OF ENTRY.
Litchfield (Litchfield Park)(NC)	0.5 NW;canal S	1062	23	Trees SW.
(H) Litchfield Park NAP (N)	4.8 S;riv E	968	60h R1 S1	100 oct.
(A) Luke (Phoenix)(A)	18 WNW	1106	45h R2 L5 S6	91,100 oct.JP-1.
(A) McNeil #1 (Douglas)(A)	19 NNW	4195	60h	INACTIVE.
Marana	6 NW;hwy NE	1891	65h	
Mesa Airpark	1.4 W;RR SE	1238	27 S1	80 oct.Pole line E.
Nogales Central	3 N;RR E	3600	22 S6	80 oct.No storage.
(P) " International	8 NE;hwy N	3938	60h L5 S4	73,80,91 oct.All lgts prior req.ARPT OF ENTRY.
North Phoenix (Cactus)	0.5 E;hwy W	1400	35	
Paradise (Glendale)	5 ENE;canal S	1256	26 S2	No fuel.Trees S.
Phoenix Airhaven	3.9 WNW;RR W	1150	30 S6	80 oct.No sto.Poles SW,NE.
★ Redrock Int,TB,FH-EO	2.3 NW;RR E	1840	30 L4	
Ryan (Tucson)	13 WSW; road S	2425	25h	Low dike S & E corner.
Safford	4.5 ENE;riv S	3176	48h L5 S5	80 oct.
Saharita Flight Strip	2.2 E;hwy W	2758	54h	
Sells (NC)	2 NW;road E	2380	30	
Silverbell (Tucson)	11.2 NW;RR E	2100	21 S1	80 oct.
SKY HARBOR (Phoenix)	2.8 ESE;RR N	1115	52h R2 L5 S6	73,80,91,100 oct.
Superior (NC)	2 WSW;hwy N	2600	15	Pole line NE
Tempe	1.2 SW;RR E	1160	26 S6	80 oct.Poles E,trees W.
Three Point (Casa Grande)(NC)	1.5 NNW;RR SW	1400	32	
Thunderbird #1 (Phoenix)	12 NW	1244	26b	
Thunderbird #2 (Phoenix)(NC)	13 NE;rd W	1500	25	Allway: 2500 x 2000'.
Toltec	0.4 NNW;RR W	1500	26	Poles SSW,SW.
(P) Tucson	7 S;RR W	2595	63h S6	80,91 oct.
Airpark	3.1 NW;RR E	2300	28 S1	Ltd 80 oct.
Wagon Wheels Ranch (Tucson)	5.5 ENE	2200	26 S6	80 oct.No sto.Poles S,SE.
Wickersham (Safford)	2.5 S;RR NE	3000	32 S6	80 oct.
Willcox (NC)	0.9 WNW;hwy E	4186	36	75' trees SE;bldgs NE.
(A) Williams (Chandler)(A)	10 E	1355	60h R2 L5 S6	73,91,100 oct.JP-1.
→ Kinsley Ranch (Amado)	1.6 NNW;riv,RR E	3100	31	
→ Mesa (NC)	1.8 NNW;hwy E	1100	18	Pwr line E,W;bldgs E;canal embankment W.

NEW MEXICO

Lordsburg	1 SE;RR N	4287	47 S1	73 oct.
★ Rodeo Int,2GA,FH-EO	7.3 NNE;RR SE	4137	40 R1 L3 S1	Ltd 73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

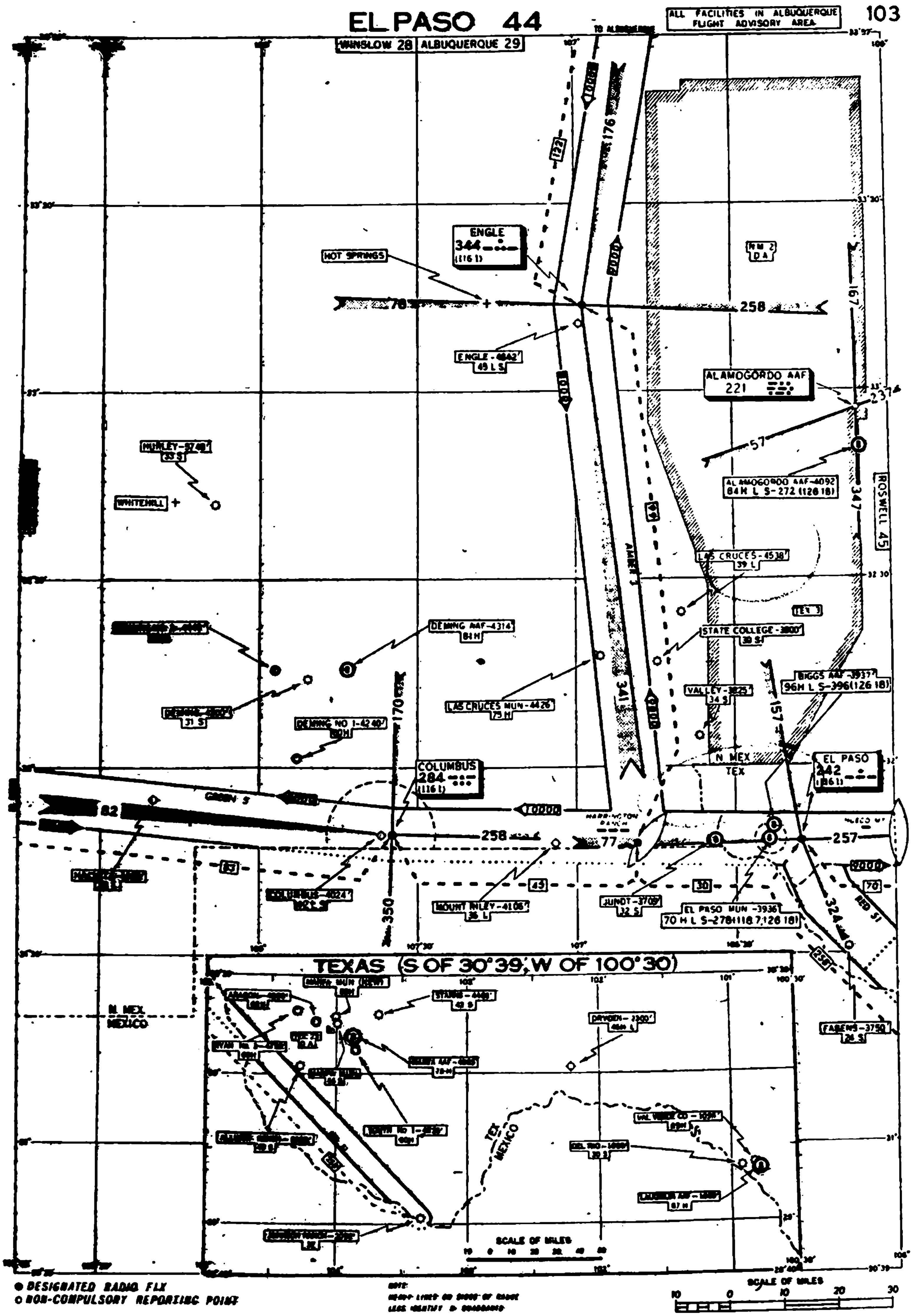
PHOENIX 43



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

EL PASO 44



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF CHART
LESS RELATIVE TO ORIENTATION

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMOGORDO (Army)	221 (DOR)	BMRLZ	(3).4220: 126.18
Alamogordo AAF	272 (126.18)	CA(ILS): 167°,6.5	(3):126.18 (730-1930 Mon - Fri (Sat & Sun 730-1630
COLUMBUS (Int.)	284 (BS)(116.1)	SBMRAZ-VDT:262°,1.9	(4): 116.1
ENGLE (Int.)	344(EX)(116.1)	SBRAZ-VDT:176°,2.9	(4): 116.1
HARRINGTON RANCH PM	(- - -)	PM, 257°, 28.5	El Paso, Texas
TEXAS			
BIGGS FIELD (El Paso)	396 (126.18)	CA (ILS)	(3): 126.18
EL PASO	242(EO)(116.1)	SBRAZ-VDT	(4): 116.1
El Paso Mun. Airport	278 (126.18)(118.7)	AC; 257°, 4.9	(4):131.9,142.74,118.7,126.18
HUECO MOUNTAIN PM	(-)	PM, 77°, 18	El Paso

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ALAMOGORDO AAF, N. MEX.	109.9		155° Mag.	IM ·····(.22)	MM (1.00)	OM --(4.48)
					MNK	OMK
[redacted]	109.9		213° Mag.	IM (.26)	LOM ·····(.85)	OM --(3.50)
					MNK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.;
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Alamogordo AAF (A)	8.5 SW; hwy S	4292	94h R3 L5 S4	73,100 oct.
★ Columbus Int,34,PH-EO	0.6 ESE; hwy N	4024	42 R1 L3 S1	73 oct.
(A) Deming AAF (A)	2 ESE; hwy W	4314	81h	INACTIVE.
" Airpark	6 WSW; RR N	4300	31 S4	73 oct. No sto.
(A) " #1 (South)(A)	19.5 SSW	4240	60h	Cattle on fld. INACTIVE.
(A) " #2 (Center) (A)	11.5 W; hwy S	4440	60h	INACTIVE.
★ Engle Int,10,EC-PU	2.6 E; hwy S	4342	45 R1 L3 S1	73,91 oct.
★ Hachita Int,29B,PH-EO	0.8 W; RR N	4498	38 L3	Pole line N
Hot Springs	7.4 N; hwy E	4500	75 S4	80 oct. Rnwy data not verified.
Hurley	0.8 W; RR E	5748	33 S4	73 oct. No sto.
Jundt (Strauss)	8.8 ESE; hwy NE	3709	32 S6	73,80 oct. No sto. Trees E.
Las Cruces (NC)	1 NE; hwy N	3900	35	
" mun.	8.5 W; hwy S	4426	75h	Cattle on fld.
" 4,EO-PU	9.5 NE; hwy S	4538	39 L3	Pwr line S.Mtn E.
★ Mt. Riley Int,37,PH-EO	1.8 SE; PR N	4106	36 L2	
Silver City (NC)	11.5 SE; hwy E	5400	54	
State College (Mesilla Park)	1.2 E; RR W	3800	30 S6	73 oct. No sto.
Tularosa (NC)	2.2 N; RR W	4550	25	Use strips only.
Valley (Berino)	1 ENE; hwy W	3825	34 S1	73 oct. 50' hi-line E.
Whitehill (Silver City)	4 SSE RR W	5800	30	Pole line N; Rnwy data not verified.
TEXAS				
Allison Ranch (Marfa)	23.4 SW; hwy E	5100	49 S1	73 oct.
(A) Aragon #5 (Marfa)(A)	9 WNW;RR,hwy N	4220	60h	INACTIVE.
(A) Biggs (El Paso)(A)	6 NE; RR W	3937	96h R3 L5 S6	73,91,100 oct. JP-1. No range.
Blair Ranch (Marathon)(NC)	23.5 SSW; hwy E	4180	24	PRIVATE.
Castolon (NC)	0.8 NNW; riv SW	2300	16	High butte 1/2 mi E.
Cox Ranch (Longfellow)(NC)	8.4 WSW; RR S	3700	48	PRIVATE.
Decker Ranch (Candelaria)(NC)	11.5 N	3650	29	PRIVATE.
Del Rio	1.5 WNW; hwy E	1000	30 S4	80 oct. No sto. Poles N; fence NW.
Dryden Airdrome (Dryden) (NC)	1 W	2159	18	
★ Dryden Int,29,EO-JI	5.7 W; hwy N	2300	45h L3	
(N) EL PASO MUN.	4.8 ENE; RR SW	3936	70h R2 L5 S1	73,91,100 oct.No sto. ARPT OF ENTRY.
Fabens	0.7 NNE; RR SW	3750	24 S2	73 oct. Ltd sto.
Johnson Ranch (Castolon)	10.7 SE; riv SW	2092	37	
(A) Laughlin (Del Rio)(A)	7 E; hwy N	1069	67h	INACTIVE.
Marathon (NC)	0.7 SE; RR N	4039	44 S1	80 oct. Cattle on fld.
(A) Marfa AAF (A)	9 ESE; RR N	4885	75h	INACTIVE.
" Mun. (new)	4 N; hwy E	4835	53h	
" Mun. (old)	2 NE; hwy,RR S	4780	44 S4	73 oct. No sto. Pole line S, SW.
Presidio (NC)	4 N; hwy W	2850	48	NOT MAINTAINED.
" Air Strip (NC)	0.8 NE; RR S	2580	21	PRIVATE.
(A) Ryan #3 (Marfa)(A)	19 WNW; RR NE	4750	60h	INACTIVE.
Sanderson Landing Strip (NC)	2 W; RR N	2900	24	PRIVATE.
(A) South #1 (Marfa)(A)	15 SE	4825	60h	INACTIVE.
Starns (Alpine)	2.1 NW; RR E	4481	42 S6	80 oct. No sto.
Terlingua (NC)	2 E; hwy SW	2700	36	
Val Verde County (Del Rio)	4.5 ENE; RR S	1094	49h	
Yoas Ranch (Longfellow)(NC)	6.5 WSW; RR N	3675	36	PRIVATE. Pole line NW.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 11) (NC)-Not charted.

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CARLSBAD	311 (DKB)	MRLW;322°, 3.5	
ROSWELL (Army)	305 (DKH)	SBMRAZ	(3);126.18
Roswell AAP	396 (126.18)	CA; 255°, 3.6	(3);126.18
TEXAS			
GUADALUPE PASS	(116.1)	VP	(4); 116.1
GUADALUPE PASS FM	(-)	FM, 79°, 17.4	Salt Flat
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso
SALT FLAT (Int.)	335(DN)(116.1)	BMRLPZ-VDT;162°,2:7	(; 116.1

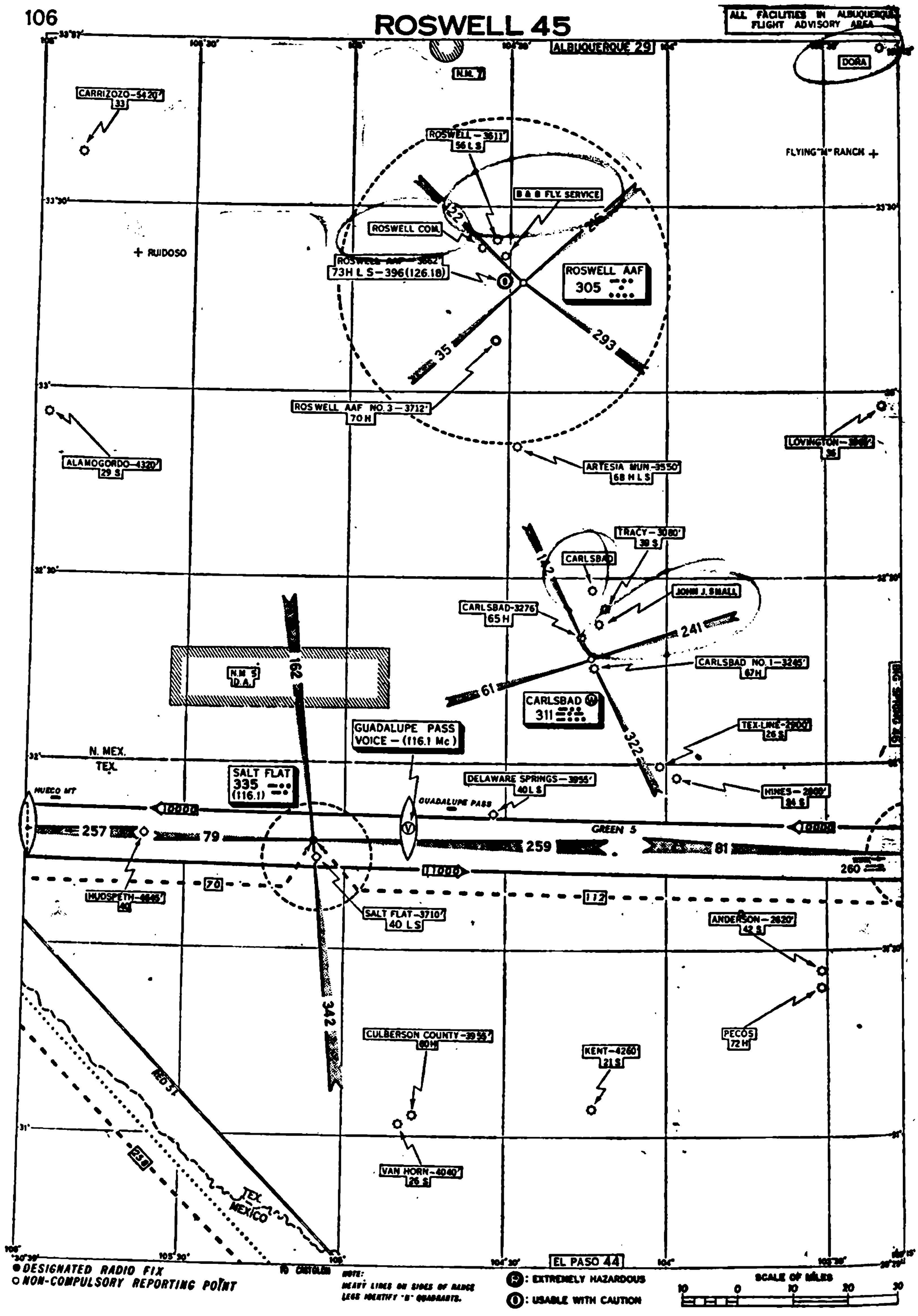
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

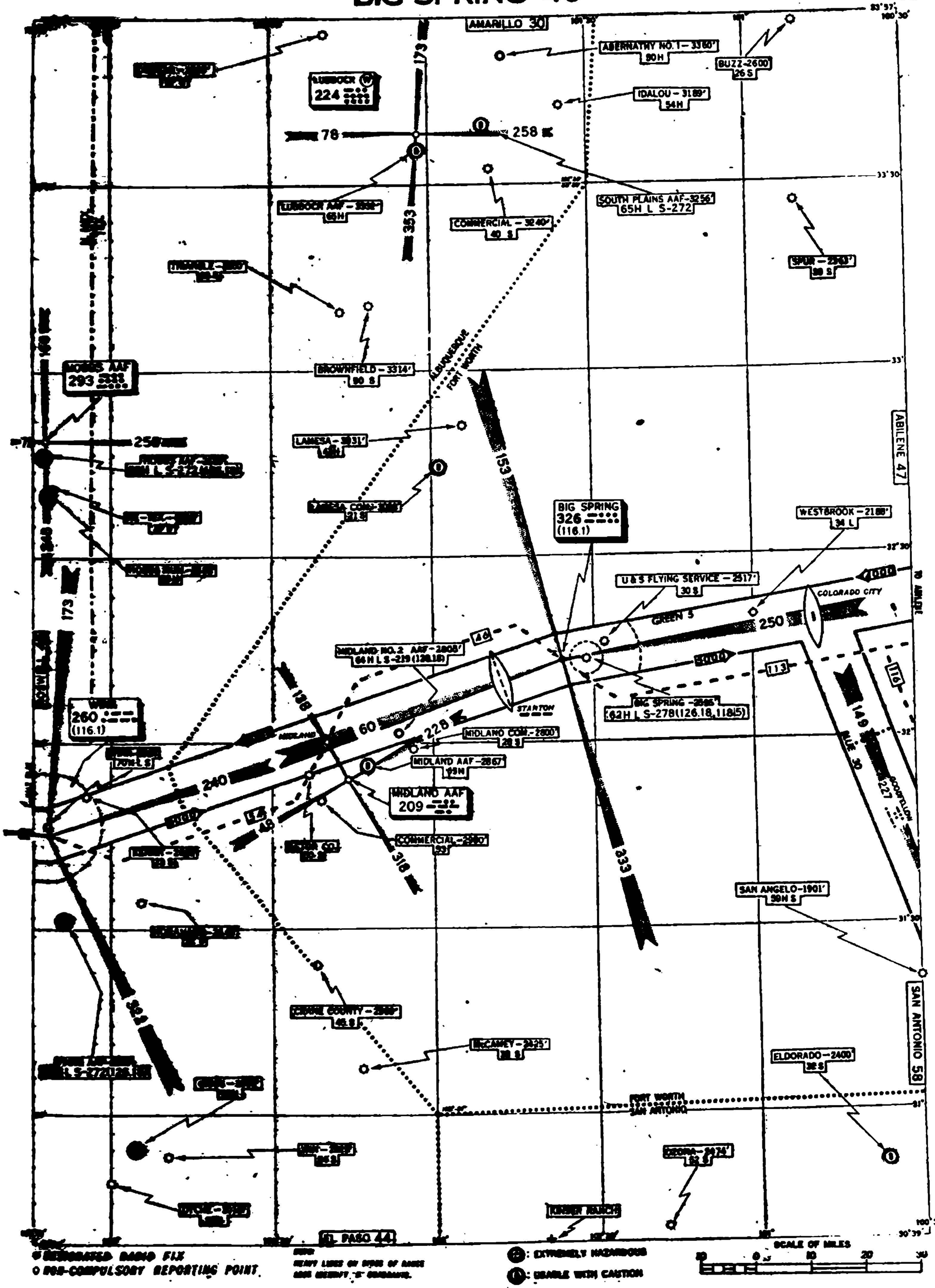
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamogordo	2.4 N;hwy W	4320	29 S1	73 oct.Pole line ESE.
(P) Artesia Mun.	4.2 W;rd S	3550	69h L5 S1	73-91 oct.
CARLSBAD, MUN.	6.1 SSW;hwy E	3276	65h	
" #1	11 S;hwy 3 W	3245	67h	
Carrizozo	0.6 N;hwy S	5420	33	
Dora	1.3 E;hwy W	4000	27 S1	73 oct. Pole line N.
Flying "M" Ranch(Milnesand)	0.4 NNW;hwy E	4360	20 S2	80 oct. Data unver.
John J.Small (Carlsbad)	3.5 SSE;RR NE	3150	27 S1	73 oct.
Lovington	0.8 E;hwy S	3985	36	Pole line S,SE,SW.
Parker (Ruidoso)(NC)	8.2 NNE;rd N	7200	36	Cattle on fld.
ROSWELL	1.6 WNW;RR E	3611	56 L5 S6	73 oct.Fld lgts prior req.
(A) Roswell AAF (A)	6.5 S	3662	73h R2 L5 S6	91,100 oct. No sto.
(A) " AAF #3 (A)	18 S	3712	70h	INACTIVE.
Ruidoso Flying Ser.	2 W	6900	51 S2	80 oct. Data not verified.
Tracy (Carlsbad)	2 ENE;hwy S	3080	30 S6	80 oct.
B&B Flying Ser.(Roswell)	2 S;RR E	3600	32 S2	80 oct.
Carlsbad	3 N;RR E	3100	38 S2	80 oct.,
Roswell Com.	4 W;hwy W	3700	33	Windmill SW.
TEXAS				
Anderson (Pecos)	1.8 NNW;RR W	2620	42 S6	80 oct.Poles sur fld.
(P) Culberson Co. (Van Horn)	3.5 ENE;RR S	3955	60h	
★ Delaware Sprgs Int.11, EO-FV	16.8 E Pine Springs	3955	40 L3 S1	91 oct. Pole line SSE.
Port Hancock (NC)	0.7 SE;RR N	3565	24	Pole line N.
Rines (Red Bluff Lake)	5.5 NNW;RR W	2800	24 S1	80 oct.
★ Hudspeth Int,4,EO-FV	48.5E ElPaso	4645	40 L1	
Kent	0.6 WNW;RR S	4260	21	Pole line NE,SW.PRIVATE.
Pecos	2.2 SSW;RR W	2617	72h	
★ Salt Flat Int,8A,EO-FV	80 E El Paso	3710	40 R1 L3 S1	80 oct;91 oct in emerg.
Sierra Blanca (NC)	2.8 ESE;hwy N	4450	21	Pole line N.
Tex-Line (Orla)	13.7 NNW;hwy W	2900	26 S1	Ltd 80 oct.
Van Horn	0.8 SE;RR N	4040	26 S1	80 oct. Poles NW.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 121) (NC)-Not charted.

ROSWELL 45


ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA
ALBUQUERQUE 29
DORA
N.M. 7
CARRIZOZO-5420'
33
ROSWELL-3611'
56 L S
FLYING "M" RANCH
B & B FLY. SERVICE
ROSWELL COM.
RUIDOSO
ROSWELL AAF
73H L S-396(126.18)
ROSWELL AAF
305
35
293
ROSWELL AAF NO. 3-3712'
70 H
ALAMOGORDO-4320'
29 S
ARTESIA MUN.-3550'
68 H L S
LOVINGTON-3862'
36
TRACY-3080'
39 S
CARLSBAD
JOHN J. SMALL
CARLSBAD-3276'
65 H
241
CARLSBAD NO. 1-3245'
67 H
61
N.M. S D.A.
162
CARLSBAD
311
322
GUADALUPE PASS
VOICE-(116.1 Mc)
TEX-LINE-2900'
26 S
N. MEX.
TEX.
SALT FLAT
335
(116.1)
DELAWARE SPRINGS-3955'
40 L S
MINES-2809'
24 S
HUECO MT
GUADALUPE PASS
GREEN 5
257
79
259
81
260
70
112
HUDSPETH-4645'
SALT FLAT-3710'
40 L S
ANDERSON-2620'
42 S
342
CULBERSON COUNTY-3955'
60 H
KENT-4260'
21 S
PECOS
72 H
VAN HORN-4040'
26 S
250
TEX.
MEXICO
EL PASO 44
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

BIG SPRING 46



BIG SPRING 46

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
HOBBS (Army)	293 (DHB)	BMRLZ	(3)
Hobbs AAF	272 (126.18)	CA; 168°, 2.8	(3); 126.18 (7-23)
TEXAS			
BIG SPRING	326(BZ)(116.1)	SBRAZ-VDT	(4); 116.1
Big Spring Arpt.	278(126.18)	C; 70°, 3.9	(4); 126.18. 131.9.Tr.&gds.118.5 mcs.
COLORADO CITY FM	(-)	FM, 70°, 47	Big Spring
LUBBOCK (AAF)	224 (DHH)	MRLWZ,173°,3.9	
MIDLAND (Army)	209 (DON)	BMRLZ;48°,3.8-AAF	(3); 126.18
Midland No. 2	219 (126.18)	CA	(4); 140.58
PYOTE AAF	272 (126.18)	CA	(3); 126.18
SOUTH PLAINS AAF(Lubbock)	272	CA	(3) (8-22)
STANTON FM	(- - -)	FM, 240°, 12	Big Spring
WINK	260(WP)(116.1)	SBRAZ-VDT,353°,1.2	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Continental (Jal)(NC)	0.7 W;hwy E	3100	20	
(A) HOBBS AAF (A)	8 NW;RR NE	3689	88h R2 L5 S4	91,100 oct.
HOBBS MUN.	5 W; hwy N	3658	50h L5	All lgts prior req.
(P) Me-Tex (Hobbs)	4.5 W;hwy N	3700	35 S6	80,87 oct.Pole line N, W, NW.
TEXAS				
(A) Abernathy #1 (A)	5 ENE	3346	50h	INACTIVE.
BIG SPRING	3.3 WSW;RR N	2595	62h R2 L5 S6	80,91,100 oct.
Brownfield	5 E;hwy N	3314	50 S2	73 oct.Pole line N, NE.
Buzz (Roaring Sprgs)	2.3 NNE;hwy W	2600	26 S1	73 oct. Pole line S.
Commercial (Lubbock)	3.2 SE;bet hwys	3240	40 S6	73,80 oct.No sto.Use strips.
Commercial (Odessa)	1.9 E;RR N	2980	53 S4	Pole line NE,NNE.
Crane Co. (Crane)	1 NNW;hwy E	2900	45 S1	73 oct. Hi-line S.
Duggan (Littlefield)	1.2 S;RR NE	3550	37 S2	73,80 oct.Pwrline E,NE,SE.
Dyche (Ft. Stockton)	9 SW;RR E	3010	26h	Allway area: 4000 x 4000'.
Ector County (Odessa)	5 NNW;hwy W	2900	50 S2	80 oct.
Eldorado	1 W;RR E	2400	32 S1	80 oct.Poles E;livestock on fld.
Gibbs (Ft. Stockton)	2.7 NNW	3010	25h	Allway area: 4800 x 5000'.
Idalou	5.5 ENE	3189	54h	
Iraan (NC)	5 NW	2300	26	
Kermit	1.3 E;RR W	2800	23 S1	80 oct.
Kinser Ranch (Ozona)	25 W;riv W	2474	24 S1	80 oct.PRIV. Data not verified.
Lamesa	8.9 NNE;hwy E	3031	43h	
Lamesa Commercial	1.8 WNW;hwy S	3000	21 S1	73 oct. Pole line SSE.
Levelland (NC)	2 S;hwy W	3550	25	Pole line NW, SW.
(A) Lubbock AAF (A)	9 W;RR S	3332	65h	INACTIVE.
McCamey	0.8 SW;RR N	2425	38 S6	80 oct.Hi-line SSE.
(A) Midland AAF (A)	9.5 WSW;RR S	2867	65h R1	INACTIVE.
Midland Commercial	1.1 SSE;RR N	2800	28 S4	80 oct.No sto.Rnwy data unverif.
(A,N) Midland #2 (A)	3 NW;rd E	2805	64h R1 L5 S4	91,100 oct.JP-1. No sto.
Monahans	1.2 SW;RR N	2643	32 S2	80 oct.Pole line SSW.
Ozona	4.9 WSW;hwy N	2474	52 S1	80 oct.
(A) Pyote AAF (A)	1 SW;RR N	2612	85h R1 L5 S6	91,100 oct. No sto.
Rita Santa (NC)	0.5 S;RR N	2800	40	Obsts sur fld.
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S2	80,91 oct.
(A) SOUTH PLAINS AAF (Lubbock)	5.5 NNE;RR W	3256	65h R1 L5 S6	73,91,100 oct.
Spur	2.2 S;RR N	2363	28 S4	73 oct.
Triangle (Brownfield)	1.8 SSW;RR NW	3200	20 S2	73 oct.
U & S Flying Service (Big Spring)	1.5 N;hwy S	2517	30 S6	80 oct.
West Brook Int,32,EO-FV	1.3 S;RR N	2188	34 L3	Pole line N, S.
Win (Ft. Stockton)	3.2 E;hwy N	2925	54 S6	80 oct.
Wink	3.6 WNW;rd SE	2824	70h R1 L5 S2	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page14) (NC)-Not charted.

RADIO AIDS — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ABILENE	379(AP)(116.1)	SBMRAZ-VDT	(4): 116.1
Abilene Air Terminal	278 (126.18)	C; 180°, 2.3	(4): 116.1,140.1,126.18, 131.9
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°, 2	(4): 116.1
HARPERSVILLE (Int.)	284 (HV)(116.1)	MRVT	(4): 116.1
SHEPPARD/KELL FLD. AFT.(Wichita Falls)	201 (126.18)	CA	(4): 126.18
WICHITA FALLS (Sheppard/Kell Fld.Arpt)	239 (WF)(116.1)	SBMRAZ-VDT, 301°, 1.9	(4): 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5,kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

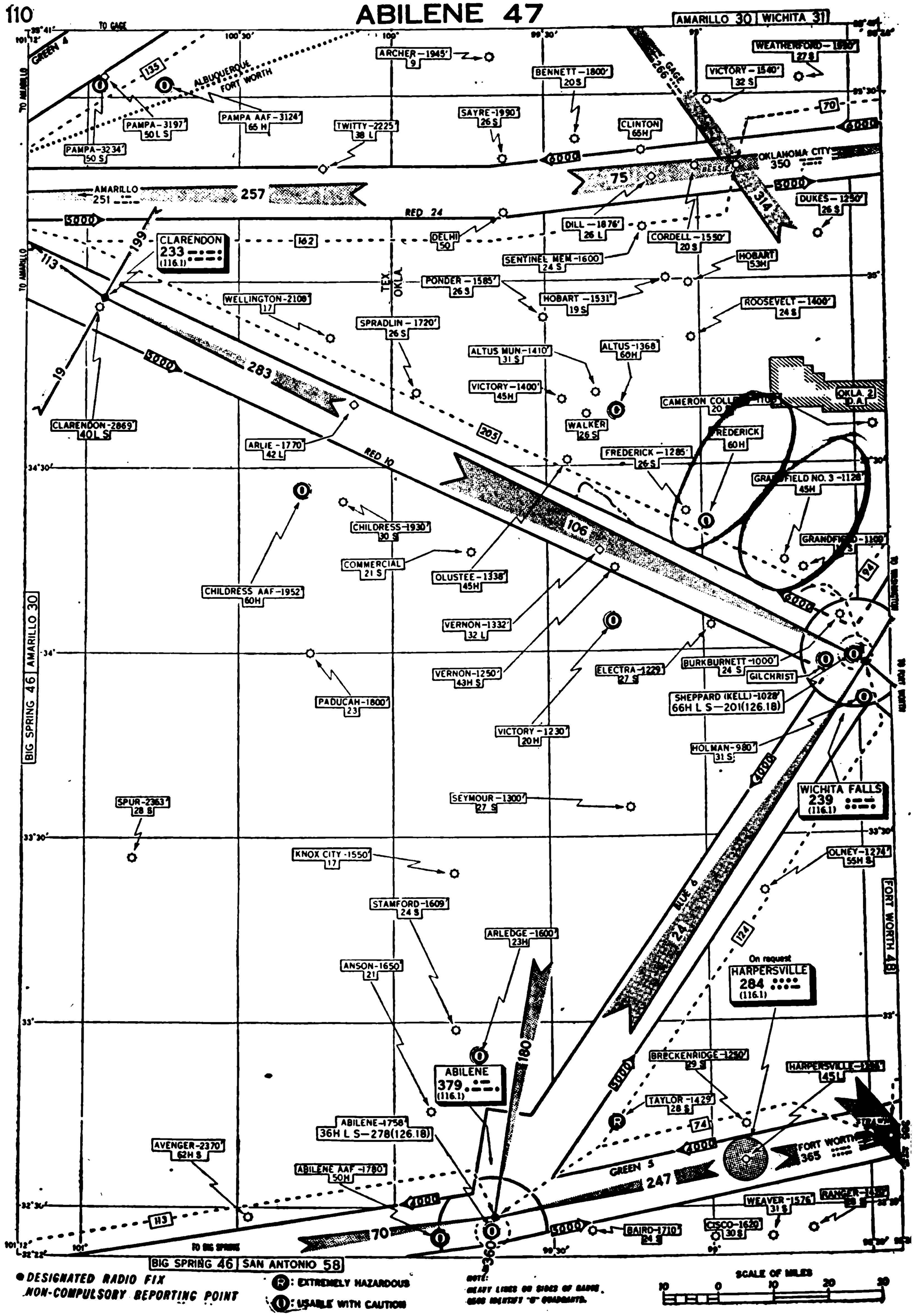
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Altus	3.4 NNE;hwy S	1368	60h	
Altus, mun.	4.2 N;RR W	1410	31 S6	73, 80 oct. Pole lines W.
Archer (Cheyenne)	1.2 SW;hwy E	1945	9 S4	No fuel.
Bennett (Elk City)	2 SSE;RR NE	1800	20 S1	73 oct.Pole line W. Lgt scft only.
Cameron College (Lawton)	2.5 W;RR N	1108	20 S4	80 oct.
Clinton	17 SW;hwy E	1932	65h	
Crandall	1.3 NW;RR E	1550	20 S1	80 oct.
Delhi	2.5 ENE;hwy SW	1937	50	
★ Dill Int, 14, AQ-LS	0.5 NW;hwy W	1876	26 L3	Pole line W, E.
Duma (Carnegie)	1 NNW;riv S	1250	26 S1	80 oct. Pole line S.
Frederick, mun	2.3 WSW; RR SE	1285	26 S6	73 oct.
Frederick	3.5 SSE	1233	60h	
Grandfield	1.2 SE;RR N	1100	13 S1	73 oct.
Grandfield #3	3.1 W; RR NE	1128	45h	
Haddock (Brick)	1.4 SW; RR N	2017	34 S1	80 oct. Pole line N, NW.
(P) Hobart	3.8 SE;RR N	1583	53h	
Hobart, mun.	1.5 SW; RR NE	1531	19 S6	73 oct.
Olustee (Altus)	10 SE; riv E	1338	45h	
Ponder (Mangum)	1.6 N;hwy S	1585	26 S2	73, 80 oct.
Roosevelt	0.5 NW;rd N	1400	24 S1	80 oct. Pwr line W.
Sayre	2.3 N;hwy W	1990	26 S4	80 oct.
Sentinel Memorial	0.8 SSW; RR W	1600	24 S1	73 oct.
Spradlin (Hollis)	1 N; hwy S	1720	26 S2	80 oct.
Victory (Altus)	7.2 NW; riv E	1400	45h	
Walker (Altus)	1.6 W; RR E	1400	26 S4	80 oct. Pole line N.
Weatherford	2.7 ENE; RR S	1550	27 S2	80 oct.

TEXAS

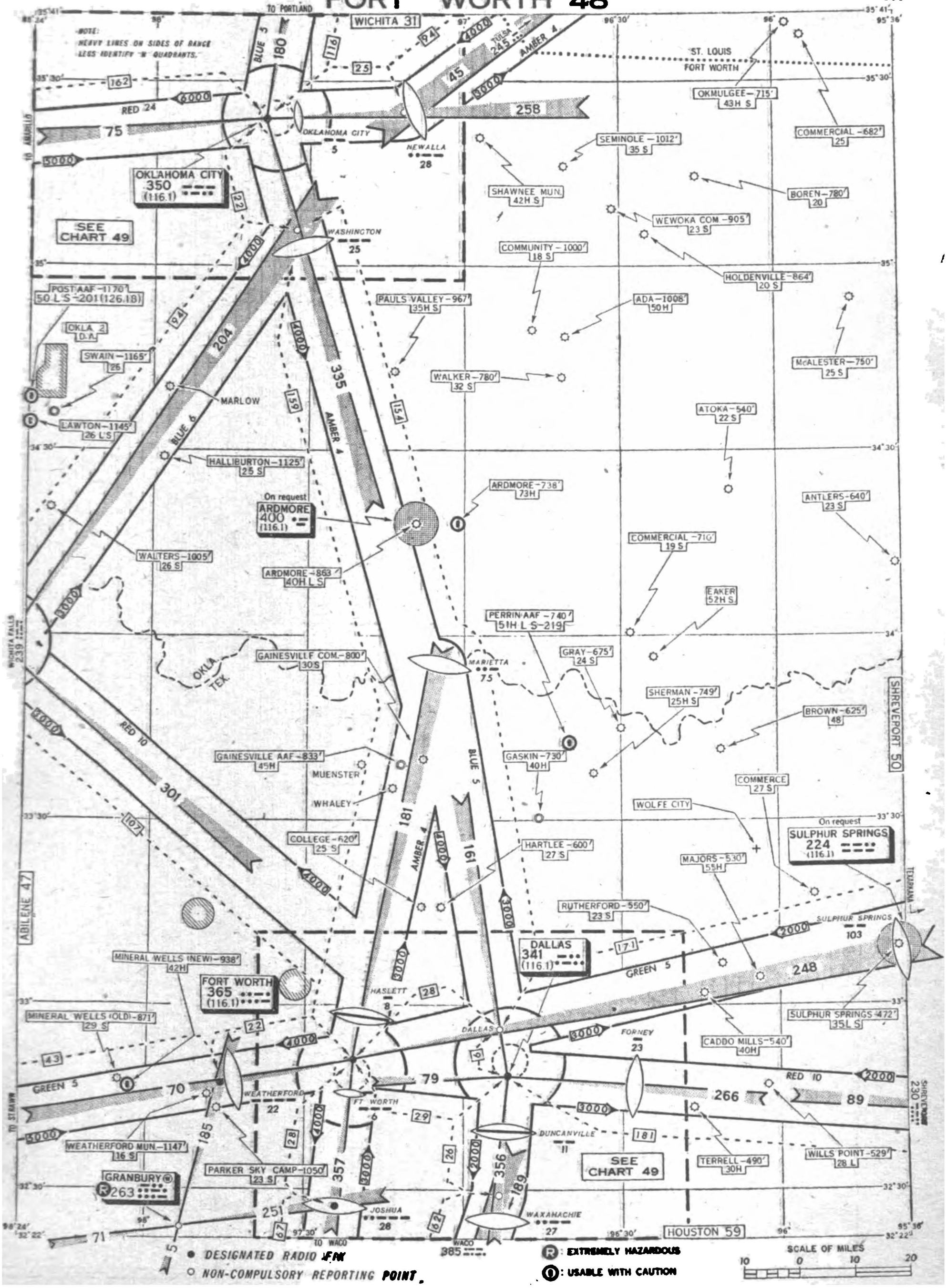
ABILENE AIR TERMINAL	2.8 ESE; RR N	1758	36h R2 L5 S6	73,80,91,100 oct.
(A) Abilene AAF (A)	7 WSW; hwy N	1780	50h	INACTIVE.
Anson	0.8 ENE; RR W	1650	21	
Arledge (Stamford)	5 SE; RR SW	1600	23h	Pole line S.
★ Arlie Int, 9, AQ-FV	3.8 SW; hwy SE	1770	42 L3	
(P) Avenger,(Sweetwater)	3.5 W; RR S	2370	62h L5 S6	80, 91 oct.
Baird	3.1 NNE; hwy W	1710	24 S6	73, 80 oct.
Breckenridge	2.5 S; RR E	1250	29 S6	80 oct.
Burkburnett	1 SE; RR SW	1000	24 S2	80 oct. Poles E.
Childress	3.2 ESE; RR NE	1930	30 S4	73, 80 oct.Pole line surrounds fld.
(A) Childress AAF (A)	5.2 W; RR N	1952	60h	INACTIVE.
Cisco	2.5 NNW; lake 2 N	1420	30 S6	73 oct.
Clarendon 4, AQ-FV	3.8 W; RR NE	2869	40 R1 L3 S6	80, 91 oct.
Commercial (Quanah)	1.8 S; hwy E, N	1568	21 S2	Ltd 80 oct.
Electra	3.6 WNW; RR S	1229	27 S2	80 oct.
Gilchrist (Wichita Falls)	7 WNW; RR S	1020	30 S1	80 oct. Pwr line S.
★ Harpersville Int, 44, EQ-FV	9.2 S of Breckenrd	1396	45 R1 L3	
Holman (Wichita Falls)	3.1 SSE; hwy W	980	31 L S6	80, 91 oct. Poles SE, E, NE.
Knox City	0.8 SSE; RR W	1550	17	
(P) Olney	4 WSW; rd S, N	1274	55h S4	80, 91 oct.
Paducah	2.5 ESE; RR NW	1800	23	
Pampa	1 NNE; RR S	3234	50 S6	80, 91 oct. Pole line S.
(A) Pampa AAF (A)	12.3 E	3124	65h	INACTIVE.
★ Pampa Int, 4, AQ-HC	1.9 NE; RR S	3197	50 L3 S1	80, 91 oct.
Ranger	1.5 SSW; RR W	1420	28 S6	80 oct. Pole line NE.
Seymour	1.3 SE; riv SW	1300	27 S1	73 oct.
(A) SHEPPARD/KELL MUN. (Wichita Falls	5.8 N; hwy W	1028	66h R2 L5 S6	80, 91 oct.
Spur	2.2 S; RR N	2363	28 S4	73 oct.
Stamford	2.5 N; hwy E	1609	24 S6	73 oct.
Taylor (Albany)	1 N; RR SW	1429	28 S2	80 oct.
★ Twitty Int, 8A, AQ-LS	1 SE; hwy W	2225	38 L3	
Vernon	5 N; hwy E	1250	43h S6	73, 80 oct. No sto.
★ Vernon Int, 15, AQ-FV	8.8 NNW; hwy E	1332	32 L3	
Victory (Vernon)	5.9 SSW; hwy E	1230	20h S2	No fuel.
Weaver (Eastland)	1 NE; RR S	1576	31 S6	80 oct.
Wellington	1 SE; hwy W	2100	17	Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not chartered.

ABILENE 47


AMARILLO 30
WICHITA 31
TO GAGE
GREEN 4
ALBUQUERQUE
FORT WORTH
135
ARCHER – 1945'
9
BENNETT – 1800'
20 S
GAGE
266
WEATHERFORD – 1950'
27 S
VICTORY – 1540'
32 S
70
6000
PAMPA – 3197'
50 L S
PAMPA AAF – 3124'
65 H
TWITTY – 2225'
38 L
SAYRE – 1990'
26 S
CLINTON
65 H
PAMPA – 3234'
50 S
OKLAHOMA CITY
350
BESSIE
AMARILLO
251
257
75
314
5000
RED 24
DUKES – 1250'
26 S
DILL – 1876'
26 L
CORDELL – 1550'
20 S
CLARENDON
233
(116.1)
162
DELHI
50
199
113
SENTINEL MEM – 1600'
24 S
HOBART
53 H
TEX.
OKLA.
PONDER – 1585'
26 S
WELLINGTON – 2108'
17
HOBART – 1531'
19 S
ROOSEVELT – 1400'
24 S
SPRADLIN – 1720'
26 S
ALTUS MUN – 1410'
31 S
ALTUS – 1368'
60 H
19
283
VICTORY – 1400'
45 H
CAMERON COLL
20
OKLA. 2
P.A.
CLARENDON – 2869'
40 L S
WALKER
26 S
FREDERICK
60 H
ARLIE – 1770'
42 L
205
FREDERICK – 1285'
26 S
RED 10
106
GRANDFIELD NO. 3 – 1128'
45 H
CHILDRESS – 1930'
30 S
GRANDFIELD – 1100'
3 S
94
COMMERCIAL
21 S
CHILDRESS AAF – 1952'
60 H
OLUSTEE – 1338'
45 H
8000
VERNON – 1332'
32 L
BIG SPRING 46 AMARILLO 30
VERNON – 1250'
43 H S
ELECTRA – 1229'
27 S
BURKBURNETT – 1000'
24 S
GILCHRIST
PADUCAH – 1800'
23
SHEPPARD (KELL) – 1028'
66 H L S – 201 (126.18)
VICTORY – 1230'
20 H
HOLMAN – 980'
31 S
4000
WICHITA FALLS
239
(116.1)
SPUR – 2363'
28 S
SEYMOUR – 1300'
27 S
OLNEY – 1274'
55 H S
KNOX CITY – 1550'
17
STAMFORD – 1609'
24 S
ARLEDGE – 1600'
23 H
ANSON – 1650'
21
180
On request
HARPERSVILLE
284
(116.1)
BRECKENRIDGE – 1290'
29 S
5000
ABILENE
379
(116.1)
TAYLOR – 1429'
28 S
74
ABILENE – 1758'
36 H L S – 278 (126.18)
AVENGER – 2370'
62 H S
ABILENE AAF – 1780'
50 H
GREEN 5
247
FORT WORTH
365
WEAVER – 1576'
31 S
RANGER
H3
70
CISCO – 1620'
30 S
BAIRD – 1710'
24
TO BIG SPRING
BIG SPRING 46
SAN ANTONIO 58
FORT WORTH 48
TO AMARILLO
TO AMARILLO
101°12'
32°22'
101°
100°30'
100°
99°30'
99°
98°30'
34°30'
34°
33°30'
33°
32°30'
32°
98°30'
99°
● DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
Q: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RADIO
HEAD INDICATE "Q" CORRIDORS.
SCALE OF MILES
10 0 10 20 30

FORT WORTH 48



RADIO — OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARDMORE	400 (AT)(116.1)	MHVT	(4); 116.1
MARIETTA FM	(. . -)	FM, 1°, 75	Fort Worth, Texas
NEWALLA FM	(. . - -)	FM, 78°, 27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350 (OL)(116.1)	SBRAZ-VDT,78°,1.6	(4); 116.1
OKLAHOMA CITY LFM	(- -)	LFM, 78°, 5.4	Oklahoma City
POST FIELD (Lawton)	201 (126.18)	CA	(3); 126.18 (7-17 Mon.-Fri.)
WASHINGTON FM	(- - -)	FM, 155°, 24.6	Oklahoma City

TEXAS

DALLAS (Love)	341 (DL)(116.1)	SBMRAZ-VDT,35692.5	(4); 116.1
DUNCANVILLE FM	(- -)	FM, 176°, 10.5	Dallas
FORNEY FM	(-)	FM, 86°, 23	Dallas
FORT WORTH (Meacham Fld)	365 (FV)(116.1)	SBRAZ-VDTX,176°,2.3	(4); 116.1
FORT WORTH LFM	(- - -)	LFM, 177°, 6.2	Fort Worth
GRANBURY	263 (DFV)	MRLWZ	
HASLETT FM	(-)	FM, 1°, 8.1	Fort Worth
JOSHUA FM	(. . - - -)	FM, 177°, 27.7	Fort Worth
PERRIN FIELD (Sherman)	219	CA	(3)
SULPHUR SPRINGS (Int.)	224 (ZP)(116.1)	MHVT	(4); 116.1
SULPHUR SPRINGS FM	(- -)	FM, 68°, 103	Fort Worth
WAXAHACHIE FM	(. . - -)	FM, 176°, 27	Dallas
WEATHERFORD FM	(- - - -)	FM, 250°, 22	Fort Worth

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Ada	2 N, RR SW	1008	50h	
Antlers	2.8 S,RR E	640	23 S2	80 oct.
Ardmore	11.2 NNE,riv E	738	73h	
Ardmore 10, FV-WD	9.2 N,hwy E	863	40h R1 L3 S6	80, 91 oct. Poles E.
Atoka	1.8 NW,RR S	540	22 S2	73 oct. Pole line S.
Boren (Wetumka)	1.5 NW,hwy S	780	20	
Commercial (Durant)	5.2 W,RR N	710	19 S2	73 oct. Rnwy data unverified.
Commercial (Okmulgee)	3.4 E,RR N	682	25 S2	Ltd 73 oct. Poles SW.
Community (Ada)	6.8 WNW,RR NE	1000	18 S6	80 oct.
(P) Eaker (Durant)	3.2 SSW,RR NW	703	52h L5 S1	80, 91 oct. All lgts prior req.
Halliburton (Duncan)	1 S, RR E	1125	25 L S4	80,88 oct. Range lgts.
Holdenville	1.2 WNW,RR NE	864	20 S2	73 oct. Pole line N.
Lawton	1.5 S,RR E	1145	26 L2 S4	73 oct.Fld lgts prior req. Poles NW.
Marlow	1.6 N,RR E	1150	15	Pole line S.
McAlester	2 SSE,RR W	750	25 S6	80 oct.
(P) Okmulgee	3 NNE,hwy W	715	43h L5 S6	73,80 oct. Ctc lgts prior request.
(P) Pauls Valley	2.1 S,RR E	967	35h L1 S1	80 oct.
(A) Post (Lawton)(A)	3 N	1170	50 R1 L4 S4	73 oct.; ltd 100 oct.
Seminole	3.4 NNW,hwy E	1012	35 S2	80 oct. Trees W, NW.
(P) Shawnee	2 NW,RR E	1080	42h L5 S2	80, 91 oct. Fld lgts prior req.
(A) Swain (Lawton)(A)	3.5 E,hwy N	1165	26	
Tishomingo (NC)	7.5 N	890	29	
Walker (Ada)	5.4 S,hwy W	860	32 S6	73, 80 oct. Trees sur fld.
Walters	1.2 SW,RR E	1005	26 S2	73 oct. Cattle on field.
Wewoka, com.	1.8 W,lake N	905	23 S6	80 oct. Pole line NNE.
Wewoka, mun. (NC)	4.7 NE,hwy N	790	30	

A-hard surface runway; E-[illegible]; L-lighting facilities; S-servicing; (see page 16)(NC)-not charted.

TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bowie (NC)	2.8 NW,bet RRs	1060	19	Cattle on fld. Trees N.
Brown (Bonham)	8 N,hwy W	625	48	Pole line S, W.
Caddo Mills(Greenv'l)	10.7 SW,hwy W	540	40h	
College (Denton)	4.2 N	620	25 S6	73 oct. Cattle on field.
Commerce	3.4 NNE,hwy SE	548	27 S6	80, 91 oct.
(A) Gainesville AAF (A)	3.8 WNW,RR S	833	45h	
Gainesville com.	3 NNE,hwy W	800	30 L1 S1	80 oct. Poles S.
(A) Gaskin (Sherman)(A)	12.6 SW,rd E	730	40h L	B-2, flood lgts.
Gray (Denison)	2.5 E,RR N	675	24 L S6	80 oct. Emerg.lgts by circling fld.
Hartlee (Denton)	5.4 NE,RR SSE	600	27 S6	73,80 oct. Poles S.
Jones (Bonham)(NC)	2 NNE,hwy E	616	18h	
Majors (Greenville)	5 SSE,RR W	530	55h	
(P) Mineral Wells, new	3.2 SE,RR N	938	42h	
Mineral Wells, old	1.1 SE,rd W,S	871	29 S6	80 oct.No sto. Pole line WSW.
Muenster	2.6 E,RR S	1010	26 S1	80 oct. Pole line S.
Parker Sky Camp (Weatherford)	3.4 SSE,RR NW	1050	23 S2	80 oct.
(A) Perrin (Sherman)(A)	6.4 NNW,RR N	740	51h R1 L5 S6	73, 91, 100 oct.
Rutherford (Greenv'l)	4.5 WSW,hwy SE	550	23 S3	73 oct. Pole line S.
Sherman	1.4 SE,hwy N	749	25h S6	80 oct.
So.Sulphur (Greenv'l)	9.5 NNE	550	30	(NC)
Sulphur Springs, 7B, DL-LV	1.9 NW,RR S	472	35 R1 L3 S1	80 oct. Pole line S,SE.
Terrell	1.5 SE,RR W	490	30h	
Weatherford, mun.	1 W, hwy N	1147	16 S4	73 oct.
Whaley Arpk(Gainesv'l)	5.7 WSW,RR N	820	20 S2	80 oct. Pole line N.
* Wills Point Int,7,FV-AG	5.9 NW	529	28 L3	
Wolfe City	2 N		20 S1	80 oct. Data not verified.

RADIO — OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
NEWALLA FM	(. . - -)	FM,78°,27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350(OL)(116.1)	SBRAZ-VDT,78°,1.6	(4); 116.1
OKLAHOMA CITY LFM	(- -)	LFM,78°,5.4	Oklahoma City
TINKER, OKLAHOMA CITY (Army)	221 (DTE)	BMRAZ	4495
Tinker Field	396 (126.18)	CA;170°,5.3	(3); 126.18
WILL ROGERS FIELD (Oklahoma City)	272 (126.18)	C	(4); 126.18,131.9
WASHINGTON FM	(- - -)	FM,155°,24.6	Oklahoma City
TEXAS			
DALLAS (Love Field)	341(DL)(116.1)	SBMRAZ-VDT,356°,2.5	(4); 116.1
DUNCANVILLE	404 (D)	FMK,176°,10.5	Dallas
DUNCANVILLE FM	(- -)	FM,176°,10.5	Dallas
FORNEY FM	(-)	FM,86°,23	Dallas
FORT WORTH (Meacham Field)	365(FW)(116.1)	SBRAZ-VDTX,177°,2.3	(4); 116.1
Fort Worth AAF	201 (126.18)	CA	(3); 126.18
FORT WORTH LFM	(- - -)	LFM,177°,6.2	Fort Worth
HASLETT FM	(-)	FM,1°,8.1	Fort Worth
HASLETT	371 (F)	FMK,1°,8.1	Fort Worth
HENSLEY FIELD (Dallas)	396 (126.18)	CA	(4); 126.18
JOSHUA FM	(. . - - -)	FM,177°,27.1	Fort Worth
LOVE FIELD (Dallas)	278 (126.18) (118.9)	AC (ILS)	(4); 118.9,131.9,126.18
MEACHAM FIELD (Fort Worth)	272 (126.18) (118.7)	AC	(4); 142.74,131.9,126.18,118.7
WAXAHACHIE FM	(. . - -)	FM,176°,27	Dallas

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOVE, TEXAS	110.3		140° Mag.	IM	MM ·--· (.70)	OM – – (4.35)
			360° Mag.		MMK 311 ·--· (.75)	OMK
MEACHAM, TEXAS				IM	MM	OM
			173° Mag.		MMK 356 ·--·(.70)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 **kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.**

AIRPORTS — OKLAHOMA

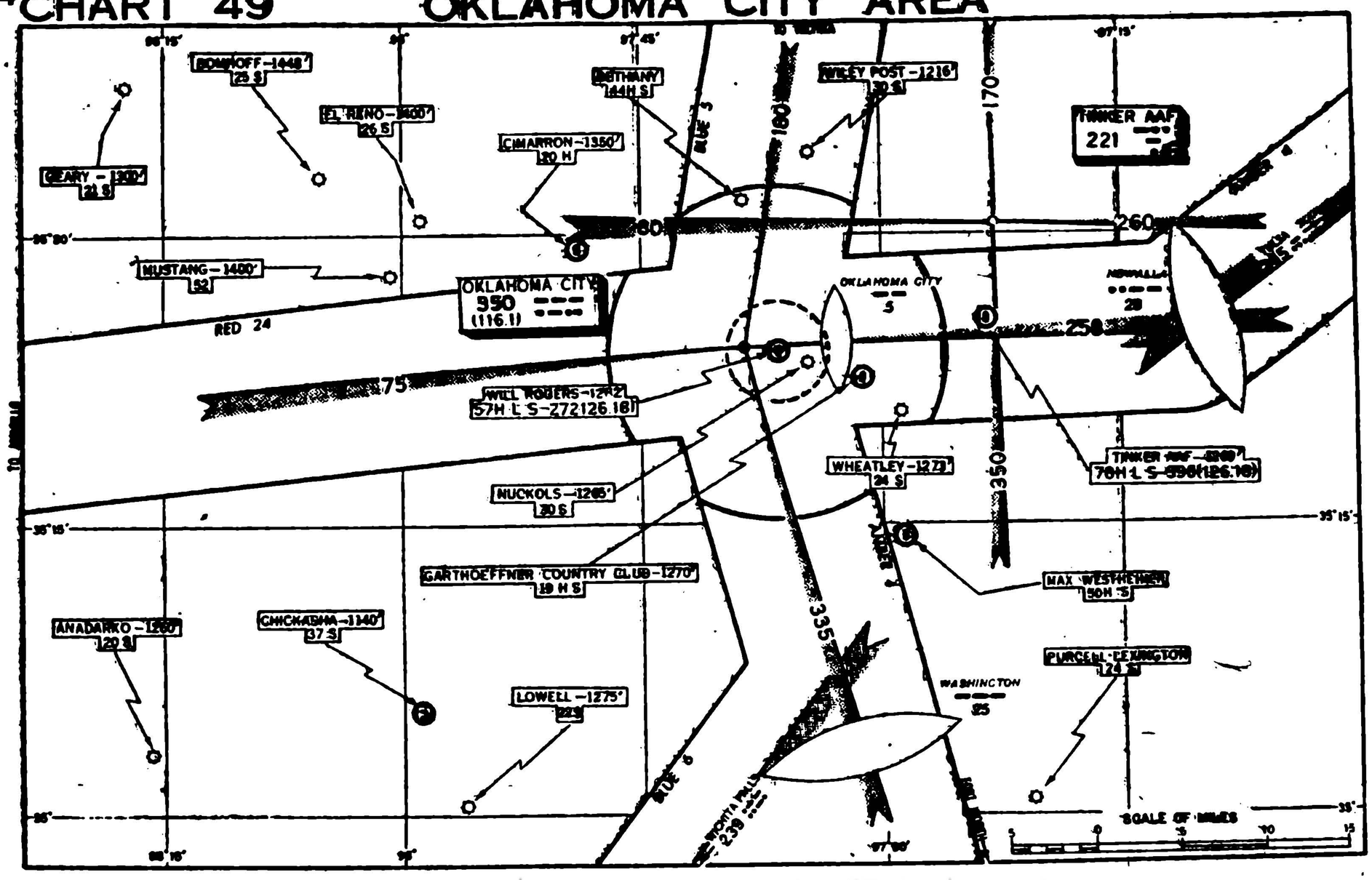
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anadarko	1.5 SW;RR E	1260	20 S1	80 oct.
Bethany (Oklahoma City)	8WNW	1300	44h S6	80,91 oct.Pwr line S.
Bomhoff (Calumet)	4.1 SSE;hwy S	1448	25 S4	73,80,91 oct.
Caddo Flying Ser.(Ft.Cobb)	6 SE;hwy S	1250	16 S2	80 oct.
Chickasha	4 NNW;riv S	1140	37 L S4	80,91 oct.Flood,obst lgts.
Cimarron (Yukon)	4 WSW;hwy N	1350	20h	
El Reno	1.5 SW;RR N	1400	26 S6	80 oct.
Geary	1.4 E;RR N	1300	21 S2	73 oct.
Garthoeffner Co. Club (Oklahoma City)	7.3 S;hwy E	1270	19h S6	80 oct.
Lake View (Yukon)(NC)	2.7 E;RR N	1275	24	PRIVATE.Poles N,S.
Lowell (Chickasha)	2 SSE;RR E	1275	22 S2	80 oct.Pole line W.
Max Westheimer (Norman)	2.7 NW;RR E	1178	50h S2	80,91 oct.
Mustang (El Reno)	5.3 SSW	1400	52	
Nuckols (Oklahoma City)	7.2 SSW;hwy W	1265	30 S6	80 oct.Poles N,W,SW.

OKLAHOMA

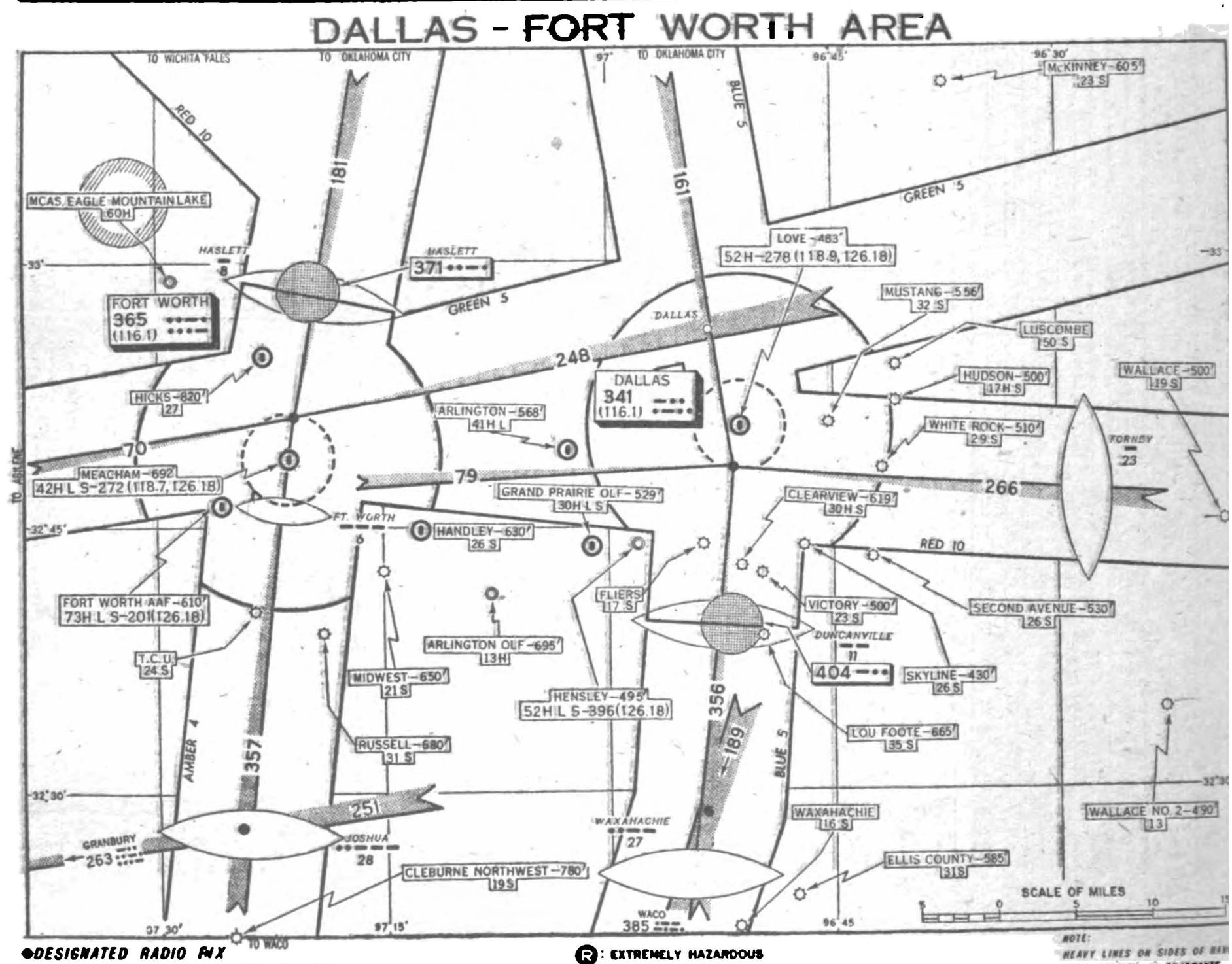
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Purcell-Lexington (Lexington)	0.8 WSW;riv W	1100	24 S2	80 oct.Trees S.SSW,SSE.
(A,N) Tinker (Oklahoma City)	8.5 SE;RR NE	1269	78h R2 L5 S6	62,91,100 oct.JP-1.NAFC. (A)
Wheatley Airpark (Moore)	0.6 NE;hwy W	1273	24 S6	73 oct.
Wiley Post (Oklahoma City)	7.9 NNW;hwy E	1216	30 S6	80,91 oct.Trees S.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.
TEXAS				
(N) Arlington-Midway	6.8 NNE;RR S	568	41h L5	Poles S.
(N) " OLF (N)	4 SSW;rd W	695	13h	
Clearview (Dallas)	5.1 SSW;RR N	619	30h S6	80,91 oct.
Cleburne Northwest	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(N) Eagle Mtn Lake MCAS (Newark) (N)	1 SSE;RR NE	745	60h	INACTIVE.
Ellis Co. (Waxahachie)	3.5 NE;RR S	585	31 S2	73 oct.Pole line S.
Fliers (Dallas)	6.2 WSW;RR W	580	17 S4	80 oct.No sto.Trees S.
(A) Fort Worth AAF (A)	6.8 WNW;lake N	610	73h R1 L5 S6	73,91,100 oct.JP-1.
(N) Grand Prairie OLF (N)	1 WSW;RR N	529	30h L5 S4	73 oct.No bcn.
Handley	0.6 NE;RR S	630	26 S6	73 oct.
(A,N) Hensley (Dallas)(A)(N)	11 WSW;hwy N	495	52h R1 L5 S4	73,91,100 oct.
Hicks (Fort Worth)	12.5 NNW;lk W	820	27	
Hudson (Dallas)	9.6 NE;RR SE	500	17h S6	80,91 oct.Pole line W.
Lou Foote (Dallas)	8.8 S;hwy E	665	35 S6	73,80,91 oct. Bldgs N,NE.
LOVE (Dallas)	5 NNW;RR SW	483	52h R3 L6 S6	73-100 oct. Poles S.
Luscombe (Garland)	2.2 WSW;RR N	610	50 S5	80 oct.No storage.
McKinney	2.1 S;hwy W	605	23 S2	80 oct.Poles E,W.
(P) MEACHAM (Fort Worth)	5.5 NNW;hwy NE	692	42h R2 L6 S6	73,80,91,100 oct.
Midwest (Fort Worth)	5.3 ESE;RR NNE	650	21 S4	80,91 oct.Pole line W,S.
Mustang (Dallas)	6 NNE;hwy NE	556	32 S6	80,91 oct.
(N) Russell (Fort Worth)	7 SSE;RRs E,W	680	31 S6	80,91 oct.
Second Avenue (Dallas)	7 SE;RR N	530	26 S1	73,80 oct.Use strips.Poles S.
Skyline (Dallas)	3.2 SSE;riv E	430	26 S6	80,91 oct. Trees NW.
T. C. U. (Fort Worth)	6.6 SW;RR S	710	24 S2	80 oct.
Victory (Dallas)	4.6 S;hwy W	500	23 S6	73,80 oct.No sto.Pole line E.
Wallace (Terrell)	2 W;RR S	500	19 S2	73 oct.
Wallace #2 (Kaufman)	4 W;hwy N	490	13	
Waxahachie	1.5 SSW;hwys E	595	16 S1	73 oct.
White Rock (Dallas)	6.7 ENE;RR NW	510	29 S6	91 oct.

h-hard surfaced **runways.** R-radio facilities. L-lighting facilities. S-servicing. (see **page** 14) (NC)-Not charted.

CHART 49 OKLAHOMA CITY AREA



DALLAS - FORT WORTH AREA

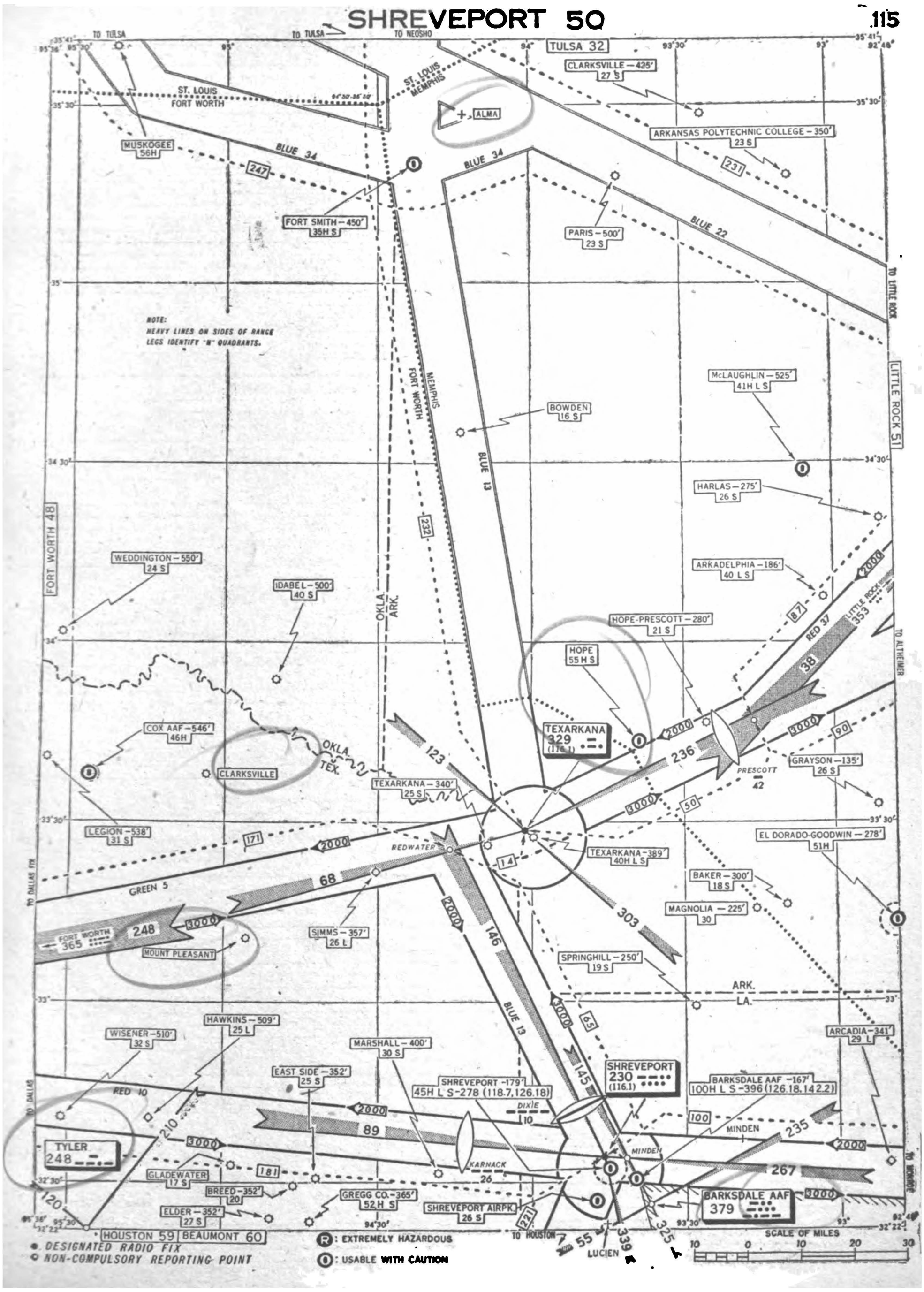


●DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RAN
ARCS IDENTIFY "B" QUADRANTS.

SHREVEPORT 50



RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT FM	(-)	FM, 56°, 42	Texarkana
TEXARKANA	329 (TR)(116.1)	SBRAZ-VDT, 123°, 2	(4); 116.1
		LOUISIANA	
[illegible] (Shreveport) (Army)	379 (DBY)	SBMRAZ	(3)
Barksdale Field	396 (126.18,142.2)	CA (ILS);325°, 4.4	(3); 126.18,142.2
DIXIE FM	(- - - -)	FM, 326°,10.2	Shreveport
SHREVEPORT	230 (ZH)(116.1)	SBRAZ-VDT	(4); 116.1
Shreveport Airport	278 (126.18)(118.7)	AC; 146°, 1.8	(4); 142.74, 131.9, 118.7, 126.18
		TEXAS	
KARNAK FM	(- - -)	FM, 269°,26	Shreveport, La.
TYLER (Pounds)	248 (TQ)	BMRLZ-DT, 120°,1.4	(4)

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
[illegible], LA.	110.3	335	323° Mag.	IM (.07)	MM (1.00)	OM (4.39)
					MMK	OMK
BARKSDALE, LA.	109.9		143° Mag.	IM (.25)	MM ..... (.64)	OM -- (4.35)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARKANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arkadelphia, 24, DL-LV	1.5 ENE; RR N	186	40 L3 S6	80 oct. Pole line N, NW.
Arkansas Polytechnic (Russellville)	1.3 N; hwy W	350	23 S6	73 oct. Pole line SE.
Baker (Magnolia)	4.3 E; hwy S	300	18 S6	80, 91 oct. Pole line SW.
Bowden (Mena)	1 E; RR NW	1177	16 S1	73 oct.
Clarksville	2.5 E; hwy S	425	27 S1	80 oct. Pole line WSW.
(P) El Dorado-Goodwin (El Dorado)	8.6 W; hwy S	278	51h	
FORT SMITH	4 SSE; RR S	450	35h L3 S6	80 oct. 150' stacks W.
Greyson (Camden)	3.4 SW; RR S	135	26 S6	80, 91 oct. No sto.
Greig (Van Buren) (NC)	4.1 E; RR 1.5 N	450	13	
Harlas (Malvern)	2.1 WSW; RR SE	275	26 S1	73 oct. Power line NE.
Hope	5 NNW; RR E	359	55h L3 S6	80,91 oct.Lgts prior req.Use rnwys.
Hope Prescott (Prescott)	3 SW; RR E	280	21 S6	80 oct.
(P) McLaughlin (Hot Springs)	3 SW; RR N	525	41h L5 S6	80 oct. Bldg. twr N.All lgts prior req.Avail army
Magnolia	1.6 WSW; RR E	225	30	10' bldg SSW. 0800-1600 week days only.
Norman (Ola)	1.8 NNE; hwy E	348	28	Pole line E.
Paris	1.8 NE; RR 1 S	500	23 S1	73 oct. Pole lines W, E, SW.
TEXARKANA	4 NE; RR W	389	40h R1 L5 S6	80, 91, 100 oct.
Alma	1.5 SE		22 S2	80 oct.Data not verified.
		LOUISIANA		
★ Arcadia Int, 26 FV-AG	4.5 E; RR S	341	29 L3 S2	No fuel. Pole line SW.
(A) Barksdale (Shreveport)(A)	5.8 E; riv W	167	100h R3 L5 S4	73, 91, 100 oct. JP-1.
Cross Lake (Shreveport)	7 WNW; RR NE	210	40	CAUTION. Data not verified.
Lucien (Shreveport)	7 S	205	31 S4	80 oct. Data not verified.
Minden	1.5 W	200	24 S4	80 oct. Data not verified.
Northeast Aviation (Bastrop)	2 WSW	90	17 S4	80 oct. No sto. Data not verified.
(P) SHREVEPORT	2.5 NNE; riv E	179	45h R2 L5 S6	73, 80 oct.
Springhill	1.2 S; RR E	250	19 S1	73 oct. Pole line E, W.
Shreveport Airpark	4.5 SSW; bet RRs	300	47 S6	80, 91 oct. Pole line SE.
		OKLAHOMA		
Heavener (NC)	2 N; hwy W	575	27	
Idabel	1.3 NW; RR E	500	40 S2	80 oct.
(P) Muskogee	5.5 S; RR W	610	56h	Hill SW.
Noshoba (NC)	0.8 SE; riv S	625	13	PRIVATE.
Poteau (NC)	1.5 SSW; hwy W	460	19	
Weddington (Hugo)	1.9 NW; hwy SW	550	24 S1	80 oct. Pole line E.
		TEXAS		
Breed (Longview)	2 W; RR N	352	20	Pole line around fld.
(A) Cox AAF (Paris)(A)	6.5 ESE; RR N	546	46h	INACTIVE.
East Side (Longview)	2.4 NE; RR S	352	25 S6	80, 91 oct. Pole line S.
Elder (Kilgore)	2.5 NE; RR E	352	27 S6	80, 87, 91 oct. Pole line W.
Gladewater	2 WNW; RR S	550	17 S6	73 oct. No sto. Pole line N, S.
(P) Gregg County (Longview)	7.2 S; riv N	365	52h S1	80, 91 oct.
★ Hawkins Int, 12, FV-AG	6.8 NNW; lake SW	509	25 L3	Trees N.
Holmes (Gilmer)(NC)	4 N; RR W	370	23	Pole line W. Cattle on fld.
Legion (Paris)	1.9 NW; RR E	538	31 S6	80 oct. Pole line E.
Marshall	3.9 SE; hwy N	400	30 S6	73 oct. Pole line N.
★ Simms Int, 14, DL-LV	1 NE; hwy E	357	26 L3	Pole line E, S.
Texarkana	6 W; RR N	340	25 L S6	80, 91 oct.
Wisener (Mineola)	1.5 NW; hwy S	510	32 S2	73 oct.
Clarksville	2.8 NNW;RR SW	480	20 S6	73,80 oct.
Mt.Pleasant	2.8 ENE;RR S	393	20 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO

ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADAMS FIELD (Little Rock)	278 (126.18)(118.5)	C	(4); 126.18, 118.5, 131.9, 142.74
BRUINS FM	(- - - -)	FM. 240°, 24	Memphis, Tenn.
LITTLE ROCK (Adams Field)	353 (LI)(116.1)	SBRAZ-VDT. 313°, 3.9	(4); 116.1
LOUISIANA			
MONROE (Selman)	206 (UO)(116.1)	SBRLZ-VDT. 25°, 2.8	(4); 116.1
MISSISSIPPI			
FLORA FM	(-)	FM. 356°, 13	Jackson
GREENWOOD	261 (GD)	BMLZ-DT, 265°, 1.9	(4)
JACKSON	260 (JA)(116.1)	SBRAZ-VDT. 173°, 2.4	(4); 116.1
KESBITT FM	(- - -)	FM. 179°, 9.8	Memphis, Tenn.
VICKSBURG	382 (VS)(116.1)	MHVT	(4); 116.1
TENNESSEE			
CUBA FM	(-)	FM. 356°, 20.5	Memphis.

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ADAMS (Little Rock)	4 E; RR W	260	52h R2 L5 S6	80,91 oct; 73,100,JP-1 mil acft.
Ashley Co. (Crossett)	5.5 NE; RR E	160	21 S1	Ltd 80 oct. Obsts surround fld.
Bailey (Cabot)	0.5 W; RR E	270	16 S1	80 oct. Trees sur fld.
Benton	1.6 W; RR S	300	20 S6	80 oct. Poles S.
Bowen (West Memphis)	1.5 W; hwy N	215	17 L S6	80 oct. Flood lgts. Poles SE.
Brinkley, 37, DL-LV	1 E; RR N	188	31 L3	Obst NW.
(A) Carlisle #1 (Stuttgart) (A)	26 NW; RR S	236	45h	INACTIVE.
Commercial (De Witt)	2.4 W; RR N	196	24 S4	80 oct. Pole line E.
Conway	1.5 SE; hwy W	309	32 S6	80 oct.
Dockery (Stuttgart)	4.5 NNW	214	24 S2	73, 80 oct. Pole line N, S, E.
Elaine	1.3 N; RR E	170	18 S2	80 oct. Trees S, SE.
EL DORADO	1.5 S; RR W	265	24 S4	80 oct.
Erwin (Newport)	3.5 SSE	220	45h	
Forrest City	0.7 W; hwy SE	226	22 S2	80 oct. Bldg S.
Gilbrech (Palmer)	0.2 NE; RR S	178	17 S2	80 oct. N/S strip rough. Poles W.
Grider (Pine Bluff)	5.5 SE; hwy N	210	45 S6	73, 80 oct.
(A) Hazen #2 (Stuttgart) (A)	18.7 NNW; RR N	225	45h	INACTIVE.
J. B. Wilson (Joiner)	0.5 ENE; hwy W	225	15	Trees NE.
Levee (West Memphis)	2.4 E; RR N	215	24 S4	Ltd 73 oct. Pole line N, S.
Newport	6 ENE; hwy N	237	50h	
Overholt (Cotton Plant)	3 W; RR NE	250	18 S1	Ltd 80 oct.
(A) Prairieville #5 (Stuttgart)(A)	8.2 SE	205	45h	INACTIVE.
Round Pond	1.5 NNW; hwy N	200	22 S2	80 oct.
Searcy	2.8 S; RR E	260	14 S1	80 oct. Pole line NE, SE.
(A) Stuttgart AAF (A)	7 N; RR E	230	50h	INACTIVE.
Thompson-Robbins (Helena)	6 NW; RR S	242	20h S6	73, 80 oct.
Tony (Pine Bluff)	2.5 N; hwy W	215	28 S2	73, 80 oct. Twr NW lgtd.
Tucker (Hughes)	1.1 S; RR W	205	26 S2	80 oct.
Wright (Monticello)	1 ENE; hwy S	230	15	Pole line S.
Wynne	3.2 N; RR E	212	17 S2	80 oct. Pole line E, SE.
Central (Little Rock)	4.5 NE;RR S	255	35 S4	80 oct.Trees W.Data not verified.

LOUISIANA

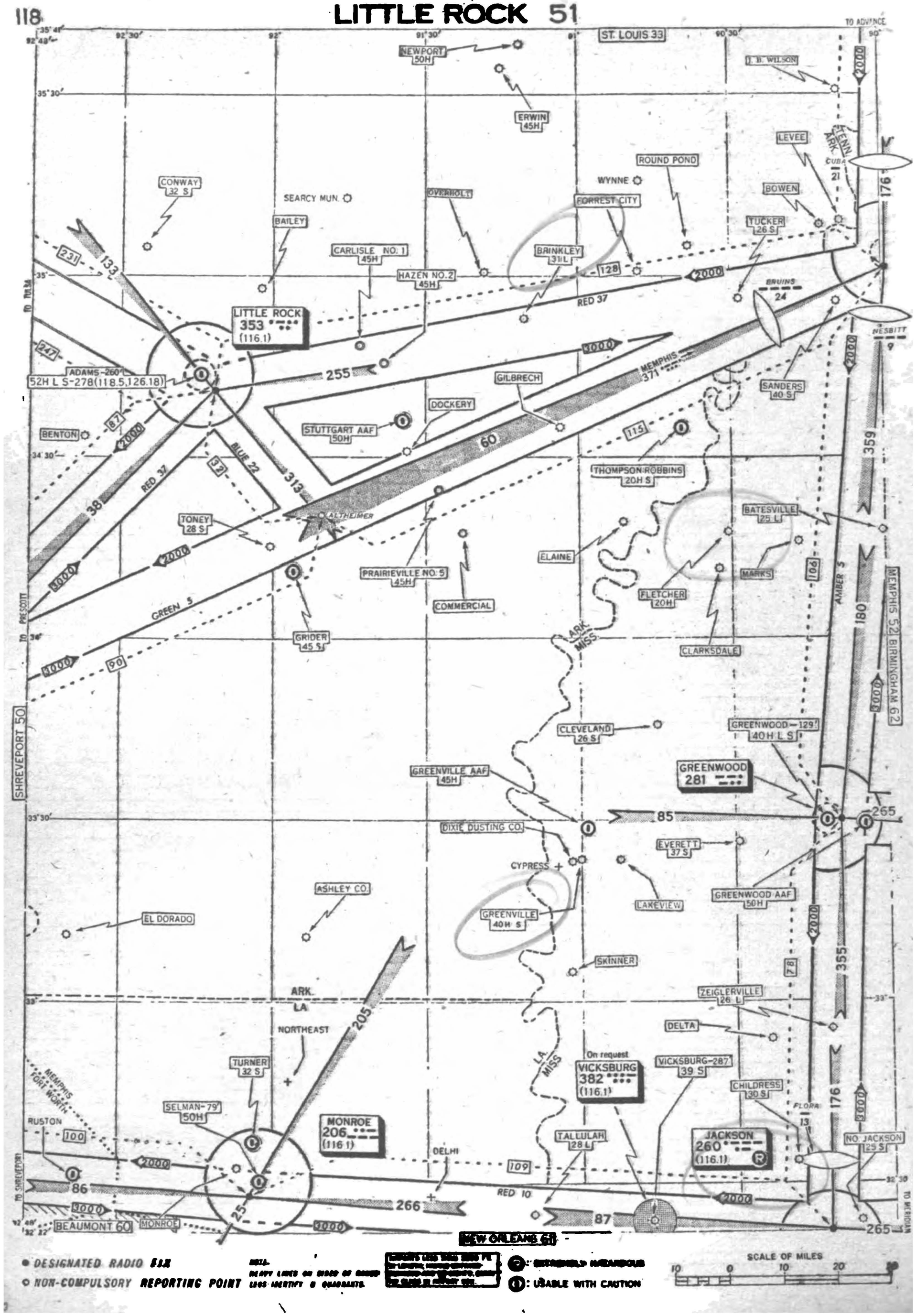
Delhi Flying Service	0.5 N	95	23 S4	80 oct. Pole line E. Data not verified.
Monroe Airpark	2.5 N; riv W	77	20 S4	73 oct.
Ruston	1 SW	320	15h S4	80 oct. Data not verified.
SELMAN (Monroe)	4.6 E; RR N	79	50h R1	
★ Tallulah Int, 36, FV-AG	2.4 ENE; RR S	84	28 L3	Beacon S.
Turner (Monroe)	9.5 ENE; RR E	85	32 S4	91, 80 oct. Pole line E.

MISSISSIPPI

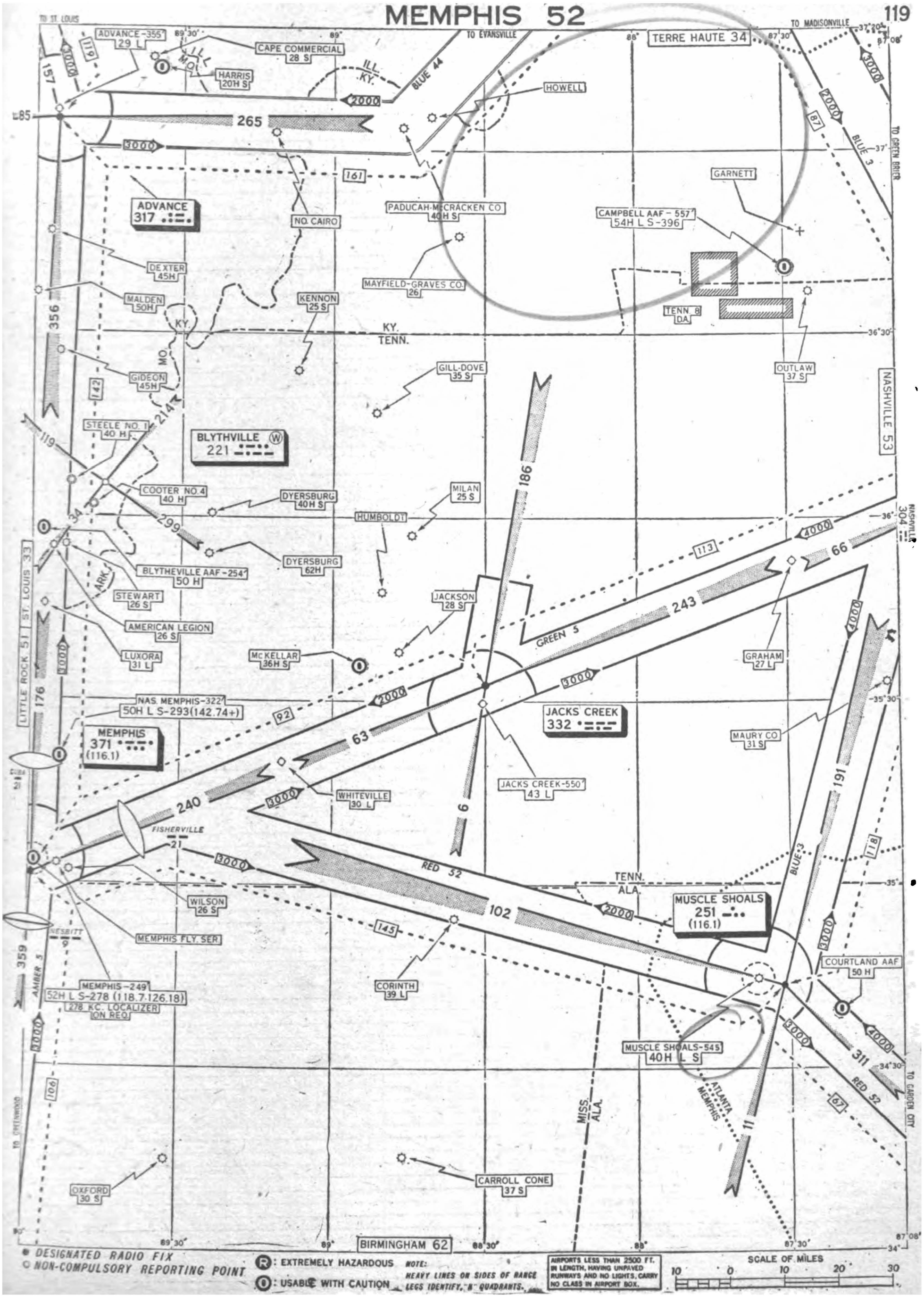
Augustine (Jackson)(NC)	11.5 NE; riv SE	335	40	
★ Batesville Int, 29, MO-LS	3 W; hwy SE	205	25 L3	Poles N, lgtd.
Canton (NC)	1.4 WNW; RR E	300	38	Tank E.
Childress (Flora)	1.5 NNW; RR E	186	30 S1	73 oct. Trees, bldg N.
Clarksdale	1.5 SE; hwy NW	175	22 S6	73 oct. Use strips only
Cleveland	2 NW; hwy S	400	26 S6	73 oct.
Cole (Heads) (NC)	3 NE; RR W	118	16	
Cypress (Greenville)	1.5 SSW; lake E	120	28 S1	80 oct. Data not verified.
Delta (Yazoo)	3.3 NNE; RR SE	115	21 S1	73 oct. Pole line N
Dixie Dusting Co. (Greenville)	2 SE; RR, hwy N	118	16 S4	73 oct. No sto.
Everett (Moorhead)	1 SE; RR N	127	37 S6	73 oct. No sto.
Fletcher (Clarksdale)	8 NNE; RR W	175	20h S4	No fuel or sto.
Greenville	3.1 ESE; hwy N	118	40h S1	80 oct.
(A) Greenville AAF (A)	6.5 NE; road W	131	45h	INACTIVE.
(A) GREENWOOD	2.3 SW; RR SE	129	40h R1 L5 S2	73, 80 oct. Pole line E, SE. ARMY INACTIVE.
(A) Greenwood AAF (A)	5.8 ESE; hwy N	162	50h	INACTIVE
Lakeview Airpark (Leland)	1.7 SE; lake E	120	18 S4	73 oct. No sto. Data unverified.
Marks	1.5 NW; hwy N	106	22 S1	73 oct.
North Jackson Airpark (Jackson)	7.5 NE; hwy E	300	25 S4	80 oct. No sto. Trees S.
Sanders (Wells)	1.8 S; hwy NW	210	40 S6	73, 80 oct. Trees E.
Skipper (Glen Allan)	4 N; lake W	110	18 S1	73 oct.
Vicksburg	6.8 NE; hwy W	287	39 R1 S4	80, 91 oct.
★ Zeiglerville Int, 19, MO-LS	3 SW; riv N	248	26 L2	Twr SE. Trees E, S, SE.
Leland	3 NNE		23 S4	80 oct.No sto.Pwr line NW,Data not verified

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 41) (NC)-Not charted.

LITTLE ROCK 51



MEMPHIS 52


TO ST. LOUIS
ADVANCE-355° 29 L
CAPE COMMERCIAL 28 S
HARRIS 20H S
ILL.
MO.
KY.
BLUE 44
TO EVANSVILLE
TERRE HAUTE 34
TO MADISONVILLE
HOWELL
I-85
265
3000
2000
161
ADVANCE 317
NO. CAIRO
PADUCAH-McCRACKEN CO 40H S
CAMPBELL AAF - 557° 54H L S-396
GARNETT
DEXTER 45H
MALDEN 50H
MAYFIELD-GRAVES CO. 26
KENNON 25 S
TENN. & DA.
KY.
TENN.
GILL-DOVE 35 S
OUTLAW 37 S
NASHVILLE 53
GIDEON 45H
STEELE NO. 1 40 H
BLYTHVILLE (W) 221
COOTER NO. 4 40 H
DYERSBURG 40H S
MILAN 25 S
HUMBOLDT
DYERSBURG 62H
BLYTHEVILLE AAF - 254° 50 H
STEWART 26 S
AMERICAN LEGION 26 S
LUXORA 31 L
McKELLAR 36H S
JACKSON 28 S
GREEN 5
GRAHAM 27 L
NAS. MEMPHIS - 322° 50H L S-293 (142.74+)
MEMPHIS 371 (116.1)
JACKS CREEK 332
MAURY CO 31 S
JACKS CREEK - 550° 43 L
WHITEVILLE 30 L
FISHERVILLE 21
RED 52
TENN.
ALA.
MUSCLE SHOALS 251 (116.1)
BLUE 3
WILSON 26 S
MEMPHIS FLY. SER
COURTLAND AAF 50 H
CORINTH 39 L
MUSCLE SHOALS - 545 40H L S
MEMPHIS - 249 52H L S-278 (118.7-126.18) 278 K.C. LOCALIZER ON REQ.
ATLANTA MEMPHIS
MISS. ALA.
OXFORD 30 S
CARROLL CONE 37 S
TO GARDEN CITY
TO GREEN BRIER
LITTLE ROCK 51 ST. LOUIS 33
AMBER 3
BIRMINGHAM 62
* DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES OR SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

RADIO

ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
MUSCLE SHOALS	251 (ED)(116.1)	SHRAZ-VDT. 282°, 4.5	(4); 116.1
ARKANSAS			
BLYTHEVILLE (AAF)	221 (LY)	RLMZ. 225°, 33.6	
KENTUCKY			
CAMPBELL AAF (Hopkinsville)	396	CA	(3) (7-21)
MISSISSIPPI			
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
MISSOURI			
ADVANCE (Int.)	317 (AP)	SHRAZ-DT. 354° 1.5	(4)
TENNESSEE			
CUBA FM	(-)	FM. 356°, 20.5	Memphis
FISHERVILLE FM	(- -)	FM. 60°, 20.5	Memphis
JACKS CREEK (Int.)	332 (JK)	RMRLZ-DT. 186°, 2.62	(4)
MEMPHIS	372 (PS)(116.1)	SHRAZ-VDT.	(4); 116.1
Memphis Airport	278 (126.18)(118.7)	AC: 356°, 2.1	(4); 131.9, 126.18, 118.7
Memphis Airport	278	MLW	(On request only)
Memphis NAS	293 (142.74)	CN	3105; 142.74 (6-24)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Courtland AAF (A)	1.5 SW; RR N	587	50h	INACTIVE.
Muscle Shoals	1.5 E; dam NNW	545	40h R1 L5 S6	80, 91 oct.
ARKANSAS				
American Legion (Blytheville)	1.5 ESE; RR N	260	26 S6	80 oct. Pole line N. W. Stack E.
(A) Cooter #4 (Blytheville) (A)	10 NE	260	40h	INACTIVE.
★ Luxora Int. 39, NO-LS	1 WNW; hwy S	240	31 L2	
(A) Steele #1 (Blytheville)(A)	12.3 N	258	40h	INACTIVE.
Stewart (Blytheville)	2.2 E; RR S	254	26 S2	80 oct.
(A) Blytheville AAF (A)	3 NW; RR SW	254	50h	INACTIVE.
ILLINOIS				
North Cairo (Cairo)	3 NNW; RR E	312	24 S4	73 oct.
KENTUCKY				
(A) Campbell AAF (Hopkinsville)(A)	12.8 S; RR E	557	54h R1 L5 S4	100 oct.
Garnett (Hopkinsville)	6 SSE; hwy W		23 S1	80 oct. Data not verified.
Howell (Paducah)	4 WNW; RR S	371	21 S6	80 oct.
Mayfield-Graves County	3.6 ENE; hwy S	543	26	
PADUCAH-McCRACKEN CO. (Paducah)	8.8 W; RR N	405	40h S6	80, 91 oct. No sto.
MISSISSIPPI				
Carroll Cone (Tupelo)	3 W; hwy S	278	37 S1	80 oct.
Corinth 7, PS-TM	5 WSW; hwy E	418	39 L3	
Oxford	8 S; riv N, W	400	30 S2	73 oct.
MISSOURI				
★ Advance Int, 48, NO-LS	0.8 WSW; RR S	355	29 R1 L3	
Cape Commercial (Cape Girardeau)	4.8 SW; RR S	340	28 S6	80,91 oct. 8' dike S.
Dexter (Malden)	12.5 NNE	315	45h	
Harris (Cape Girardeau)	6.5 SSW; hwy E	340	20h S6	80, 91 oct.
Harvey Parks (Sikeston)	2 NE; RR S	315	66	Pole line W. Allway area.
Malden	3.5 NW; RR E	296	50h	
Gideon (Malden)	1 SE of Gideon	268	45h	
TENNESSEE				
Dyersburg	9 S; RR E	289	62h	
Dyersburg, mun.	2 SW; riv W	337	90h S4	80 oct. No sto.
Embry Riddle (Union City)	5 ESE; riv WNW	340	18h	Allway: 4620 x 3960'.
Gill-Dove (Martin)	3.5 S; hwy E	416	35 S6	80 oct.
★ Graham Int. 59, DL-LW	1.5 NW; hwy E	536	27 L3	
Humboldt	4.6 ESE; hwy W	380	15 S1	80 oct.
★ Jacks Creek Int. 53, DL-LV	2 N; hwy E	550	43 R1 L3	
Jackson	2.5 ENE; hwy NW	450	28 S6	80 oct.
Kennon (Union City)	3.2 WSW; hwy N	350	25 S6	80 oct. No sto. Pole line N.
(P) McKellar (Jackson)	5.8 W; RR S	410	36h S6	80 oct.
Maury County (Mt. Pleasant)	2.5 ENE; RR SW	672	31 S2	80 oct. Pole line NW.
(A) MEMPHIS	5.9 SSE; RR NE	249	52h R2 L6 S6	73, 91, 100 oct, JP-1. Radio required.
Memphis Flying Service (Memphis)	11 NE; RR 3 NW	286	35 L4 S6	80,91 oct.Pole line S.No ben.Lgts prior req.
(N) Memphis NAS (N)	16 NNE; RR NW	322	50h R1 L5 S6	91, 100 oct, NATS. Rnyw,lgtg info not ver.
Milan	2.8 NNE; RR SE	421	25 S5	80, 91 oct.
Outlaw (Clarksville)	7.4 NNW; RR W	550	37 S5	80 oct.
Wilson (Memphis)	11.5 SE; hwy W	320	26 S6	73 oct.
★ Whiteville Int. 49, DL-LW	0.6 NNW; RR E	494	30 L3	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (see page iv) (NC)-Not checked.

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GARDEN CITY FM	(. . -)	FM, 358°, 28	Birmingham
		KENTUCKY	
BOWLING GREEN	368 (BA)	SBMRAZ-DT, 296°, 3.8	(4)
		TENNESSEE	
BERRY FIELD (Nashville)	278(118.3,126.18)	AC (ILS)	(4);131.9,142.74,118.3,126.18
CHATTANOOGA	341 (CB)(116.1)	SBRAZ-VDT	(4);116.1
Chattanooga-Lovell Field	278	C, 203°, 3	(4)
FAIRVIEW FM	(- - -)	FM, 246°, 28	Nashville
GREEN BRIER FM	(- - - -)	FM, 331°, 23	Nashville
KINGSTON FM	(- - - -)	FM, 276°, 27.5	Knoxville
NASHVILLE (Berry)	304 (NA)	SBRAZ-DT, 246°, 2.6	(4)
SMITHVILLE (Int)	347 (XM)	SBMRAZ-DT, 177°, 1.4	(4)
SMYRNA AAP (Nashville)	219 (126.18)	CA (ILS)	(3);126.18
WATERTOWN FM	(- -)	FM, 129°, 19.6	Nashville

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BERRY, TENN.	109.9		14° Mag.	IM (.15)	MM (.81)	OM (4.17)
					MMK	OMK
[redacted],	109.5	335	230° Mag.	IM (.04)	MM ..... (.81)	OM -- (4.31)
[redacted],					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertville	1 NW;RR NE	1063	15 S1	80 oct.
Athens	3.2 NNW;hwy E	600	26 S2	80 oct. Lgt acft only.
Beaver Dam (Decatur)(NC)	7 E;RR W	580	20	
Centre (NC)	0.6 NNW;RR E	720	23	
Collman	5 SSE;RR E	740	15 S2	73 oct.
Decatur	4 WNW;hwy N	577	19	Pwr line N.
Camden	1.9 SW;hwy N	540	20 S2	80 oct. Fld rough.
Cartersville Dam (NC)	9.1 NW;hwy E	600	30	
Centralia	1 WSW;hwy N	588	18	
[illegible]VILLE	3.1 S;RR E	610	40h S1	80 oct.
[illegible] Arsenal (A)	7 SW;RR NW	677	56h	
North Sauty Base (Scottsboro)	3.2 SSW;RR NNE	610	20 S1	80 oct.
Pryor (Decatur)	4 NNE;hwy W	568	46 S4	80,91 oct.

GEORGIA

Cedartown	1 W;road S	850	25 S4	80 oct. Pole lines N,W; Hill SW.
Clevenger's Airpark (Marietta)	5 NE;RR W	1080	14 S4	Ltd 80 oct. No storage.
Dalton	5.7 ESE	700	22 S1	80 oct.
Felton (Cartersville)	2.5 N	790	23	Hills S,W,N; wires E,W.
Jasper	1 N;RR W	1935	17 S2	80 oct.
La Fayette-Trion (Trion)	3 NNE;RR W	722	21 S1	80 oct. Hwy E.
Parkmart	2 ENE;RR W	800	20 S1	80 oct. Pole line W.
Rome	3 NW;RR S	669	25 S6	80 oct. No storage.
R. Russell (Rome)	7 N;hwy W	644	45h	

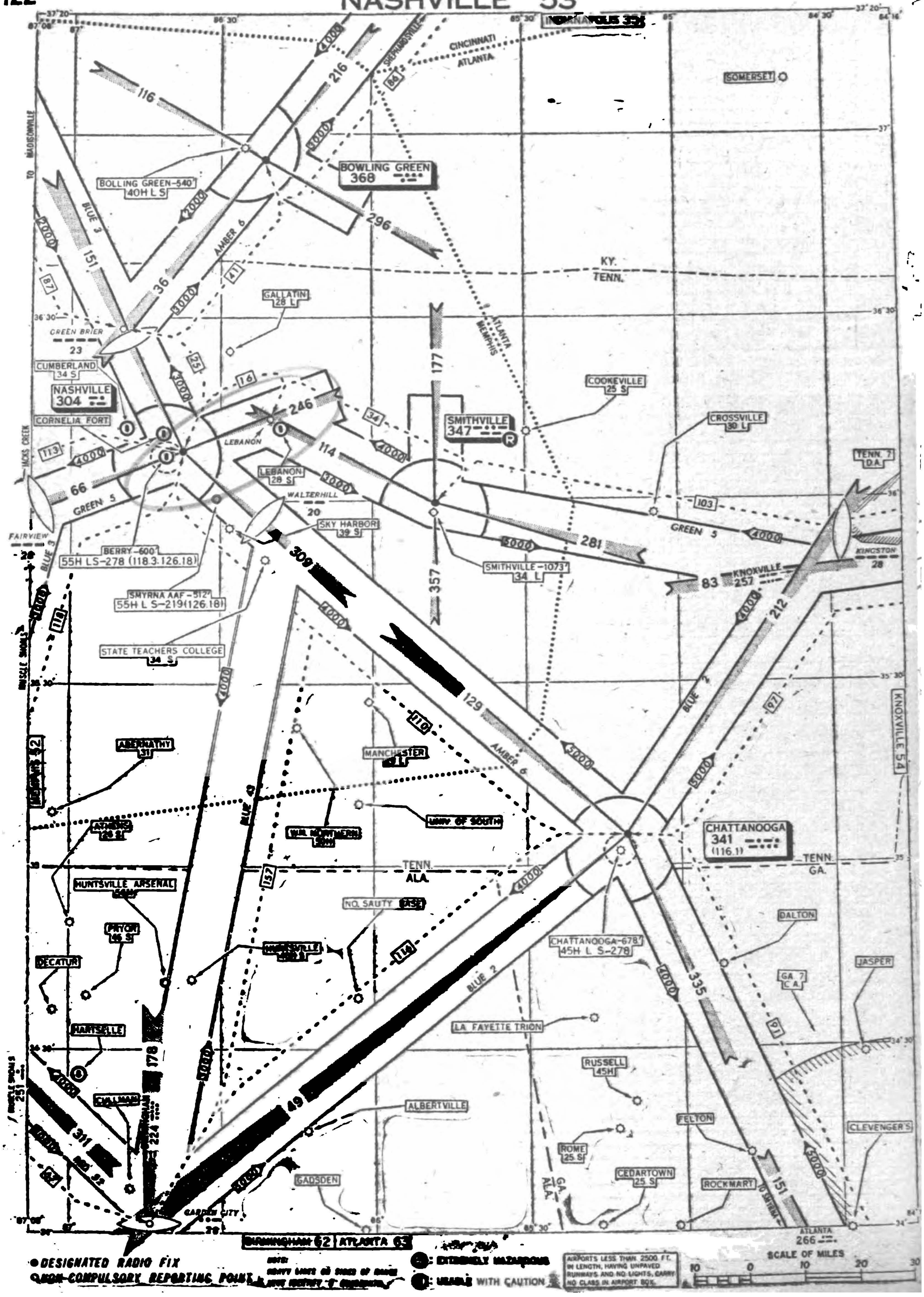
KENTUCKY

Bowling Green	2.5 SSE;hwy W	540	40h R1 L5 S4	80 oct. No sto. Fld lgts prior req.
Somerset	5 N; RR W		20 S2	80 oct. Data not verified.

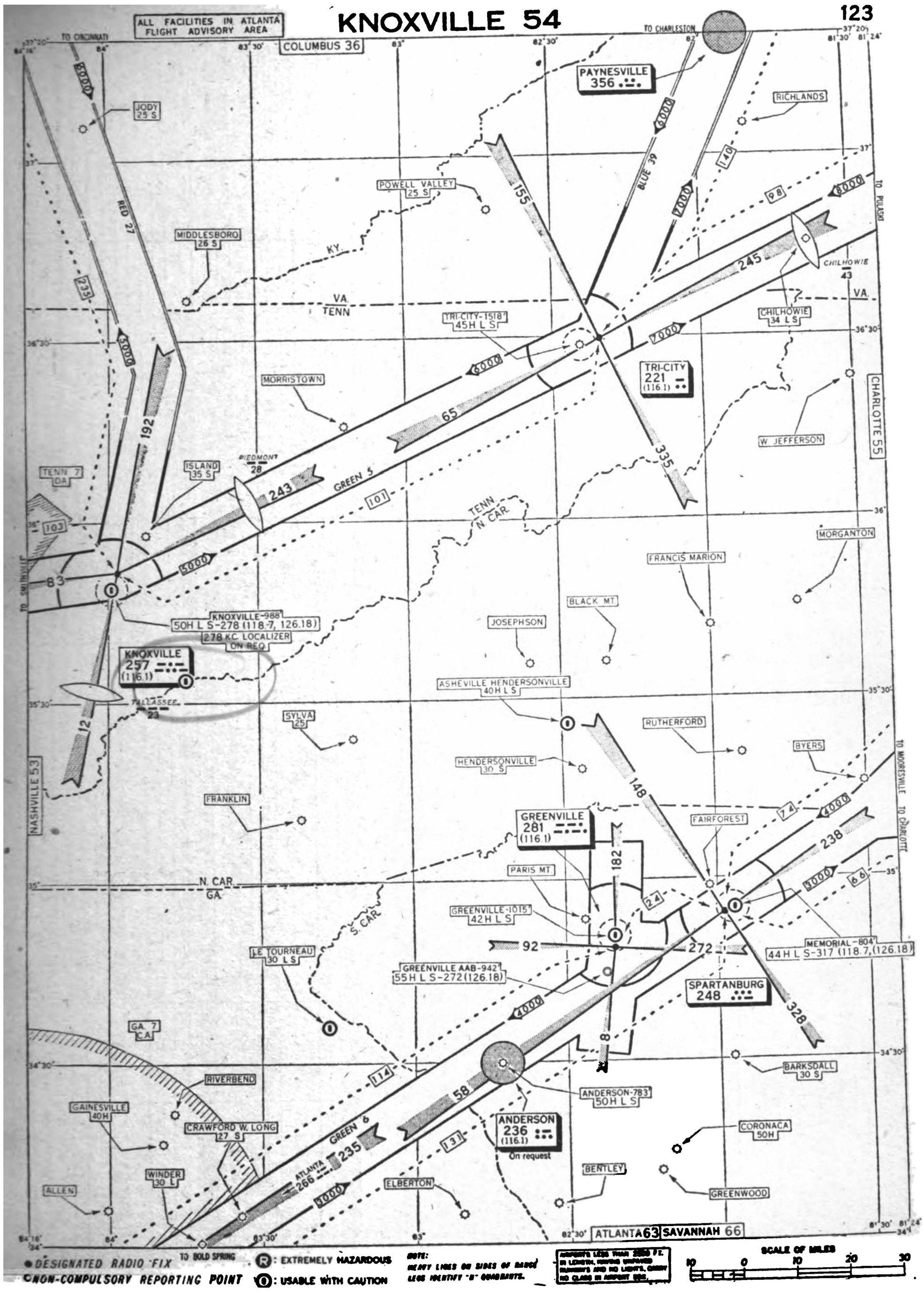
TENNESSEE

Abernathy (Pulaski)	3.6 SSW;hwy NE	650	31 S1	80 oct. Trees E.
Berry (Nashville)	6 SE;hwy S	600	55h R3 L6 S6	73,100 oct.
Bryd (McMinnville)(NC)	4.6 SW;RR N	1000	20	
CHATTANOOGA	5.5 E;RR E	678	45h R2 L5 S6	80,91 oct.
Cookeville	1.5 NNE;RR N	1050	25 S4	80 oct. Sto in emerg. Poles W.
Camellia Fort (Nashville)	4 ENE;riv E	420	30 S6	80 oct. Data not verified.
Crossville,9,NA-WA	3.3 WNW;hwy S	1862	30 L3	
Cumberland (Nashville)	3 NNW;riv N	400	34 S6	80 oct. No storage.
Gallatin Int,66,DL-LV	1.5 NW;hwy NE	557	28 L3	
Lebanon	1.8 SW;hwy E	522	28 S6	73 oct. No storage.
Manchester Int,16A,AC-WA	4.5 ESE;hwy SW	1090	29 L3	53' trees W,N.
Murfreesboro	7.3 NW;hwy SW	560	39 S6	73 oct. No storage. Poles NE.
Smithville Int,5,NA-WA	1 E;road S	1073	34 R1 L3	
Smyrna AAP (Nashville)(A)	17 SE;RR SW	512	55h R3 L5 S6	73,91,100 oct. JP-1. No rng.
State Teachers College(Murfreesboro)	2 E;hwy N	600	34 S4	80 oct. No storage. Poles N.
University of South (Cowan)	1.8 WNW;RR NE	870	23 S2	80 oct.
William Northern (Tullahoma)	2 WNW;road S	1081	50h	

NASHVILLE 53



KNOXVILLE 54



RADIO

SOUTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANDERSON	236 (AS)(116.1)	MHVT	(4); 116.1
GREENVILLE	281 (GC)(116.1)	BMLZ-VDT, 2°, 2	(4); 116.1
Greenville AAB	272 (126.18)	CA	(3); 126.18
MEMORIAL AIRPORT (Spartanburg)	317 (126.18)	C.	(4); 142.74, 131.9
SPARTANBURG (Memorial Arpt)	248 (SU)	SBRAZ-DT,58°,1.6	(4)

TENNESSEE

KNOXVILLE	257 (KX)(116.1)	SBRAZ-VDT	(4); 116.1
Knoxville Airport	278 (126.18)	C; 192°, 2.9	(4);142.74,131.9,118.7,126.18
Knoxville Airport	278	(Low powered range)	(4) (on req.)
PIEDMONT FM	(- -)	FM, 66°, 28	Knoxville
TALLASSEE FM	(- - -)	FM, 192°, 23	Knoxville
TRI-CITY	221 (TI)(116.1)	SBMRAZ-VDT,252°, 3.3	(4), 116.1

VIRGINIA

• CHILHOWIE FM	(-)	FM, 65°, 43	Tri City, Tenn.

WEST VIRGINIA

PAYNESVILLE	356 (IR)	H	Operated by P.C.A.(6-23)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Buford)	1.5 S,hwy SW	1070	15 S1	80 oct. Pole line SW.
Crawford W. Long (Jefferson)	2.5 S,RR E	950	27 L1 S1	80 oct. Pole line SE.
Elberton	2 SE,hwy W,N	710	16 S1	80 oct, Obst sur fld.
Gainesville	1.5 S,RR E,NW	1277	40h	
Le Tourneau (Toccoa)	2.5 NE,RR S	950	30 L3 S4	80, 91 oct.
Riverbend(Gainesville)	4.5 N, in bend of river	1200	17 S1	80 oct.Steep grade NNW end.
★ Winder Int,4,AG-LG	1.5 NE,bet rds	950	30 L3	Trees, bldg N.

KENTUCKY

Jody (London)	3 S,hwy E	1240	25 S2	80 oct.
Middlesboro	1.2 W,hwy S	1150	26 S4	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ASHEVILLE-HENDERSONVILLE (Ashev'l)	11.5 SSE,RR W	2090	40h L5 S4	73, 80, 91, 100 oct.
Black Mountain	1,8 SW,RR N	2270	15 S1	80 oct. Soft.
Byers (Shelby)	3 SE,RR SW	875	16 S2	80 oct.
Francis Marion (Marion)	2.5 NE,RR NE	1450	19 S2	80 oct.
Franklin	1.2 ESE,riv W	1996	23 S2	80 oct.
Hendersonville	1.5 ESE,hwy SW	2200	30 S6	80, 91 oct.
Josephson (Asheville)	3 W,riv E	2200	20 S1	Ltd 80 oct. Trees NW,SE.
Morganton	2 NW,riv E	1024	16 S2	80 oct.
Morganton-Lenoir (Morganton) (NC)	7.5 NE	1253	33 S2	No fuel.
Rutherford(Spindale)	1.5 SSE,RR N	1012	17 S2	80 oct.
Sylva	2.4 NE,riv SW	2039	25 S2	No fuel.
West Jefferson	2 SSW,RR NNE	3200	16 S2	No fuel.

SOUTH CAROLINA

Anderson	4.5 WSW,hwy S	783	50h R1 L5 S6	80, 91 oct.
Barksdale (Laurens)	2.8 E,RR NE	700	30 S6	73 oct. Pole line NE.
Bentley (Calhoun Falls)	3 ENE,RR NNW	500	16	
Chesnee	2 S,RR W	910	18	PRIVATE.
Coronaca (Greenwood)	3.8 N,RR E	629	50h	
Fairforest (Spartanburg)	5.8 WNW,rd W	830	23 S6	80 oct.
(N) GREENVILLE	3.2 E,RR SE	1015	42h R1 L5 S6	80 oct.
(A) Greenville AAB (A)	7.5 SSE,hwy W	942	55h R1 L5 S6	73, 91, 100 oct. No sto.
Greenwood	2.6 W,RR E	650	24 S6	73 oct.
(N,P) MEMORIAL (Spartanburg)	2.5 SW,hwy SE	804	44h R2 L5 S6	80, 91 oct. 100 oct. for military.
Paris Mountain (Greenville)	4.2 NNW,RR E	1006	21 S6	80 oct. Pwr line NW.

TENNESSEE

Island (Knoxville)	2.5 E	830	35 S4	80 oct. No sto.
(P) McGHEE-TYSON (Knoxville)	12 SSW,hwy E	988	50h R2 L5 S6	91, 100 oct.
Morristown	5.7 ENE	1400	19 S1	73 oct.
TRI-CITY	11.8 NNW Johnson City	1518	45h R1 L5 S6	80, 91 oct. 10.2 ESE Kingsport.

VIRGINIA

★ Chilhowie Int,29B,NA-WA	3.9 SE,riv N	2100	34 L3 S4	80 oct. Pole lines SW,NE.Riv SW.
Powell Valley (Big Stone Gap)	4 ESE,hwy NW	1700	25 S4	80 oct.Pole line ENE,hills W.
Richlands	2.7 WSW,RR N	1950	20 S2	80 oct.

RADIO

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHARLOTTE (Douglas)	212(CF)(116.1)	BMLZ-VDT; 359°,1.7	(4); 116.1
DOUGLAS ARPT. (Charlotte)	396 (126.18) (118.9)	C	(4); 126.18,118.9,131.9, others on req.
GREENSBORO	365(GW)(116.1)	SBRAZ-VDT	(4); 116.1
Greensboro-High Pt. Airport	219 (126.18) (118.7)	C; 241°, 1.5	(4); 118.7,126.18
POPE (Fort Bragg)(Army)	338(DOP)(116.1)	SBMRAZ-V	(3); 116.1
Pope Field	396 (126.18) (116.1)	CA(ILS);355°,2.5	(3); 116.1,126.18
RALEIGH (Raleigh-Durham Airport)	350(DU)(116.1)	SBRAZ-VDT;299°,3.8	(4); 116.1
SMITH-REYNOLDS AIRPORT (Winston-Salem)	278 (126.18)	C	(4); 140.1,142.74,126.18, 118.3,131.9
WINSTON-SALEM (Smith-Reynolds Airport)	379 (DWS)	MRLWZ; 328°, 5.1	
SOUTH CAROLINA			
FLORENCE	239(FL)(116.1)	SBMRLZ-VDT;292°,1.7	(4); 116.1
VIRGINIA			
DANVILLE	344(VE)(116.1)	MHVT	(4); 116.1
PULASKI (Loving)	272 (US)	SBMRAZ-DT;247°,2.1	(4)
ROANOKE (Woodrum Fld)	317(RO)(116.1)	SBRAZ-VDT;349°,2	(4); 116.1
WOODRUM FIELD (Roanoke)	278 (118.5)	C	(4); 131.9,118.5,126.18

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs; Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
POPE, N.C.	110.3	335	360° Mag.	IM (.04)	MM ····· (4.00)	OM — — (4.18)
				MMK		OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

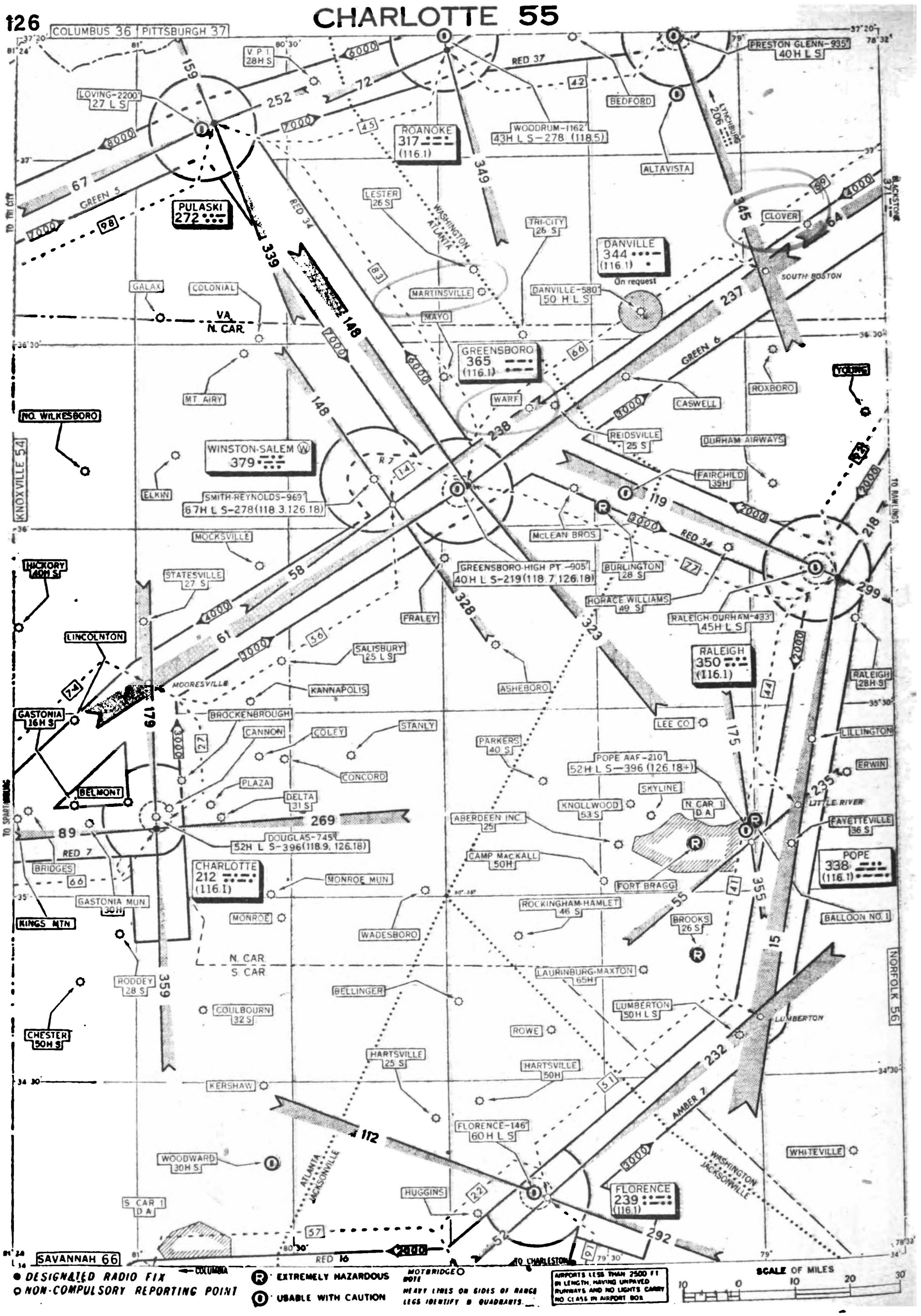
AIRPORTS

NORTH CAROLINA

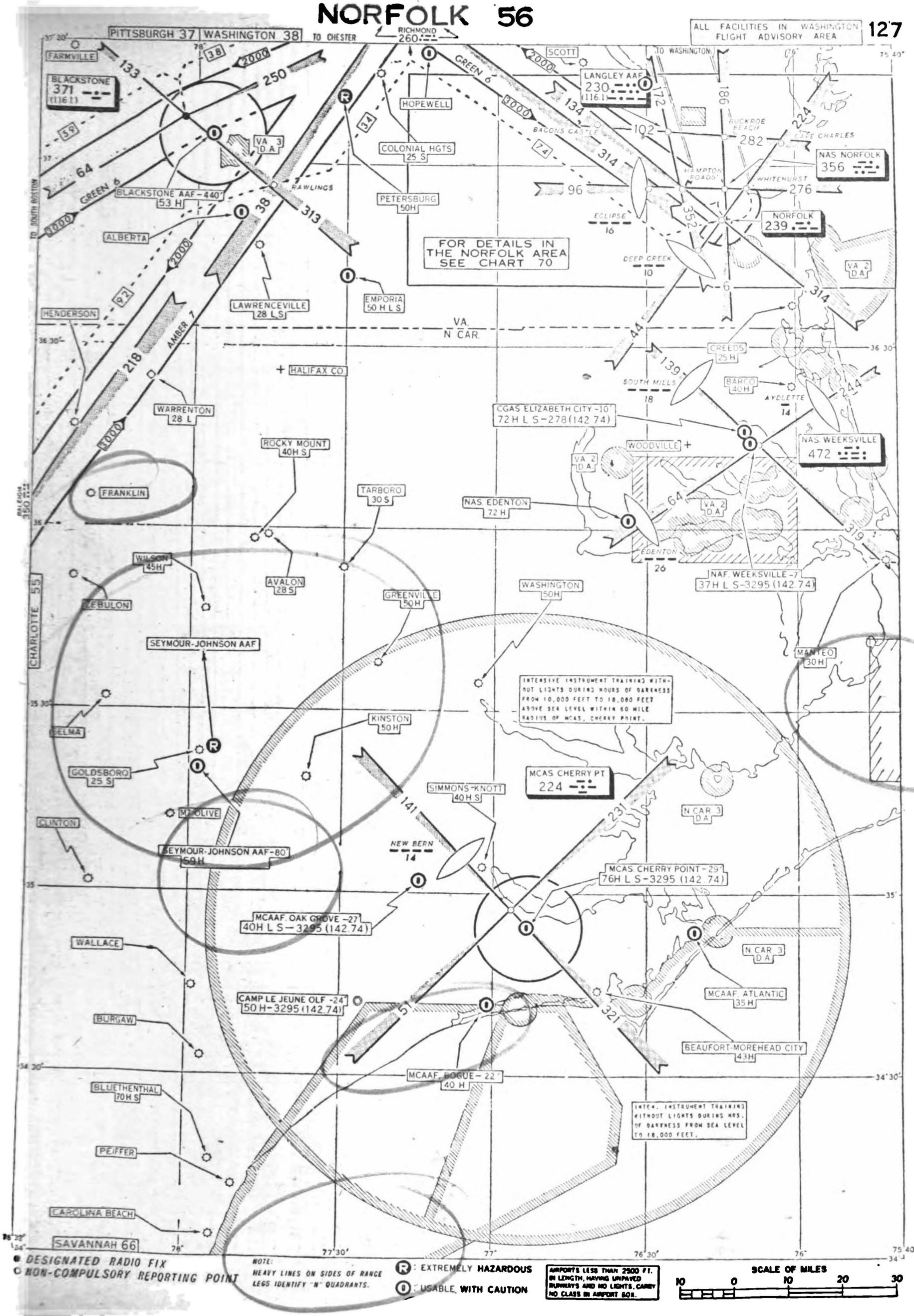
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen Inc.	1.2 W; RR N	450	25	Obsts sur fld.
Ashboro	1.8 SSW;hwy NW	864	18 S2	80 oct.
(A) Balloon (Ft. Bragg)(A)	1 NNW; RR E	225	22	Closed to all acft.
Belmont	1.3 NE;riv E	740	18 S1	80 oct. Pole line, trees WNW.
Bridges (Kings Mountain)	1 SW; RR SE	930	17 S2	80 oct.
Brockenbrough (Derita)	3.8 WNW;RR E	800	22 S6	80 oct. Pole line SSE.
Brooks (Red Springs)	1.2 N; RR SE	208	26 S1	80 oct.
(P) Burlington	4 SW; hwy W	638	28 S6	80 oct. Pole line S.
Burris (Lincolnton)(NC)	2.2 SW; RR SE	960	10	UNUSABLE.
Camp MacKall (Hoffman)	3.5 E	350	50h	
Candor (NC)	1.1 E; RR N	710	19	Pole line WNW.
Cannon (Charlotte)	3 WNW; hwy S	788	24 L S6	73,80,91 oct. Flood lgts req.
Caswell (Yanceyville)	3.7 S; hwy W	640	20 L S1	80 oct. Flare pots prior req.
Coley (Concord)	2 SW; RR E	790	12 S1	80 oct. Trees ESE.
Colonial Flying Service (Mt. Airy)	1.4 NNE;RR S	950	15 S1	80 oct. Pole line, trees NNW.
Concord	4.5 ESE;rd E,S	700	19 S2	80 oct. Pole line NE.
Delta Air Base(Charlotte)	6.7 E; hwy S	750	31 S6	80 91 oct. No sto. Poles NW.
DOUGLAS (Charlotte)	5.5 W; RR N	745	52h R2 L5 S6	80,91 oct.
Durham Airways	7.8 N; RR E	310	14 S1	80 oct.
Elkin	2.8 SW;RR NNW	1100	24 S2	80 oct.Rnwy data unverified.
Erwin	1 SW; riv SW	195	30 S1	80 oct. Pwr line S.
Fairchild-Civil (Burlington)	1.5 E; RR S	640	35h	
Fayetteville	5 N; hwy E	238	36 L1 S6	80 oct. Pwr line E.
Fraley (High Point)	2.5 SSE;RR W	1000	17 S6	80 oct. Strips rough. Trees SE.
Gastonia	1.3 SW	795	16h S4	80 oct. Pwr line SW.
" mun.	4.5 SSE;hwy SW	800	30h	
(A) GREENSBORO-HIGH POINT	8 WNW; RR SW	905	40h R2 L5 S6	80,91,100 oct.
Hickory	2.2 W;RR S	1180	40h S6	80,91 oct.
Horace Williams (Chapel Hill)	1.3 NNW;RR W	502	49 S4	80 oct.
Kannapolis	2.8 N; RR E	750	23 S6	80 oct. Trees WNW.
Kings Mountain	3.5 SW; RR SE	980	23 S2	80,91 oct.
Knollwood (Pinehurst)	5 NE; hwy W	455	53 L5 S4	80,91 oct.
Laurinburg-Maxton(Maxton)	3.5 N;riv E	220	65h	
Lee County (Sanford)	1.5 SE;RR E	400	19 S4	80 oct. No sto. Pwr line sur fld.
Lillington	1.1 NNE;RR S	210	15 S2	80 oct.Pole line NW.
(P) Lumberton	3 WSW;hwy NNW	126	50h L2 S6	80,91 oct.
McLean Brothers (Gibsonville)	0.5 SW;hwy NE	723	18 S6	80 oct.
Mayo (Mayodan)	0.8 W; riv E	900	24 S1	80 oct.
Mocksville	2 W; RR E	800	14 S2	80 oct.
Monroe, com	2.8 SSE	600	20 S2	80 oct.
" mun	2 NNW; hwy S	680	20 S1	80 oct. Trees NW.
Mt. Airy	2.2 SW;RR E	1050	20 S2	80 oct.
North Wilkesboro	1.3 WSW;riv S	970	15 S4	80 oct.
Parkers (Eagle Springs)	1.8 NW;RR S	700	40 S1	80 oct.
Plaza (Charlotte)	5 NE; RR N	740	20 S6	80 oct.
(A) Pope (Ft. Bragg)(A)	2 NW; riv NW	210	52h R3 L5 S6	73,91,100 oct.
Raleigh	3.3 SSW;RR W	364	28h S6	80,91 oct.
RALEIGH-DURHAM(Raleigh)	10.5 NW;RR W	433	45h R1 L5 S4	80,91 oct.
Reidsville	3.2 SE;riv S	822	25 S6	80 oct.
(P) Rockingham-Hamlet	3.5 S; RR E	358	46 S2	80 oct.
Roxboro	7 NE; RR W	600	18 S1	80 oct.
Salisbury	3 SW; RR E	764	25 L2 S6	73 oct.
Skyline (Southern Pines)	4.5 NE;RR NW	460	21 S4	80 oct. No sto. Pwr line S.
SMITH-REYNOLDS (Winston-Salem)	2.8 NNE;RR W	969	67h R2 L5 S6	80,91 oct. Rnwy data unverified.
Stanly (Albermarle)	6 WNW;hwy S	720	16 S1	80 oct.
Statesville	4.5 WSW;RR SE	990	27 S2	80 oct. Trees N.
Tri-City (Draper)	1.2 W; riv W	560	26 S2	80 oct.
Wadesboro	3.7 NNE;RR S	220	18 S4	80,91 oct.
Warf (Reidsville)	3.8 SW; hwy W	820	23 S2	80 oct. Trees N, S.
Whiteville	3.7 S; RR N	60	18 S1	Ltd 80 oct.
Young Airfield (Oxford)	1.8 SW; RR NW	475	16 S1	Ltd 80 oct.
SOUTH CAROLINA				
(P) Chester	5 NNE;RR W	709	50h S4	80 oct. No sto.
Coulbourn (Lancaster)	1 SSW;hwy SW	560	32 S4	80 oct.
Florence	3.5 E; RR SW	146	60h R1 L5 S1	80,91 oct.
Hartsville	2.1 NNE;hwy S	230	25 S2	80 oct.
(P) Hartsville (Darlington)	10 N; hwy E	190	50h	
Huggins (Timmonsville)	1.5 ENE;hwy NW	149	18 S4	80 oct. Pwr line NNW.
Kershaw	4 S; RR W	475	21	
Little Rock (NC)	2.5 SE;hwy W	135	22	Poles around fld.
Lynch Bellinger (Cheraw)	4.2 WNW;RR S	400	22 S4	80 oct. No.sto.Pole line S,WSW.
Palmer (Bennettsville)	3.4 NNW;hwy E	155	44	Not maintained as landing fld.(NC)
Roddy (Rock Hill)	2.7 SW; RR NW	664	28 S4	80,91 oct.Pole line S.
Rowe (Bennettsville)	1.5 NE	190	29 S5	80,91 oct.Trees SW.
(P) Woodward (Camden)	2.9 NE; hwy E	300	30h S4	80 oct.
VIRGINIA				
Altavista	6.1 NE;RR S	650	18 S1	80 oct. Trees SW.
Bedford	1.3 WSW;RR N	1050	16	PRIVATE.
(P) Danville	3.4 ESE	580	50h R1 L5 S6	80,91 oct.
Galax	6.5 S;hwy E	2575	27 S4	80 oct.
Lester (Martinsville)	0.8 NNW;RR NE	1000	26 S2	80 oct.20-75' bldgs SE.
Loving,35A,NA-WA(Pulaski)	2.8 N;RR SE	2200	27 R1 L3 S4	80 oct.Poles SW.No sto.
Martinsville	3.5 SSE;RR NE	800	16 S2	73 oct.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
V.P.I. (Blacksburg)	1.3 SSE;RR W	2100	28h L1 S6	73,80 oct. Strip rough.
(P) WOODRUM (Roanoke)	4.2 NNW;rd W	1162	43h R2 L5 S6	80,91,100 oct.
Clover	3.5 SSW;riv E	350	20	Trees E,W,SE,NW,House E,SE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

CHARLOTTE 55



NORFOLK 56


PITTSBURGH 37 | WASHINGTON 38
TO CHESTER
RICHMOND 260
ALL FACILITIES IN WASHINGTON FLIGHT ADVISORY AREA
FARMVILLE
BLACKSTONE 371 (116.1)
LANGLEY AAF 230 (116.1)
SCOTT
TO WASHINGTON
HOPEWELL
GREEN 6
BACONS CASTLE
COLONIAL HGTS. 25 S
VA 3 D A
BLACKSTONE AAF - 440' 53 H
PETERSBURG 50H
RAWLINGS
ALBERTA
ECLIPSE 16
DEEP CREEK 10
BUCKROE BEACH
CAPE CHARLES
NAS NORFOLK 356
HAMPTON ROADS
WHITEHURST
NORFOLK 239
FOR DETAILS IN THE NORFOLK AREA SEE CHART 70
VA 2 D A
LAWRENCEVILLE 28 L S
EMPORIA 50 H L S
HENDERSON
VA.
N CAR.
HALIFAX CO
CREEDS 25 H
SOUTH MILLS 18
BARCO 40H
AYDLETTE 14
WARRENTON 28 L
CGAS ELIZABETH CITY -10' 72 H L S-278 (142.74)
NAS WEEKSVILLE 472
WOODVILLE
ROCKY MOUNT 40H S
FRANKLIN
TARBORO 30 S
NAS EDENTON 72 H
EDENTON 26
NAF WEEKSVILLE -7 37 H L S-3295 (142.74)
WILSON 45H
AVALON 28 S
ZEBULON
GREENVILLE 50H
WASHINGTON 50H
MANTEO 30H
SEYMOUR-JOHNSON AAF
CHARLOTTE 55
INTENSIVE INSTRUMENT TRAINING WITHOUT LIGHTS DURING HOURS OF DARKNESS FROM 10,000 FEET TO 18,000 FEET ABOVE SEA LEVEL WITHIN 60 MILE RADIUS OF MCAS, CHERRY POINT.
SELMA
KINSTON 50H
GOLDSBORO 25 S
MCAS CHERRY PT 224
SIMMONS-KNOTT 40H S
MT OLIVE
CLINTON
SEYMOUR-JOHNSON AAF-80' 59 H
NEW BERN 14
N CAR 3 D A
MCAS CHERRY POINT -29' 76H L S-3295 (142.74)
MCAAF OAK GROVE -27 40H L S-3295 (142.74)
WALLACE
MCAAF ATLANTIC 35 H
CAMP LE JEUNE OLF -24' 50 H-3295 (142.74)
BEAUFORT-MOREHEAD CITY 43H
BURGAW
MCAAF ROGUE-22' 40 H
INTEN. INSTRUMENT TRAINING WITHOUT LIGHTS DURING HRS. OF DARKNESS FROM SEA LEVEL TO 18,000 FEET.
BLUETHENTHAL 70H S
PEIFFER
CAROLINA BEACH
SAVANNAH 66
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
R : EXTREMELY HAZARDOUS
O : USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT SOI.
SCALE OF MILES
10 0 10 20 30

RADIO

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS, GUARDED, HRS. OF OPER., REMARKS
AYDLETTE FM (Navy)	(-)	FM, 64°, 14	Weeksville NAF
CAMP LE JEUNE OLF (New River)	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
CHERRY POINT (Navy)	224 (NKT)	BMRLZ	(3); 140.58, 142.74
Cherry Point MCAS	3295 (142.74)	CN, 141°, 4	(3); 142.74 (6-19)
EDENTON FM (Navy)	(- - -)	FM, 244°, 26	Weeksville NAF
ELIZABETH CITY CGAS	278 (142.74)	CN	(3); 142.74 (7-19)
NEW BERN FM (Navy)	(- - - -)	FM, 321°, 13.6	Cherry Point MCAS
OAK GROVE MCAAF (Polloksville)	3295 (142.74)	CN	3105;142.74 (8-18)
[redacted]			
SOUTH MILLS FM (Navy)	(- - - -)	FM, 319°, 17.5	Weeksville NAF
WEEKSVILLE (Navy)	472 (NFG)	MRL	500,3105; 142.74 (7-19)
Weeksville NAF-LTA	3295 (142.74)	CN, 319°, 0.5	3105; 142.74 (8-1630)
VIRGINIA			
BLACKSTONE (AAF)	371 (KT)(116.1)	BMLZ-VDT,133°,5.5	(4); 116.1
DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk
LANGLEY FIELD (Army)	230 (DLY)(116.1)	SBMRAPZ-VDT	(3); 116.1
NORFOLK	239 (NW)	SBMRLZ-DT, 44°,3.4	(4)
Norfolk NAS (Navy)	356 (NGU)	BMRLZ, 276°,2.9	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105.4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Atlantic MCAAF (N)	0.8 NW,hwy SE	24	35h	INACTIVE
Avalon (Rocky Mount)	3.8 NE,RR W	120	28 S2	80 oct.
Barco Flight Strip	2.4 W,hwy S	19	40h	
(P) Beaufort-Morehead City	1 N, riv W	13	43h	
(P) BLUETHENTHAL	2.4 NNE, RR W	30	70h L5 S4	80-100 oct. (Wilmington)
(N) Bogue MCAAF (N)	5.6 E Swansboro	22	40h	INACTIVE.
Burgaw	1.2 W,hwy N,S	30	22 S1	80 oct. Pwr line SSE.
(N) Camp LeJeune OLF (New River)(N)	2.5 S Jacksonville	24	50h R1	
Carolina Beach	2.2 NNW,hwy E	32	16 S1	80 oct. (ltd)
(N) Cherry Point MCAS	2.5 SW,riv N	29	76h R2 L5 S6	100 oct. (N)
Clinton	2 N, hwy W	160	24 S6	80 oct. Pole line W
(N) Edenton NAS (N)	3.5 SE	19	72h	INACTIVE
ELIZABETH CITY CGAS	3.5 SE,riv NE	10	72h R1 L6 S4	91, 100 oct.
Ⓐ Elizabeth City CGAS	3.5 SE	S.L.	106 L1 S4	91,100 oct. Ramps, all facs. (NC)
Franklin(Louisburg)	2 WSW,hwy S	290	20 S4	80 oct. Hi-line S
Goldsboro	1.3 E,hwy S	110	25 S1	80 oct. Pole line NNE
(P) Greenville	1.8 NNW	25	50h	
Halifax Co.(Roanoke Rapids)	3 SW,hwy N	140	25 S1	80 oct. Data not verified.
‡ Harvey Point (Elizabeth City) (NC)	13 S	S. L.	Unl.	Ramps
Henderson	3 S,RR W	490	23 S6	80,91 oct. No sto. Pole lines S. Rnwy data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14)(NC)-Not charted.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Jacksonville (NC)	3.7 NE,RR SE	51	14	
(P) Kinston	4.2 NNW	93	50h	
Manteo	1.5 NW,rd NE	12	30h	
Mt. Olive	1.1 NE,RR E	160	15 S1	80 oct.
(N) Oak Grove MCAAF (Polloksville) (N)	2.5 NW,riv S	27	40h R1 L S4	91, 100 oct.
Peiffer(Wilmington)	6 ESE,ocean E	10	18 S1	80 oct. Poleline NNE,trees N,S,SW.
ROCKY MOUNT	2.3 N,RR E	114	40h S3	80 oct. Use rnwys only.
Selma	0.5 E,RR W,S	150	19 S4	80 oct. Pole line E.
(A) Seymour-Johnson (Goldsboro) (A)	3 SSE,riv SW	80	50h	INACTIVE
SIMMONS-KNOTT	2.5 SSE	19	40h S1	80, 91 oct. (New Bern)
Tarboro	2 ESE,riv NNW	50	30 S6	80 oct. No sto. Pole line NNE.
Wallace	0.8 N,RR SW	50	18 S1	80 oct.
★ Warrenton Int,46,JX-RW	1.5 NE,RR W	446	28 L3	
(P) Washington	1.8 N,hwy W	38	50h	
(N) Weeksville NAF(LTA)	2.2 NE	7	37h R2 L5 S4	91, 100 oct. (N)
(P) Wilson	4.2 NW,hwy E	161	45h	
Woodville (Elizabeth City)	9 WSW	15	19 S6	80 oct. No sto. Pole line S, SW. Data not verified.
Zebulon	3.5 NW,hwy E	324	16 S1	80 oct.
VIRGINIA				
Alberta	1.5 E,RR SW	380	17 S2	80 oct. Trees WSW.
(A) Blackstone AAF (A)	2.5 ESE,hwy N	440	53h R1	Closed to all acft. INACTIVE
Clarksville-Finchley	5 ENE,RR S	450	13	House, trees NW. (NC)
Colonial Heights (Petersburg)	2 NNE,RR W	60	25 S1	80 oct.
Creeds	1.5 E,bay E	10	25h	
Emporia	3 E,rd S	127	50h L5 S1	80,91 oct. Trees sur fld.
→ Hopewell	3.3 E,riv N	20	24 S6	80 oct.
Lawrenceville,49B, JX-RW	3.8 ENE,RR N	317	28 L3 S6	80 oct.
Petersburg	6.2 WSW,RR N	190	50h	
Scott (Williamsburg)	1.3 NNW,RR SW	90	20 S2	80 oct. Pole line SW,WNW.
William & Mary College (Williamsburg)	3 NNW,RR SW	105.	29	20-60' trees NE,SW,W. (NC)
→ Farmville	2.5 NW,riv N	325	20 S6	80 oct. Hill W.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALICE	224(EZ)(116.1)	SBRAZ-VDT,73°,3.3	(4);116.1
BROWNSVILLE (International Arpt)	388(JI)(116.1)	SBRAZ-VDT,157°,2.4	(4);116.1
CABANISS NAAS,(Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
CLIFF MAUS (Corpus Christi)	278(126.18)	C	(4);116.1,140.1,131.9,126.18
CORPUS CHRISTI (Cliff Maus Field)	382(CR)(116.1)	SBMRLZ-VDT,138°,2.9	(4);116.1
Corpus Christi (Navy)	248 (NGP)	MLZ	(3);142.74
Corpus Christi NAS	248 (142.74)	CN;350°,3.3	(3);142.74
Corpus Christi NAS (Seapl)	2870(142.74)	CN	3105;6210;142.74
CUDDIHY NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
FALFURRIAS FM	(- -)	FM, 163°, 35.5	Alice
GREGORY FM (Navy)	(-)	FM, 350°, 18	Corpus Christi NAS
INTERNATIONAL ARPT (Brownsville)	278 (126.18) (118.7)	C(ILS);157°,2.4	(4);126.18,118.7
LAREDO (AAF)	206(LL)(116.1)	SBRAZ-VDT,137°,3.3	(4);116.1
LOS FRESNOS FM	(- - - -)	FM, 338°, 8.9	Brownsville
MERCEDES FM	(- - -)	FM, 282°, 29.5	Brownsville
PALACIOS	350(UX)(116.1)	BMLZ-VDT,118°,1.7	(4);116.1
PLEASANTON FM	(- - -)	FM, 174°, 44.2	San Antonio
RODD NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
WALDRON NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
INTERNATIONAL, TEXAS	110.3		170° Mag.	IM	MM ·····(.66)	OM --(4.34)	
					MMK	OMK	

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.

AIRPORTS — TEXAS

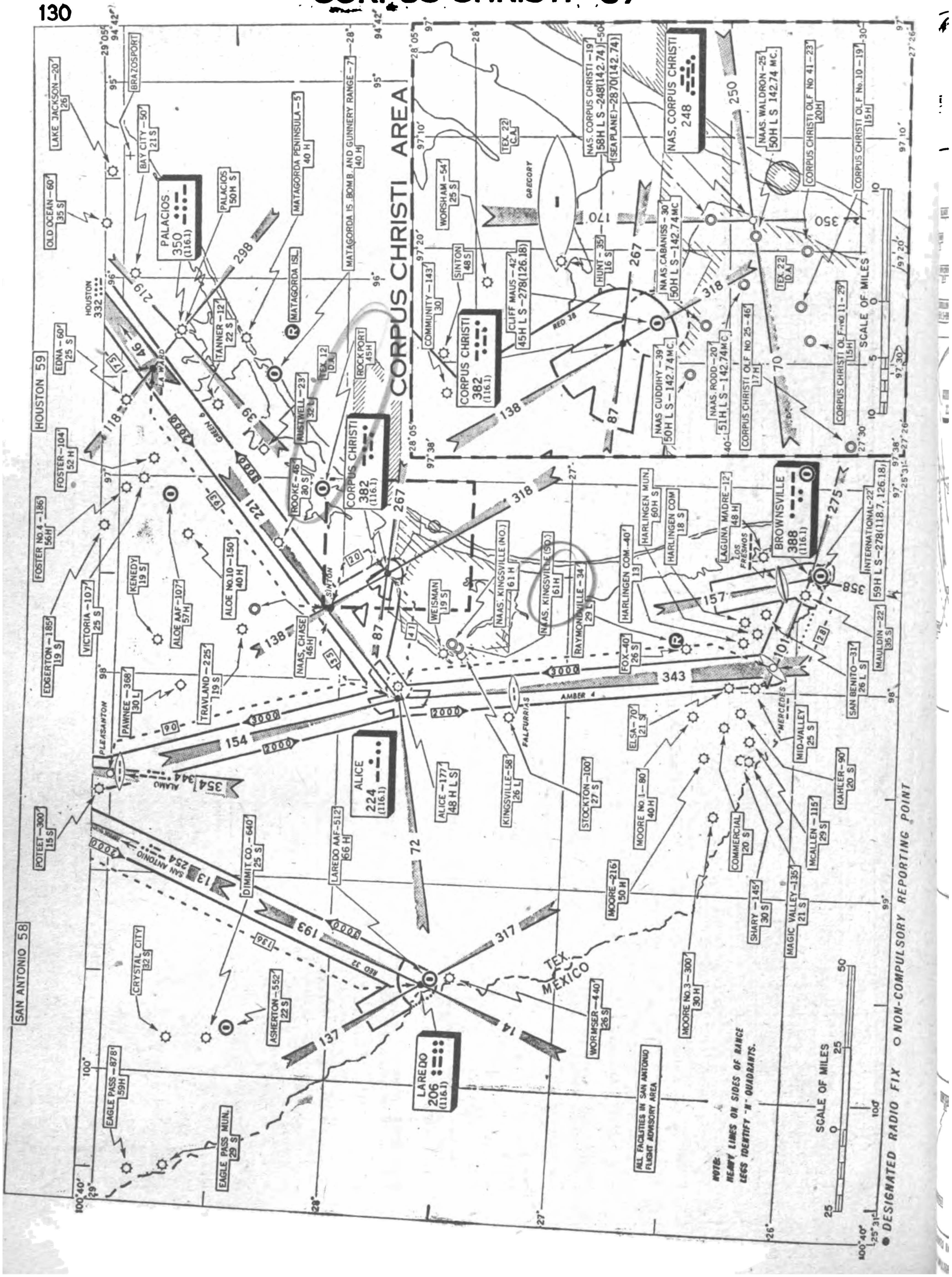
AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Alice	3.3 ESE;RR N	177	48h R1 L5 S6	80,91 oct.
(A) Aloe AAF (Victoria)(A)	6 WSW;RR SE	107	57h	INACTIVE.
" #10 (Victoria)	19.8 WSW	150	40h	
Asherton	1 S;RR NE	552	22 S1	80 oct.Poles N;trees sur fld.
★ Austwell Int,5A,CR-HU	2.1 SSW;bay NE	23	32 L2	Fence around fld.
Bay City	2 SSW;RR N	50	21 S6	80 oct.No sto.Pole line E.
Brazosport (Velasco)	1 N;hwy SW	6	24 S1	80 oct.Data not verified.
(N) Cabaniss NAAS (Corpus Christi)(N)	6.2 SSW;RR NE	30	50h R1 L5 S4	91 oct.
(N) Chase NAAS (Beeville)(N)	5.6 ESE;rd N	186	46h R1	INACTIVE.
Chupadera Ranch Emerg. Strip (Laredo)(NC)	60 NW	630	33 L1	
(N) CLIFF MAUS (Corpus Christi)	2.5 SW;RR N	42	45h R2 L5 S6	80,91 oct.No storage.
Commercial (Edinburgh)	1 W;RR SE	90	20 S1	73 oct.Pole line NW,NNW.
Community (Sinton)	2 W;RR SE	143	30	
(N) Corpus Christi NAS (N)	9.5 SE	19	58h R2 L5 S6	91,100 oct.NATS,NAFC.
(N) " OLP #10 (N)	15 S	19	15h	11 SSW Aberdeen.
(N) " OLP #11 (N)	16 SSW	29	15h	13 SSW Aberdeen.
(N) " OLP #25 (N)	23.5 SSW	46	17h	12.3 ESE Bishop.
(N) " OLP #41 (N)	16 SSE	23	20h	11.8 SSE Aberdeen.
Crystal City	1.8 N;RR W	600	32 S1	80,91 oct.Pole line NE,NW.
(N) Cuddihy NAAS (Corpus Christi)(N)	7.8 SW;crk S	39	50h R1 L5 S4	91 oct.
Central Valley(Mercedes)	1.5 NE;hwy S	62	31h S6	80,91 oct.Data unverified.
(N) Corpus Christi NAS (N)	9.5 SE	S.L.	Unl L3 S5	91,100 oct. Buoys;ramps. (NC)

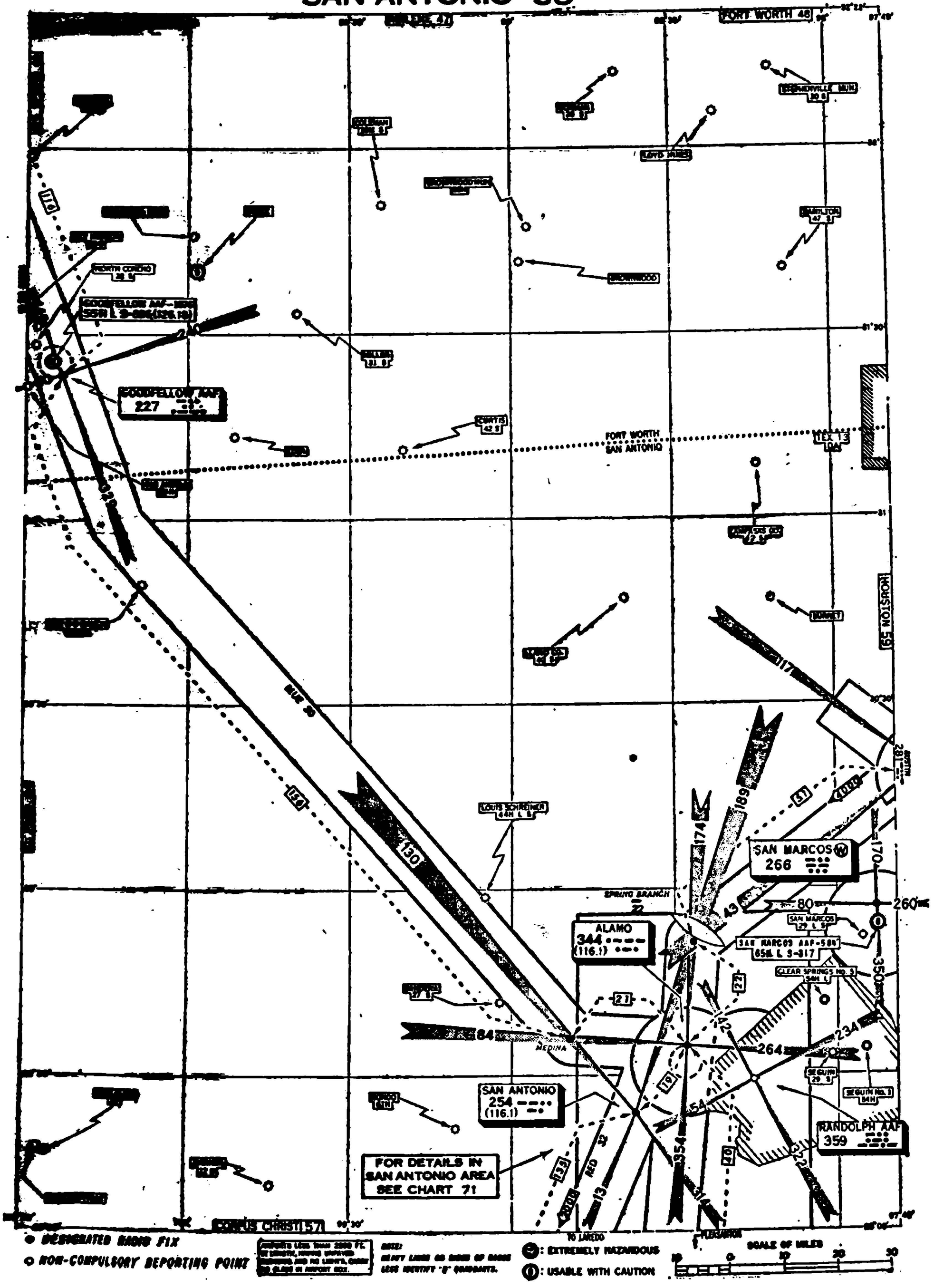
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

TEXAS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Dimmit Co.(Carrizo Sprgs)	2.8 E;hwy N	640	25 S1	Ltd 80 oct.Pole line ends strps.
Eagle Pass	10 N;RR N	878	59h	
" mun.	1.3 E;hwy N	774	29 S2	80 oct.ARPT OF ENTRY.
Cuero	3.1 N;RR SE	195	53	
Edna	1.5 ENE;RR NW	60	25 S1	73 oct.Live stock on fld.
Elsa	1 SSE;RR N	70	21 S6	73 oct.Crop dusters.
Foster (Victoria)	6.5 NE;RR S	104	52h	
" #4 (Victoria)	12.5 NNW	186	56h	
Fox (Raymondville)	1 WSW;RR S	40	26 S2	73,80 oct.Poles W,SE.
Freer (NC)	3.8 NNW;hwy E	375	28	Trees sur fld.
Harlingen, com.	1.8 SSW;hwy E	41	18 S1	73 oct.
" com.	5 NW;RR SW	40	13	Pole line S.
" mun.	3.5 NE;rd S	35	60h L5 S4	80,91 oct.Lgts prior req.
Hunt (Portland)	2 WNW;RR ESE	35	16 S5	80 oct.
Indianola (Magnolia Beach)	2 SW;hwy N	17	34	PRIVATE.
(P) INTERNATIONAL (Brownsville)	4.5 E;hwy N	22	59h R3 L5 S6	73-100 oct.ARPT OF ENTRY.
Kalher (Alamo)	4 NNE;RR W	90	20 S1	73 oct.Poles sur fld.
Kenedy	1.4 ESE;RR N	270	19 S2	80 oct.
★ Kingsville Int,11,JI-FV	3.5 S;RR W	58	26 L3	
(N) " NAAS (North) (N)	3.5 ESE;hwy NW	47	61h	INACTIVE.
(N) " NAAS (South) (N)	3.5 SE;hwy W,N	51	61h	INACTIVE.
Laguna Madre (Harlingen)	10 NE of Los Fresnos	12	48h	
Lake Jackson (Freeport)	9.5 NW;hwy E	20	26	Cattle on fld.Trees SW.
Lake Mathis (Mathis)(NC)	5 WSW;RR SE	161	20	
La Laja (Delores)(NC)	1.5 NNE;riv SW	475	18	PRIVATE.15-20' brush W,S.
(A) LAREDO AAF (A)	3.5 NE;hwy NNE	512	66h R1 L5	INACTIVE,B2 lgts for Airlines.
Los Fresnos	0.8 SSE;RR W	35	24 S1	73,80 oct.Pole line W.
McAllen	1.6 SSW;hwy N	115	29 S6	73,80 oct.Poles E,NE.
Magic Valley (Mission)	1.5 SSW;lake W	135	21 S6	73 oct.No sto.Poles E.
(A) Matagorda Island (A)		7	40h	9 SSW Port O'Conner.INACTIVE.
Matagorda-Peninsula (Matagorda)	6.5 E Port O' Conner	5	40h	
Mauldin (Brownsville)	4.4 NNW;RR W	22	35 S6	80,91 oct.Poles W.
Mid-Valley (Weslaco)(NC)	1.7 NE;RR W	70	25 S1	80 oct.Pole line NW,SW.
Moore (Mission)	12 N;RR E	216	50h	
" #1 (Mission)	10 N Edinburg	80	40h	
" #3 (Mission)	5 N LaGrulla	300	30h	
Old Ocean	1 ENE;hwy N	60	35 S1	80 oct.Cattle on fld.
Palacios	2.7 WNW	13	50h R1 S1	80 oct.
★ Pawnee Int,22,JI-FV	5 WNW;RR W	368	30 L3	
Poteet	0.6 SW;RR E	300	13 S2	73 oct.
★ Raymondville Int,5,JI-FV	3.5 NNE;RR W	34	29 L3	
(P) Rockport	4.3 N;bay W	23	45h	
(N) Rodd NAAS (Corpus Christi)(N)	9.8 S;RR NE	20	51h R1 L5 S4	91 oct.No storage.
Rooke (Refugio)	3.2 WSW;RR E	46	30 S1	73 oct.Cattle on fld.Twr NW.
San Benito,2,JI-FV	1.5 E;RR SW	31	26 L3 S6	73,80 oct.
Shary (Mission)	1 NW;RR E	145	30 S4	73,80 oct.
Sinton	1.3 E;RR NW	27	48 S6	80,91 oct.No storage.
Stockton (Falfurrias)	2 NW;RR E	100	27 S1	80 oct.Lake SW.
Tanner Sea & Land Plane Base (Port Lavaca)	3 S;hwy S	12	22 S1	80 oct.Pwr line sur fld.
Travland (Beeville)	2 NW;RR E	225	19 S2	80 oct.Poles E.
Victoria	5.5 N;hwy SW	107	25 S6	80 oct.
(N) Waldron NAAS (Corpus Christi) (N)	12 SSE;hwy NNE	25	50h R1 L5 S4	91 oct.No storage.
Weisman (Kingsville)	2.5 NNE;RR S	60	19 S4	Ltd 80 oct.Poleline S,SW,SE.
Wormser (Laredo)	4 SE;hwy W	440	26 S1	80,91 oct.
Worsham (Taft)	0.8 ENE;hwy SW	54	25 S6	80 oct.

CORPUS CHRISTI 57




FORT WORTH 48
HAMILTON
LOUIS SCHREINER
SAN MARCOS
266
ALAMO
344
(116.1)
SAN ANTONIO
254
(116.1)
RANDOLPH AAF
359
FOR DETAILS IN SAN ANTONIO AREA SEE CHART 71
CORPUS CHRISTI 57
FORT WORTH SAN ANTONIO
SPRING BRANCH
MEDINA
10 LAREDO
I-35 NORTHBOUND
BUS 90
130
281
ALAMO
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMO (San Antonio)	344(JR)(116.1)	BMLZ-VDT	(4); 116.1
GOODFELLOW (San Angelo) (Army)	227 (DIP)	BMRLZ	(3)
Goodfellow Field	396 (126.18)	CA; 329°, 2.5	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
SAN ANTONIO (Kelly)	254(ZN)(116.1)	SBRAZ-VD.107°.1.8	(4); 116.1
SAN MARCOS (Army)	266 (DMS)	MRLWZ	
San Marcos AAF	317	CA; 170°, 4.5	(3); 266 (days only)
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

AIRPORT CITY NAME	CLASS	ELEV.	LOCATION	REMARKS
Ballinger	2.5 NW;RR E	1710	20 S1	80 oct.Pole line SSW,SSE.
Bandera	3 SE;hwy NNE	1125	27 S6	80 oct.Trees E.
Brackettville	2.6 W;hwy N	1105	17 S1	Ltd 80 oct.
Brownwood	1 S;hwy W	1310	22	Poles SE,ESE,E.
(A) " mun.	6.3 NNE;RR S	1386	50h	INACTIVE.
Bruce (Ballinger)	4.5 SSW;RR NW	1731	23h	Allway: 7497 x 5280'.
Burnet	2 NE;RR W	1325	21 S1	80 oct.Pole line SW.
C-B Ranch (Ft.McKavett)	1.5 W;rd S	2150	32 S1	80 oct.Livestock on fld.
(A)-Clear Springs #5 (New Braunfels) (A)	4,8 E;riv SW	640	54h L	Ctc lgts only.
Coleman	1.7 NE;RR S	1685	16h S6	80,91 oct.Use rnwys only.
Comanche (NC)	1.7 NNW;hwy SW	1500	14	
Curtis (Brady)	3 N;hwy SE	1830	42 S1	Ltd fuel.
Eden	1 NW;hwy E	2050	15 S1	73 oct.Trees NE,SW.
(A) Fort Clark(Brackettville)	1.5 SW;rd E	1105	30	(A)
Garner (Uvalde)	2.7 E;hwy N	930	17h S1	80 oct.
(A) Goodfellow (San Angelo)(A)	3 SE;rds N,W	1876	55h R2 L5 S6	73,91,100 oct.JP-1.
Gorman	1 S;RR NE	1400	26 S2	80 oct.Poles NNE.
Hamilton	2.3 SSW;hwy E	1250	47 S6	80 oct.Fence sur fld.
Hondo	2.1 NW;RR S	929	61h	
Lampasas Co. (Lampasas)	6 NW;RR S	1480	42 S2	80 oct.
Llano County (Llano)	2.4 NNE;riv NE	1029	40 S1	73 oct.
(P) Louis Schreiner(Kerrville)	3.9 SE;RR SW	1590	44h L5 S6	80 oct.
Loyd Hines (Dublin)	1.3 NW;RR SW	1260	18 S1	73 oct.Poles NW,SW,SE.
Mason County (NC)	3.2 ESE;hwy N	1500	44	
Miller (Leaday)	1 S;riv W	1525	31 S6	73 oct.No storage.
North Concho (San Angelo)	1.7 WNW;RR E	1850	28 S4	80 oct.Poles sur fld.
Riomedina (Castroville)	4.5 N;riv W	855	45	(NC)
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S2	80,91 oct.
(A) San Marcos AAF (A)	5 E;riv W	584	65h R2 L5	
★ " Int,31B,JI-FV	2 SE;hwy N	577	29 L3 S6	73,80 oct.Pole line NE.
Schneider (Seguin)(NC)	2.2 WNW;RR N	520	23	Pole line N.
Seguin	3.3 WSW;riv E	400	29 S1	73,80 oct.Pole line NW.
(A) " #1 (A)	3 E;rd N	530	54h	
Sherril (Rock Springs)(NC)	4 W;hwy S	2400	21	Cattle on fld.
Sky Harbor (San Angelo)	4.6 NNW;RR SW	840	30 S1	80 oct. Pole line W,NW.
South Coleman (Coleman)	1 S;hwy NW	1710	21	CLOSED (not maintained)(NC).
Stephenville	1.5 E;hwy S	1310	30 S6	80 oct.
White (Brady) (NC)	10 W;RR N	1550	73	
Winters	2 NW;RR E	1860	29 S1	73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 144): (NC)-Not charted.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANCOLA FM	(-)	FM, 226°, 15	Houston
AUSTIN (Robert Mueller Arpt)	281(XN)(116.1)	SBMRLZ-VDT,117°,2	(4); 116.1
BERGSTROM FIELD (Austin)	396 (126.18)	CA	(4); 126.18
HOUSTON	332(HU)(116.1)	SBRAZ-VDT	(4); 116.1
Houston Airport	278 (126.18) (118.5)	AC; 309°, 2.5	(4); 131.9,126.18,118.5
HOUSTON LFM	(- - - -)	LFM, 309°, 5.5	Houston
HAVASOTA (Int)	212(HT)(116.1)	BMRL-VDT,180°,1.3	(4);116.1
RICHMOND	391 (UT)	MRLW	
ROBERT MUELLER ARPT. (Austin)	272 (126.18)	C	(4);116.1,140.1,131.9,126.18
WACO (Mun)	385(WC)(116.1)	SBRAZ-VDT,9°,2.6	(4);116.1
WEBSTER FM	(- - - -)	FM, 129°, 9.3	Houston
YOAKUM (Int)	236 (YK)	HW-T,352°,2.8	

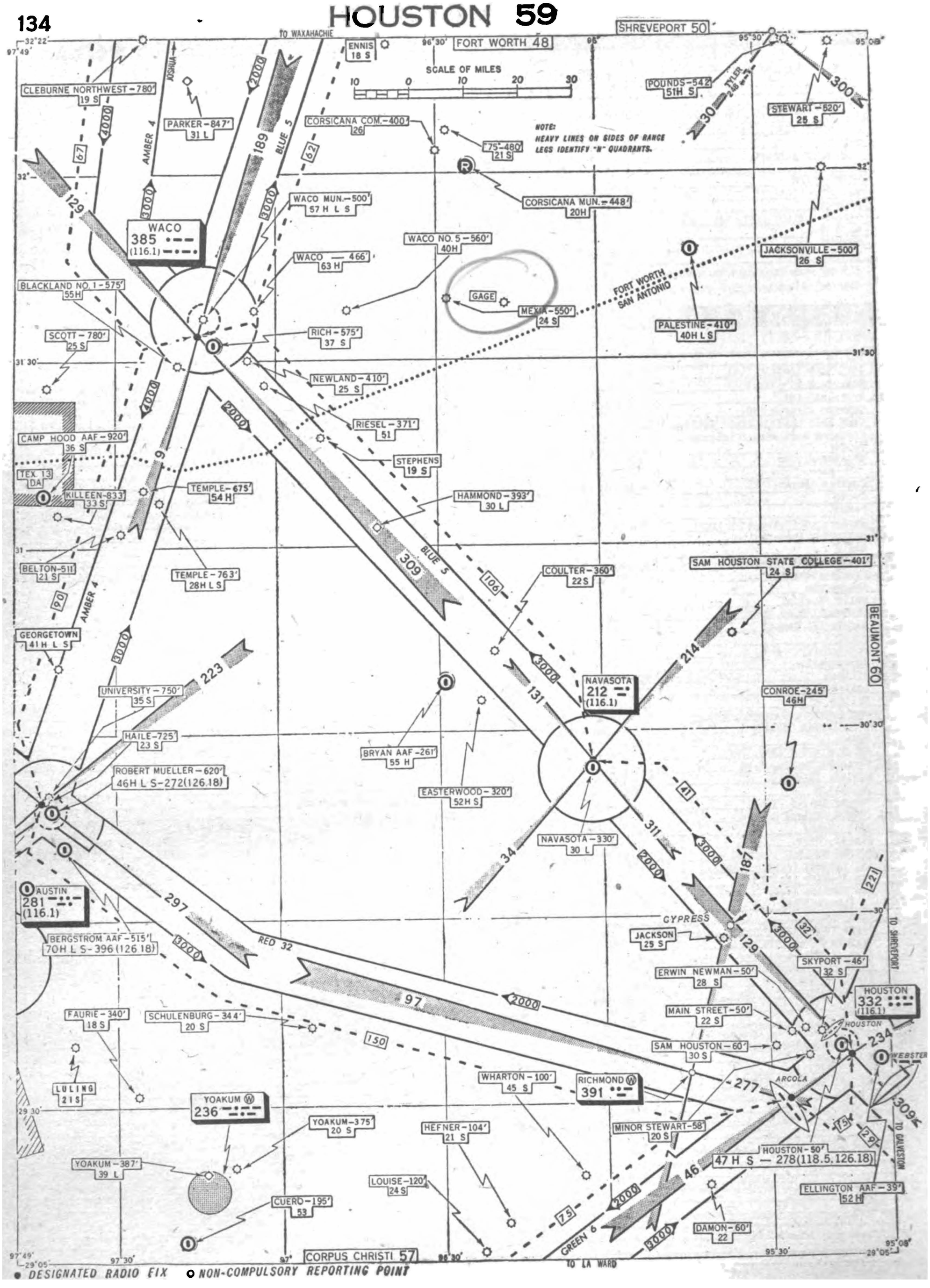
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

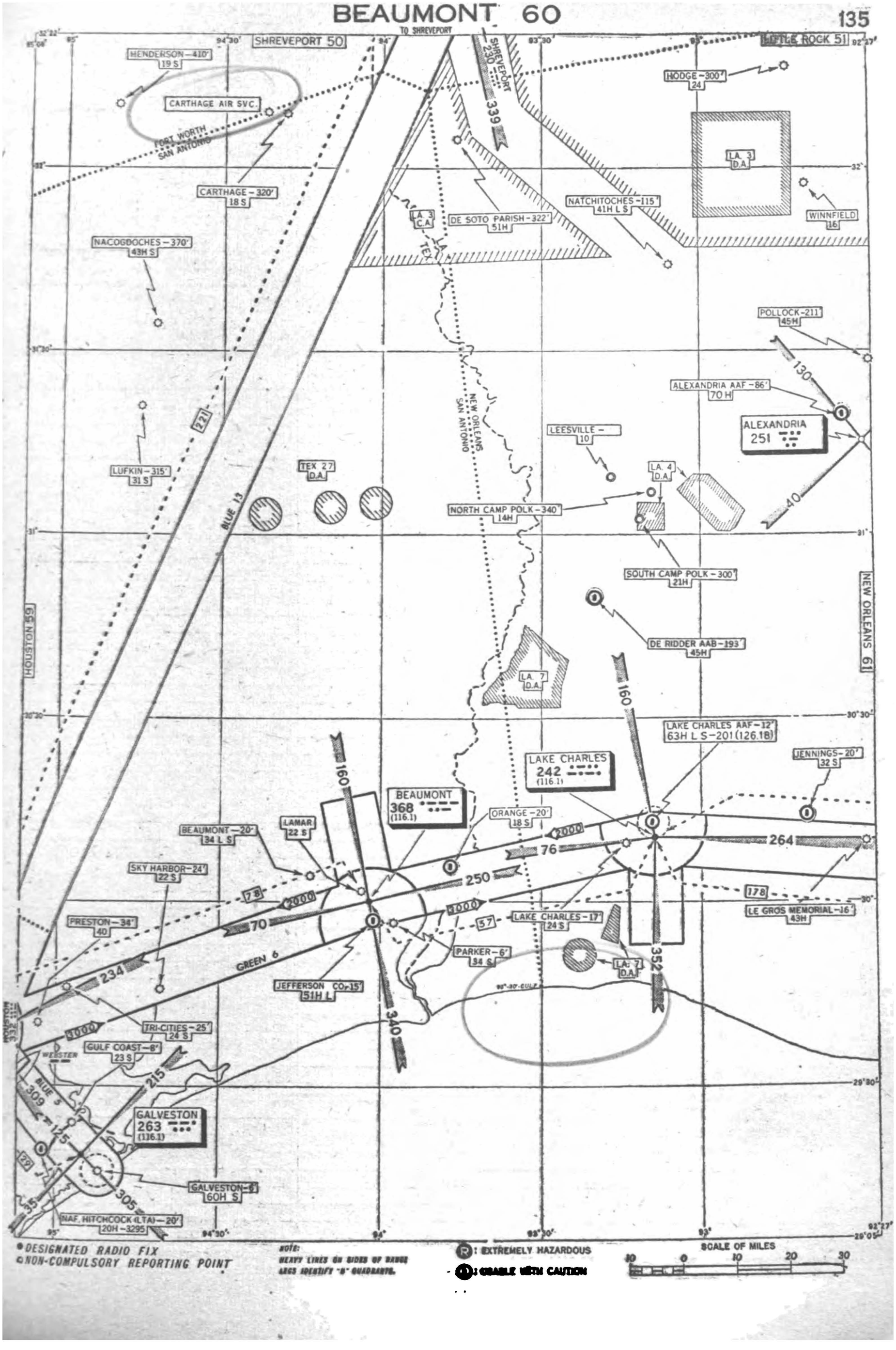
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Belton	1.6 WSW;hwy W	511	21 S1	73,80 oct.No storage.
(A) Bergstrom (Austin) (A)	7 SE	515	70h R1 L5 S6	73,100 oct.No storage.Pole NE,NW.
Blackland #1 (Waco)	11 WSW;RR S	575	55h	
(A) Bryan AAF (A)	7 SSW;rlv SSW	261	55h	INACTIVE.
Cameron Airpark (NC)	1.7 N;RR,hwy W	402	29	Bldg NNE
(A) Camp Hood Landing Field (Killeen)	2 NE	920	36 S1	CLOSED. (A)
Cleburne Northwest (Cleburne)	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(P) Conroe	3.5 NE;hwy W	245	46h	
Corsicana, com. mun.	2.8 SW;bet rds	400	26	
	5.6 SE;RR E	448	20h	UNUSABLE.Acft parked entire fld.
Coulter (Bryan)	4 NE;hwy NW	360	22 S6	80 oct.5' fence SW.
Cuero	3.1 N;RR SE	195	53	
Denson	3 ESE;hwy WSW	60	22	4' fence sur fld.
(P) Easterwood (College Station)	2.8 SW	320	52h S6	80 oct.
(A) Ellington (Houston)(A)	15 SE;RR W	39	52h	INACTIVE.
Ennis	1.5 NW;RR E	540	18 S4	Ltd 73 oct.No storage.
Erwin-Newman (Houston)	5 SSW;hwy N	50	28 S6	80 oct.
Faurie (Gonzales)	2 NNE;hwy E	340	18 S2	80 oct.Trees N,S.
Georgetown	3.3 N;hwy E	789	41h L5 S4	80,91 oct.
Haile (Austin)	4.1 NE;RR E	725	23 S6	80,91 oct.Poles ESE.
★ Hammond Int.16.0S-WC	2.5 SSE;RR W	393	30 L3	
Hafner (El Campo)	1.5 WSW;RR SE	104	21 S2	80 oct.Pole line S,SE.
HOUSTON	9 SSE;hwy W	50	47h R2 L5 S6	73,80,91,100 oct.
Jackson (Cypress)	4 SE;hwy S	145	25 S6	80 oct.
Jacksonville	3 N;RR E	500	26 S6	73,80 oct.Pole line ENE.
Killeen	3.6 SE;RR NNE	833	33 S1	73 oct.Sign board N.
Louise	1.6 E;RR W	120	24 S1	Ltd 80 oct.Pole line N,S.
Luling	1.1 SE;hwy NE	418	21 S1	80 oct.Pole lines sur fld.
Madisonville Emergency (NC)	0.8 NW;hwy E	400	18	
Main Street (Houston)	6.5 SW;hwy SE	50	22 S6	80 oct.
Mexia	1 SE;RR NW	550	24 S2	80 oct.
Minor Stewart (Houston)	10 S;RR W	58	20 S6	80 oct.
★ Navasota Int.10.0S-WC	2.5 ENE;RR WNW	330	30 R1 L3	
Newland (Waco)	4.5 SSE;RR NE	410	25 S6	80,91 oct.
Palestine	4.5 WNW;hwy N	410	40h L5 S6	80,91 oct.
★ Parker Int.48.JI-FW	0.6 N;hwy W	847	31 L3	
(P) POUNDS (Tyler)	5.5 W;hwy N	542	51h R1 L5 S1	80,91 oct.Ctc lgts prior req.
Rich (Waco)	3 WSW;hwy SW	575	37 L4 S6	73,80,91 oct.Poles SSE,SE.Fld lgts prior req.
Riesel (Waco)	10.5 SE	371	51	
ROBERT MUELLER (Austin)	3.5 NE;RR SW	620	46h R2 L5 S6	80,91 oct.
St. Edwards (Austin) (NC)	3.5 S	700	22	
Sam Houston (Houston)	10.5 SW;RR S	60	30 S6	73,80 oct.
Sam Houston State College (Huntsville)	2.5 NW;RR E	401	24 S2	80 oct
Schulenburg	2.2 N;hwy W	344	20 S4	73 oct.Pole line W.
Scott (Gatesville)	1.8 E;hwy N	780	25 S1	80 oct.Pole line NW.
Seventy-Five (Corsicana)	1.8 N;RR W	480	21 S6	73 oct.No storage.Poles NW.
Skyport (Houston)	5 S;hwy N	46	32 S4	80 oct.
Sportsman (Houston)	6 ENE;RR N	60	30 S4	80 oct.
Stephens (Marlin)	2 ESE;RR N,SSW	318	19 S2	80 oct.Cattle on fld.Pole W.
Stewart (Tyler)	2.5 E;hwy N	520	25 S6	80 oct.Poles W.
Taylor	2.2 WNW;RR S	520	24 S4	73 oct.
Temple	5.5 NW;rd SW,NW	675	54h	
Temple 40; JI-FW	2 NNW;hwy SW	763	28h L3 S4	73,80 oct.
University (Austin)	6 NNE;RR W	750	35 S6	80 oct.
Waco	7 NNE;bet RRs	466	63h	
WACO MUNICIPAL	6 NW;lake S	500	57h R1 L5 S4	80,91 oct.
#5 (Prairie Hill)	2 S;hwy N	560	40h	
Wharton	1.8 ENE;RR N	100	45 S2	80 oct.
Yoakum	4 N;hwy W	375	20 S6	80 oct.
★ Int.7.JR-HU	5 NW;hwy S	387	39 L3	
Boge (Teague)	1.7 N		22 S2	80 oct.Data unverified.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not chartered.

HOUSTON 59


TO WAXAHACHIE
FORT WORTH 48
SHREVEPORT 50
SCALE OF MILES
10 0 10 20 30
ENNIS 18 S
CLEBURNE NORTHWEST – 780' 19 S
PARKER – 847' 31 L
CORSICANA COM. – 400' 26
"75" – 480' 21 S
POUNDS – 542' 51H S
STEWART – 620' 25 S
JACKSONVILLE – 500' 26 S
NOTE: HEAVY LINES OR SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
WACO MUN. – 500' 57 H L S
CORSICANA MUN. – 448' 20H
WACO 385 (116.1)
WACO NO. 5 – 560' 40H
WACO – 466' 63 H
BLACKLAND NO. 1 – 575' 55H
GAGE
MEXIA – 550' 24 S
FORT WORTH SAN ANTONIO
PALESTINE – 410' 40H L S
SCOTT – 780' 25 S
RICH – 575' 37 S
NEWLAND – 410' 25 S
CAMP HOOD AAF – 920' 36 S
RIESEL – 371' 51
STEPHENS 19 S
TEX 13 DA
KILLEEN – 833' 33 S
TEMPLE – 675' 54 H
HAMMOND – 393' 30 L
BELTON – 511' 21 S
TEMPLE – 763' 28H L S
COULTER – 360' 22 S
SAM HOUSTON STATE COLLEGE – 401' 24 S
GEORGETOWN 41H L S
UNIVERSITY – 750' 35 S
NAVASOTA 212 (116.1)
CONROE – 245' 46H
HAILE – 725' 23 S
BRYAN AAF – 261' 55 H
ROBERT MUELLER – 620' 46H L S – 272(126.18)
EASTERWOOD – 320' 52H S
NAVASOTA – 330' 30 L
AUSTIN 281 (116.1)
BERGSTROM AAF – 515' 70H L S – 396 (126 18)
JACKSON 25 S
CYPRESS
SKYPORT – 46' 32 S
ERWIN NEWMAN – 50' 28 S
HOUSTON 332 (116.1)
MAIN STREET – 50' 22 S
SAM HOUSTON – 60' 30 S
FAURIE – 340' 18 S
SCHULENBURG – 344' 20 S
WHARTON – 100' 45 S
RICHMOND 391
ARCOLA
LULING 21 S
YOAKUM 236
YOAKUM – 375' 20 S
HEFNER – 104' 21 S
MINOR STEWART – 58' 20 S
HOUSTON – 50' 47 H S – 278(118.5,126.18)
YOAKUM – 387' 39 L
LOUISE – 120' 24 S
CUERO – 195' 53
ELLINGTON AAF – 39' 52 H
DAMON – 60' 22
CORPUS CHRISTI 57
TO LA WARD
TO SHREVEPORT
TO GALVESTON
BEAUMONT 60
WEBSTER
HOUSTON
AMBER 4
BLUE 5
RED 32
GREEN 6
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

BEAUMONT 60



• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.

Ⓡ : EXTREMELY HAZARDOUS
Ⓐ : USABLE WITH CAUTION

RADIO

LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA (AAF)	251 (DAI)	MRAWZ, 310°, 5.7	(4)
LAKE CHARLES	242(LC)(116.1)	SBRAZ-VDT	(4);116.1
Lake Charles AAF	201 (126.18)	CA:340°, 2.3	(4) only

TEXAS

BEAUMONT (Jefferson Co.)	368(JU)(116.1)	BMRLZ-VDT, 160°, 3.8	(4);116.1
GALVESTON	263(GS)(116.1)	SBMRLZ-VDT, 125°, 4.2	(4);116.1
HITCHCOCK NAF-LTA-HTA	3295	CN	3105, 6390 (days)
WEBSTER FM	(- -)	FM, 129°, 9.3	Houston

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

LOUISIANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ALEXANDRIA AAF (A)	5.5 W;riv 2N	86	70h	INACTIVE.
De Quincy (NC)	1.5 SW;RR NW	78	24	Cattle on fld.Trees N,E.
(A) De Ridder AAB (A)	3.5 WSW;RR S	193	45h	INACTIVE.
(P) De Soto Parish(Mansfield)	4.3 NW;hwy S	322	51h	
Hart (Many)(NC)	1.8 SSW;RR E	242	24	Trees NNE.
Hodge	0.5 ENE;hwy NW	300	24	Cattle on Fld.
Jennings	1.4 NNW;RR SW	20	32 S2	80,91 oct.Pole line E.
Lake Charles	5.2 SSW;hwy N	17	24 S6	80 oct.Pole line E.
(A,N) LAKE CHARLES AAF (A)	4 ESE;RR NE	12	63h R2 L5 S6	91,100 oct.JP-1.No storage.
(A) Leesville Landing Strip	2 NW		10	L-type acft. (A)
Le Gros Mem'l (Crowley)	6.5 WSW;RR N	16	43h L5	Ctc lgts prior req.
McArthur (Alexandria)	2.8 W;hwy E,N	86	12 S1	Ltd 80 oct.Trees N,S.
(P) Natchitoches	1.5 SSW;RR E	115	41h L5 S6	80 oct.,ltd 90 oct.Ctc lgts prior req. No bcn.
(A) North Camp Polk Landing Strip (Camp Polk)(A)	6 NE	340	14h	
Oakdale (NC)	3 W;hwy N	123	27	Trees WSW,ENE.
Pollock	4.5 SW	211	45h	
(A) South Camp Polk Landing Strip (Camp Polk)(A)	Adj E	300	21h	
Winnfield	3 NW;hwy E	600	16	Trees N.

TEXAS

Angelina Co. (Lufkin)(NC)	7.5 SSW;RR W	288	42	Cattle on fld.
Beaumont	6.8 W;bet RRs	28	34 L3 S6	73,80 oct.Fld lgts prior req.
Carthage	2 E;hwy N	320	18 S1	Ltd 80 oct.
" Air Service	1.3 W;hwy N,S	310	30 S2	80,91 oct. Pole line N.Trees E,W.
GALVESTON	3.5 WSW;Gulf S	6	60h R1 S6	80,91 oct.
Gulf Coast (Texas City)	2.8 WNW;hwy N	8	23 S6	Ltd 80 oct.No storage.Pole line N.
Henderson	2.1 WNW;hwy S	410	19 S2	73 oct.
(N) Hitchcock NAF(LTA)(N)	2.3 SW;RR ENE	20	20h R1	
Humphrey (Goose Creek)(NC)	4 NNE;RR E	34	24	Pole line NW,W.
(P) Jefferson Co. (Beaumont)	9.8 SSE;hwy NE	15	51h R1 L5	
Lamar (Beaumont)	4 SE;riv NE	17	22 S4	80 oct.No sto.Poleline N,S.
Lufkin	2 NW;hwy N	315	31 L1 S6	73,80 oct.
Nacogdoches	4 WSW;hwy E	370	43h S5	80,91 oct.
Orange	2.6 W;RR S	20	18 S1	73 oct.
Parker (Port Arthur)	4 NW;RR NE	6	34 S6	80 oct.
Preston (Houston)	2.5 WNW LaPorte	34	40	
Richter (Kirbyville)(NC)	1.5 S;RR E	175	16	
Sky Harbor (Anahuac)	0.3 S;hwy N	24	22 S1	80 oct.
Tri-Cities (Goose Creek)	2.6 N;RR E	25	24 S2	80 oct.Pole line SE.
⊕ Pay Bros. (La Porte)(NC)	2 NE	S.L.	Unl S4	No sto.Floats, marine ry.Data unver.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARATARIA FM	(- -)	FM, 171°, 20	New Orleans
BATON ROUGE (Harding)	347 (RX)	MRLWZ, 128°, 3.4	
LAFAYETTE	227 (UO)(116.1)	MHVT	(4): 116.1
LA PLACE FM	(- - -)	FM, 271°, 16.8	New Orleans
MADISONVILLE FM	(- - - -)	FM, 353°, 32	New Orleans
MOISANT AIRPORT (New Orleans)	278 (118.3)(126.18)	C (ILS)	(4): 131.9, 118.3, 126.18
NEW ORLEANS (Moisant)	338 (NO)(116.1)	SBRAZ-VDT, 271°, 3.2	(4):116.1
New Orleans Airport	382 (126.18)	CA	(4) only.
New Orleans NAS	323 (142.74)	CN	(3); 142.74 (8-sunset)
NEW ORLEANS FM	(-)	FM, 63°, 11	New Orleans

MISSISSIPPI

JACKSON AIRPORT	278(126.18)(118.7)	C	(4); 126.18,142.74,131.9, 118.7

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
MOISANT, LA.	109.9	333.8	100° Mag.	IM ·····(.04)	MM	OM --(4.5)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; (Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

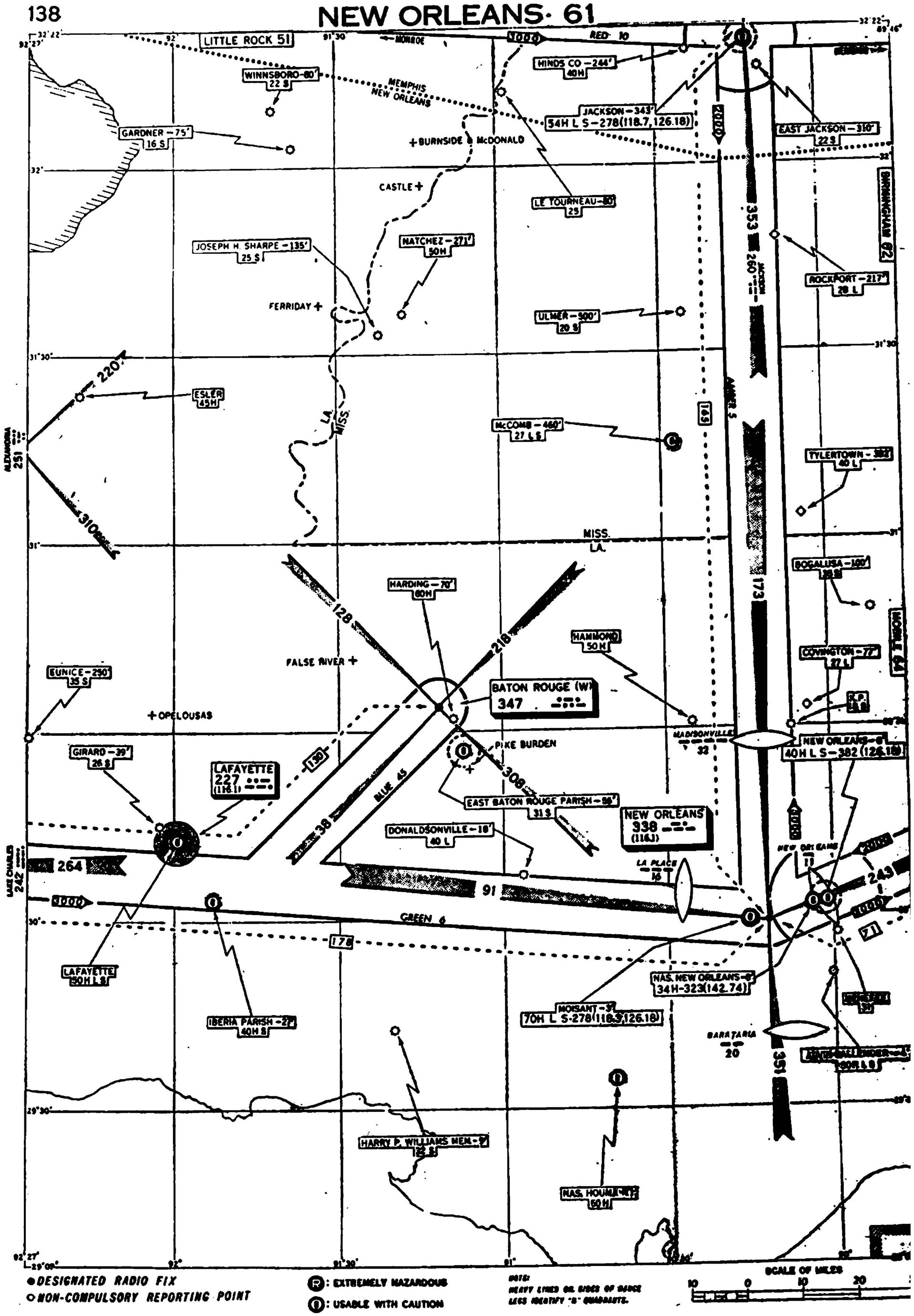
AIRPORTS — LOUISIANA

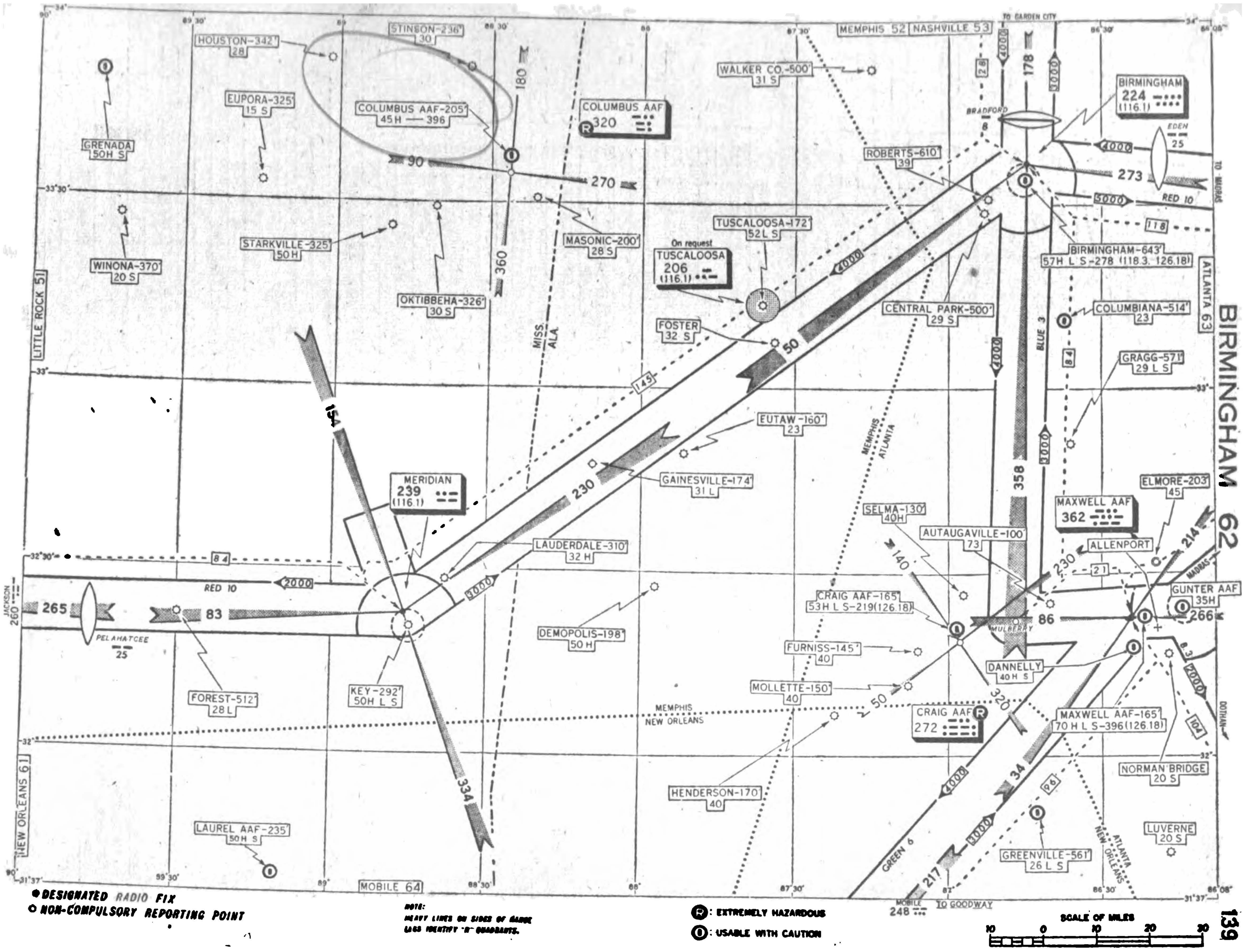
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alvin Callender (New Orleans)	9 SSE; RR E	4	50h L5 S4	73, 80, 91 oct.
Bogalusa	2.4 N; RR E	100	35 S6	73, 80 oct. No sto. Pole S.
Burnside & McDonald (Kewellton)	1 WSW	77	50	Data not verified.
Castle (St. Joseph)	2 N	75	20 S4	80 oct. No sto. Data not verified.
Chapman (New Orleans)(NC)	8.5 NE; lake N	4	22	15' trees NW. Cattle on field.
* Covington Int. 3. NO-LS	6 NNE; hwy W	77	27 L3	Pole line W.
* Donaldsonville Int. 26. NO-NO	3 ENE; hwy W	18	40 L3	Levee W.
East Baton Rouge Parish (Baton Rouge)	4 E; hwy N, E	56	31 S4	80, 91 oct. Pole line S.
Esler (Alexandria)	11 NE; Bayou S	92	45h	
Eunice	1.7 W; hwy N	250	35 S2	80 oct.
False River (New Roads)	1.5 W	30	25 S1	80 oct. Data not verified.
Ferriday	1 N	55	18	Data not verified.
Gardner (Gilbert)	1 E; hwy S	75	16 S1	Ltd 73 oct.
Girard (Lafayette)	2.5 NW; hwy E	39	26 S6	80, 87 oct. Obsts sur fld.
Grand Isle (NC)	2.6 NE; hwy NW	4	22	
Hammond	2 ENE; RR S	40	50h	
HARDING (Baton Rouge)	5.8 NNE	70	60h	E of river bend.
Harry P. Williams Mem'l(Patterson)	2 WNW; bet RR,hwy	9	32 L2 S2	73 oct. No bcn. Lgts prior req. Pole line NW.
(H) Harvey NAS (LTA)(N)	3.1 ESE; RR NE	11	50h	INACTIVE.
Iberia Parish (New Iberia)	5 NW; RR NE	27	40h L1 S6	73-91 oct. Bcn prior req.
K-P (Covington)	1.6 NW; RR S	27	18 S2	80 oct.
Lafayette	1.5 SE; RR W	40	50h R1 L5 S1	91 oct. Pole line S.
Memefee (New Orleans)	5.2 E; riv S	1	31	Pole line S.
(H) MOISANT INTERNATIONAL(New Orleans)	11 W; riv S	3	70h R3 L5 S1	80,91,100 oct. Restricted to Navy, Airlines, Army.
(A) New Orleans	6.5 NNE; RR S	8	40h R1 L4 S4	91, 100 oct; 100 oct Govt contract.
(H) New Orleans NAS (N)	4.6 N; on lake	7	34h R1	Tower NE.
Opelousas	1.5 NE	35	18	Data not verified.
Pike Burden (Baton Rouge)	5 SE	35	50 S1	80 oct. Data not verified.
Texaco (New Iberia)(NC)	2.6 N; hwy W	21	18	Poles W, WSW. Cattle on fld.
Vinesboro	1.2 ESE; RR SW	80	22 S1	80 oct.
Westwego (NC)	1 E	S.L.	53	PRIVATE. May Brothers.

MISSISSIPPI

East Jackson (Jackson)	3.1 SSE; hwy NW	310	22 S6	80 oct. Trees W.
Hinds County (Jackson)	12.8 W	244	40h	
(A,H) JACKSON	3 NW; RR SW	343	54h R2 L5 S6	80, 91, 100 oct. Tank, stack E.
Joseph H. Sharpe (Natchez)	1.8 ESE; RR S	135	25 S2	73 oct.
LeTourneau (Vokena)	2.5 NW; riv W	80	25 L2 S4	No fuel. Lgts prior req. Caution - wet.
McComb	1.3 NW; hwy E	460	27 L3 S6	80,91 oct. No bcn; lgts prior req. Obsts sur fld.
(P) Natchez	7.1 ENE; RR S	271	50h	
* Rockport Int. 12. NO-LS	1.5 E; riv W	217	28 L3	
* Tylertown Int. 7. NO-LS	6 SE; road E	392	40 L3	
Ulmer (Brookhaven)	1.5 NNE; RR W	500	20 S4	73 oct. No sto. Pole line W.

NEW ORLEANS· 61




BIRMINGHAM 62
HOUSTON-342'
28
STINSON-236'
30
EUPORA-325'
15 S
COLUMBUS AAF-205'
45 H — 396
COLUMBUS AAF
320
GRENADA
50H S
WINONA-370'
20 S
STARKVILLE-325'
50 H
OKTIBBEHA-326'
30 S
MASONIC-200'
28 S
WALKER CO.-500'
31 S
MEMPHIS 52 NASHVILLE 53
TO GARDEN CITY
BIRMINGHAM
224
(116.1)
BRADFORD
8
EDEN
25
ROBERTS-610'
39
TUSCALOOSA-172'
52 L S
On request
TUSCALOOSA
206
(116.1)
BIRMINGHAM-643'
57H L S-278 (118.3, 126.18)
CENTRAL PARK-500'
29 S
COLUMBIANA-514'
23
FOSTER
32 S
GRAGG-571'
29 L S
LITTLE ROCK 51
ATLANTA 63
MISS. ALA.
MERIDIAN
239
(116.1)
EUTAW-160'
23
GAINESVILLE-174'
31 L
MEMPHIS
ATLANTA
SELMA-130'
40H
ELMORE-203'
45
MAXWELL AAF
362
AUTAUGAVILLE-100'
73
ALLENPORT
LAUDERDALE-310'
32 H
CRAIG AAF-165'
53H L S-219(126.18)
GUNTER AAF
35H
266
DEMOPOLIS-198'
50 H
FURNISS-145'
40
DANNELLY
40 H S
MOLLETTE-150'
40
CRAIG AAF
272
MAXWELL AAF-165'
70 H L S-396(126.18)
MEMPHIS
NEW ORLEANS
NORMAN BRIDGE
20 S
HENDERSON-170'
40
LAUREL AAF-235'
50 H S
LUVERNE
20 S
GREENVILLE-561'
26 L S
ATLANTA
NEW ORLEANS
MOBILE 64
NEW ORLEANS 61
JACKSON
PELAHATCHEE
25
FOREST-512'
28 L
KEY-292'
50H L S
MOBILE
248
TO GOODWAY
MADRAS
DOTHAN
TO MILDRAS
RED 10
GREEN 6
BLUE 3
265
83
273
86
320
50
334
358
178
180
360
90
270
140
230
214
145
154
118
104
84
21
R6
8.3
28
4000
3000
2000
1000
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF AIRWAYS INDICATE "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30
139

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BIRMINGHAM	224(BH) (116.1)	SBRAZ-VDT	(4); 116.1
Birmingham Airport	278 (126.18) (118.3)	AC, 178°, 3	(4); 116.1,140.1,131.9,126.18,118.3
BRADFORD FM	(-)	FM, 358°, 8	Birmingham
CRAIG (Selma)(Army)	272 (DPP)	MRLZ	(3);126.18(voice 8-16)
Craig Field	219 (126.18)	CA; 320°, 2.5	(3); 126.18 (8-16)
EDEN FM	(- -)	FM; 93°, 25.1	Birmingham
GUNTER FIELD(Montgomery)	201 (126.18)	CA	INACTIVE
MAXWELL (Montgomery)(Army)	362 (DXW)	SBRAZ	(4)
Maxwell Field	396 (126.18)	CA; 86°, 2	(4); 126.18
TUSCALOOSA	206(TU)(116.1)	MHVT	(4); 116.1

MISSISSIPPI

COLUMBUS (Army)	320 (DNN)	MRLZ	(Voice 8-1830)
Columbus AAF	306	CA; 360°, 2.8	(3)(8-1830)
MERIDIAN (Key)	239(UM)(116.1)	SBMRAZ-VDT;154°,2.8	(4); 116.1
PELAHATCHEE FM	(- -)	FM, 85°, 25	Jackson

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice Is Available.

AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allenport (Montgomery)	4 SE	175	30 S5	80,91oct.183' twr NW.Data unver.
Autaugaville (Selma)	20.5 W	100	73	
(A) BIRMINGHAM	5.5 NE;RR S	643	57h R2 L5 S3	73-100oct.JP-1.Rdo rec req.
Central Park(Birmingham)	5.2 SW;RR E	500	29 S6	80 oct. No sto.
Columbiana	1.5 WNW	514	23	Lgt acft only.
(A) Craig (Selma)(A)	4.8 SSE	165	53h R2 L5 S6	91,100 oct.
DANNELLY (Montgomery)	7 SW;RR E	192	40h S1	80,91 oct.
(P) Demopolis	7.8 WSW;riv NW	198	50h	
(A) Elmore (Montgomery)(A)	10 N;hwy N	203	45	INACTIVE.
Eutaw	2 SE;hwy N	160	23	Pole line W.
Foster(Tuscaloosa)	5.5 S	236	32 S4	Ltd 73 oct.Pwr line E.
Furniss (Selma)	10 SSW	145	40	
* Gainesville Int,55,FV-AG	2 S;hwy W	174	31 L2	
Gragg,27,PS-TM(Clanton)	2.2 NE;creek S	571	29 L3 S2	80,91oct. Hill E.
Greenville,24,NO-AG	5.5 WNW;hwy S	561	26 L2 S4	80 oct.
(A) Gunter (Montgomery)(A)	5 NE	221	35h	INACTIVE.
Henderson (Selma)	29 SW; riv W	170	40	
Luverne	1.7 NNW;RR E	300	20 S1	73 oct.Pole line W.
(A) Maxwell(Montgomery)(A)	3 WNW	165	70h R2 L5 S6	73,91,100oct.No sto.JP-1
Mollette (Selma)	16.2 SSW	150	40	
Norman Bridge(Montgomery)	5.8 S;RR E	172	20 S4	73 oct. No sto.
Roberts (Birmingham)	3 W;RR N	610	39	
Selma-Selfield (Selma)	4 ENE;RR S	130	40h	
Tuscaloosa,59,FV-AG	3 NW;RR N	172	52 R1 L3 S6	73,80 oct.Pole,trees N.
Walker County (Jasper)	2.5 NNE;RR W	500	31 S2	80 oct.

MISSISSIPPI

(A) Columbus AAF (A)	10 N;RR E	205	45h R2	INACTIVE.
Eupora	1 NE;hwy S	325	15 S2	80 oct.Hill NW.
Forest,46,FV-AG	1 W;RR S	512	28 L3	
Grenada	3 N;RR S	197	50h L5 S2	80,91 oct.Ctc lgts req.
Houston	1.5 SW;hwy SE	342	28	Trees W,SE,N; bldg SE.
KEY (Meridian)	3.5 SW;RR E	292	50h R1 L5 S4	80,91 oct.
Lauderdale Civil(Meridian)	9 NNE;hwy E	310	32h	
(A) Laurel AAF	3 SW;RR SE	235	50h S2	80,91 oct. civil acft.Army inactive.
Masonic (Columbus)	3.9 ENE;hwy S	200	28 S2	80 oct.
O'Keefe (Newton)(NC)	1.5 ESE;RR N	363	26	Trees NE,SE,NW.UNUSABLE.
Oktibbeha (Starkville)	7.5 ENE;hwy E	326	30 S6	73 oct.
(P) Starkville (Columbus)	2 SW Starkville	325	50h	
Stinson (Aberdeen)	3 NW;hwy NE	239	30	
Winona	1.3 SSE;RR W	370	20 S4	73,91oct. Lgt acft only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANNISTON	206 (K J)(116.1)	MHVT	(4): 116.1
TUSKEGEE (Army)	347 (DNL)	BMRLZ	
Tuskegee AAF	219 (126.18)	CA;270°,3.8	(3): 126.18 (7-19)
GEORGIA			
ALBANY (Turner Aux Fld #1)	254 (GY)	BMRLZ-DT,296°,2.3	(4)
ATLANTA	266 (AG)(116.1)	SBRAZ-VDTX	(4): 116.1
Atlanta Airport	278 (118.7) (126.18)	AC (ILS):331°,1.9	(4):126.18,142.74,118.7, 131.9, 126.18
Atlanta (Navy)	323 (NCQ)	MRLWZ	
Atlanta NAS	356 (142.74)	CN: 86°,3.2	3105,4495,3117.5,142.74
EAST POINT LFM	(- - - -)	LFM, 331°,6.5	Atlanta
JONESBORO	219 (H)	FMK: 133°,11	Atlanta
JONESBORO FM	(- -)	FM, 133°, 11	Atlanta
LAWSON, (Columbus)(Army)	379 (DVL)	MRLZ	
Lawson Field	278 (126.18)	CA: 21°, 3.3	(3): 126.18
MACON (Herbert Smart)	209 (UN)(116.1)	BMLZ-VDT:246°,4.8	(4): 116.1
MADRAS FM	(- - -)	FM, 230°, 22.8	Atlanta
MARIETTA AAF	396 (126.18)	CA	4495,6210,126.18 (8-20)
SMYRNA FM	(- - - - - -)	FM, 331°, 22	Atlanta
STONE MOUNTAIN FM	(-)	FM, 55°, 17.25	Atlanta
WARNER-ROBINS (Robins Fld)	284 (126.18)	CA	(3): 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ATLANTA, GA.	109.9		329° Mag.	IM ·····(.02)	MM	OM ——(3.1)
					MMK 201 ····(.68)	OMK

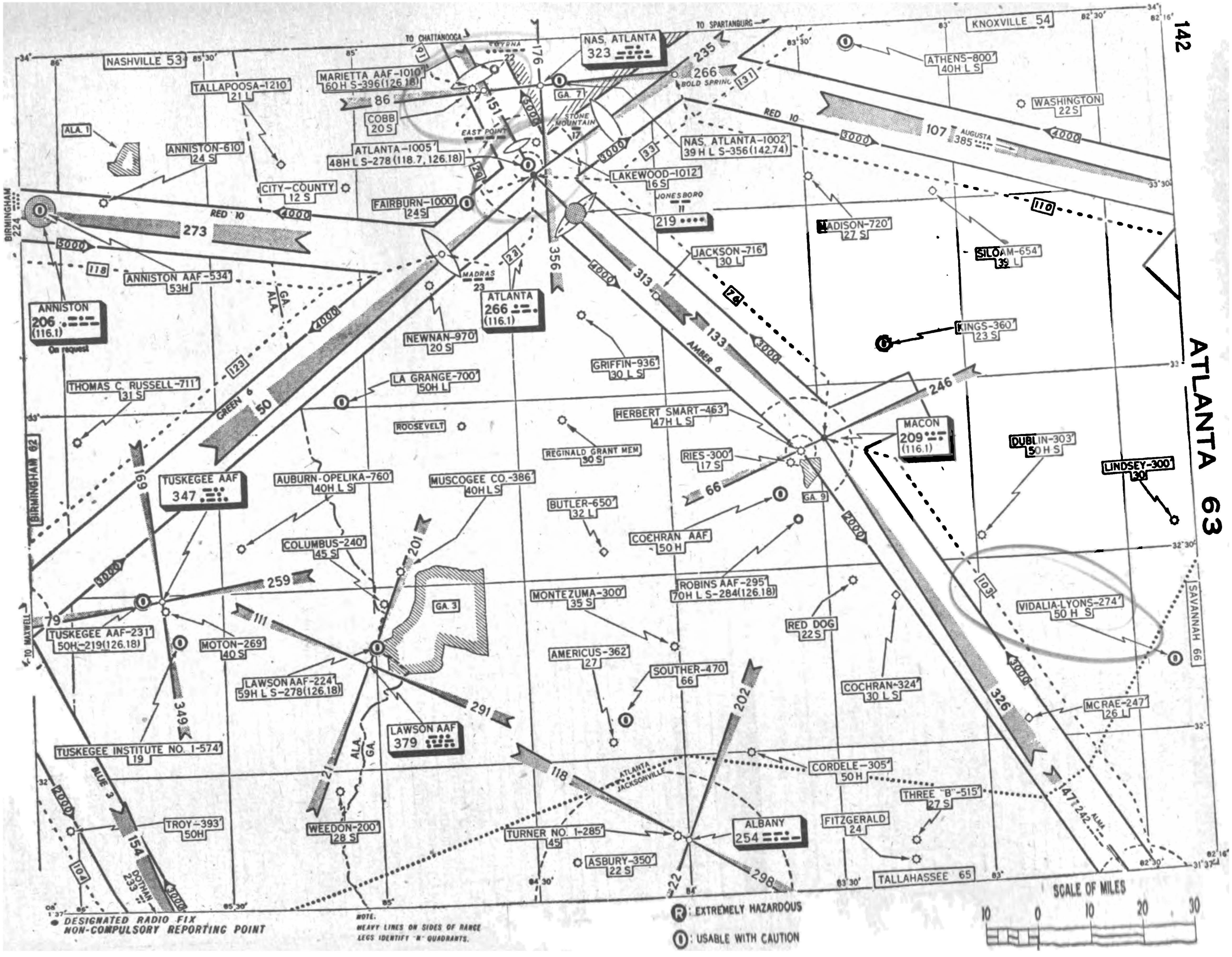
S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

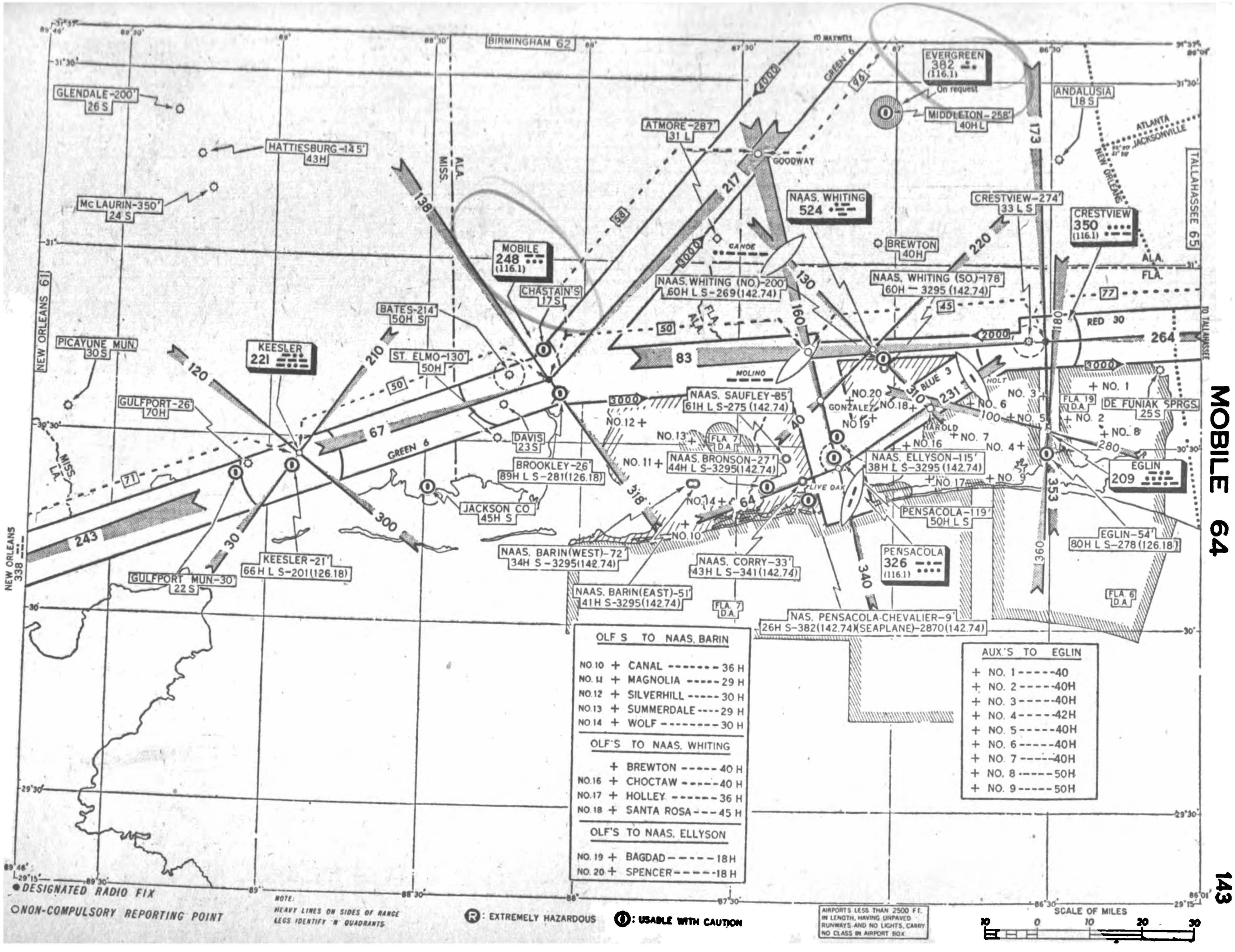
AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anniston	5.5 SSW	610	24 S3	80 oct. Pole line W, lgtd.
(A) Anniston AAF (A)	15 SW; hwy N	534	53h R1	INACTIVE.
(P) Auburn-Opelika (Auburn)	2.8 E; RR N	709	40h L5 S5	80 oct. Fld lgts prior req.
Moton (Tuskegee)	3 N; RR,riv E	269	40 S6	73-91 oct. No sto. Twr S end.
Talladega	2.6 NE; RR SE	590	20	Pole line E, hill W.
Thomas C. Russell(Alexander Cy)	1.5 SW; hwy E	711	31 S5	80 oct.
(P) Troy	4.8 NNW; rd E	393	50h	
(A) Tuskegee AAF (A)	7.3 NW; RR S	231	50h R2	INACTIVE.
Tuskegee Institute #1	4 SSE; hwy W	574	19	
Weedon (Eufaula)	4.3 NNE; hwy E	200	28 S2	80 oct.
GEORGIA				
Americus	1.5 S; RR W	362	27	Trees E, W, NE.
Ashbury (Dawson)	5.7 SE; RR N	350	22 S1	Ltd 80 oct. Pole NNW.
Athens	3.5 E; RR N	800	40h L4 S6	80, 91 oct.
(A) ATLANTA	8 S; RR N	1005	48h R3 L6 S6	73-100 oct.Rdo rec req.Trees NW. ARMY INACTIVE.
(N) Atlanta NAS (N)	8.5 NNE; hwy SE	1002	39h R2 L6 S6	100 oct. NAFC.
* Butler Int,14, T J-AG	0.5 NW; RR S	650	32 L3	Poles S.
City-County (Carrollton)	3.3 NE; hwy E	1200	12 S1	Ltd 73 oct.
Cobb (Marietta)	6.4 SSW; rd S	1050	20 S6	Ltd 80 oct.No sto.Trees NW.
(A) Cochran (Macon) (A)	10 S; RR E	352	50h	INACTIVE.
* Cochran Int,50,MM-AG	5 NE; rd N	324	30 L2 S6	80 oct. Poles NW, NE, S, SE.
Columbus	1.5 SSE; riv SW	240	45 S4	80 oct.
(P) Cordele	1.6 NNE; RR W	305	50h	
(N,P) Dublin	4.5 WNW; hwy S	303	50h S1	73 oct.
Fairburn	3.5 SW; RR S		24 S2	80 oct.Hi-line SE. Data not verified.
Fitzgerald	2 SSW; RR W,E	365	24	
Griffin	1.5 S;hwy E	936	30 L3 S6	80 oct. Twr E.
HERBERT SMART (Macon)	4 ESE;hwy W	463	47h R1 L5 S6	80,91 oct..
* Jackson Int, 57, MM-AG	4.6 SW; rd S	716	30 L3	Barn E; bldg W.
Kings (Milledgeville)	1.5 NW; RR W	360	23 S4	80 oct. No sto.
(P) La Grange	3 SW; RR ESE	700	50h L2	
Lakewood (Atlanta)	4 S; hwy W	1012	16 S4	80 oct. Pwr line SE end NW-SE strip.
(A) Lawson (Columbus) (A)	9.5 S; riv W	224	59h R2 L5 S6	91,100 oct. No sto.
Lindsey (Swainsboro)	2.3 S; RR W	300	30	Pole line E.
* McRae Int,47,MM-AG	2 SE; RR NE	247	26 L3	
Madison	2 SSW; RR E	720	27 S2	80 oct. Pwr line SSE.
(A) Marietta AAF (A)	2.5 SE	1010	60h R1 S4	73-100 oct. JP-1.
Montezuma	1.5 E; RR S,W	300	35 S1	Ltd 80 oct.
Morton (Palmetto)	1.8 NNE; RR SW	1020	24 S6	80 oct.
MUSCOGEE CO.(Columbus)	6 NE; Hwy E	386	40h L5 S6	80,91 oct. Fld lgts prior request.
Newnan Airpark	3.7 SE; RR W	970	20 L1 S1	80 oct.
Red Dog (Cochran)	6.2 NW; RR W	300	22 S4	80 oct. Trees N, E.
Reginald Grant Mem'l(Thomaston)	3.7 NNW;hwy NE	750	30 S4	80 oct. Trees S.
Ries (Macon)	4.5 SE; RR W	300	17 S1	Ltd 80 oct - emerg. Trees N, E.
(A) Robins (Warner-Robins)(A)	1.5 NE Wellston	275	70h R1 L5 S6	62,73,91,100 oct. JP-1.
Roosevelt (Warm Springs)	3.5 N; hwy W	870	22 S2	80 oct. Trees SE, SW, NW.
* Siloam Int,7B, AG-CS	1.3 S; road W	654	39 L3	82' mast SE corner N/S strip.
Souther (Americus)	4 NE; RR W	470	66	
* Tallapoosa Int,73,FV-AG	5.5 SSE	1210	21 L3	Trees SE; house NW.
Three "B" (Fitzgerald)	1.5 N	515	27 S1	80 oct.
Turner #1 (Albany)	15 NE	285	45	
(A) Vidalia-Lyons	3.2 SE; hwy N	274	50h S1	80 oct.'ARMY INACTIVE.
Washington	1.4 NW; RR SE	600	22 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

ATLANTA 63


NASHVILLE 53
TO CHATTANOOGA
TO SPARTANBURG
KNOXVILLE 54
NAS, ATLANTA 323
MARIETTA AAF-1010' 60 H S-396(126.18)
TALLAPOOSA-1210' 21 L
ATHENS-800' 40H L S
WASHINGTON 22 S
COBB 20 S
GA. 7
STONE MOUNTAIN
EAST POINT
ATLANTA-1005' 48H L S-278(118.7, 126.18)
NAS, ATLANTA-1002' 39 H L S-356(142.74)
ALA. 1
ANNISTON-610' 24 S
CITY-COUNTY 12 S
FAIRBURN-1000' 24 S
LAKEWOOD-1012' 16 S
JONESBORO 11
219
BIRMINGHAM 224
RED 10
273
ANNISTON AAF-534' 53H
MADISON-720' 27 S
JACKSON-716' 30 L
SILOAM-654' 39 L
ANNISTON 206 (116.1)
On request
GA. ALA.
MADRAS
ATLANTA 266 (116.1)
NEWNAN-970' 20 S
KINGS-360' 23 S
GRIFFIN-936' 30 L S
LA GRANGE-700' 50H L
THOMAS C. RUSSELL-711' 31 S
GREEN 6
AMBER 6
HERBERT SMART-463' 47H L S
ROOSEVELT
MACON 209 (116.1)
DUBLIN-303' 50 H S
LINDSEY-300' 30
REGINALD GRANT MEM 30 S
RIES-300' 17 S
BIRMINGHAM 62
TUSKEGEE AAF 347
AUBURN-OPELIKA-760' 40H L S
MUSCOGEE CO.-386' 40H L S
BUTLER-650' 32 L
GA. 9
COCHRAN AAF 50 H
COLUMBUS-240' 45 S
MONTEZUMA-300' 35 S
ROBINS AAF-295' 70H L S-284(126.18)
VIDALIA-LYONS-274' 50 H S
SAVANNAH 66
TUSKEGEE AAF-231' 50H-219(126.18)
MOTON-269' 40 S
GA. 3
RED DOG 22 S
AMERICUS-362' 27
SOUTHER-470' 66
LAWSON AAF-224' 59H L S-278(126.18)
COCHRAN-324' 30 L S
MCRAE-247' 26 L
TO MAXWELL
LAWSON AAF 379
TUSKEGEE INSTITUTE NO. 1-574' 19
ALA. GA.
ATLANTA JACKSONVILLE
CORDELE-305' 50 H
THREE "B"-515' 27 S
ALMA
TROY-393' 50H
WEEDON-200' 28 S
TURNER NO. 1-285' 45
ALBANY 254
FITZGERALD 24
ASBURY-350' 22 S
DOTHAN 233
TALLAHASSEE 65
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE.
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION


BIRMINGHAM 62
TO MAXWELL
GLENDALE-200'
26 S
HATTIESBURG-145'
43H
McLAURIN-350'
24 S
PICAYUNE MUN.
30 S
GULFPORT-26'
70H
GULFPORT MUN-30'
22 S
KEESLER
221
KEESLER-21'
66 H L S-201(126.18)
MOBILE
248
(116.1)
CHASTAIN'S
17 S
BATES-214'
50H S
ST. ELMO-130'
50H
DAVIS
23 S
BROOKLEY-26'
89H L S-281(126.18)
JACKSON CO
45H S
ATMORE-287'
31 L
GOODWAY
NAAS. WHITING
524
NAAS. WHITING (NO.)-200'
60H L S-269(142.74)
NAAS. WHITING (SO.)-178'
60H — 3295 (142.74)
NAAS. SAUFLEY-85'
61H L S-275 (142.74)
NAAS. BRONSON-27'
44H L S-3295(142.74)
NAAS. BARIN(WEST)-72'
34H S-3295(142.74)
NAAS. BARIN(EAST)-51'
41H S-3295(142.74)
NAAS. CORRY-33'
43H L S-341(142.74)
NAAS. ELLYSON-115'
38H L S-3295 (142.74)
NAAS. PENSACOLA-CHEVALIER-9'
26H S-382(142.74)(SEAPLANE)-2870(142.74)
EVERGREEN
382
(116.1)
On request
MIDDLETON-258'
40H L
BREWTON
40H
CRESTVIEW-274'
33 L S
CRESTVIEW
350
(116.1)
ANDALUSIA
18 S
PENSACOLA
326
(116.1)
PENSACOLA-119'
50H L S
EGLIN
209
EGLIN-54'
80H L S-278(126.18)
DE FUNIAK SPRGS.
25 S
FLA. 19 D.A.
FLA. 6 D.A.
FLA. 7 D.A.
ATLANTA
JACKSONVILLE
NEW ORLEANS
TALLAHASSEE 65
TO TALLAHASSEE
NEW ORLEANS 61
NEW ORLEANS 338
ALA.
MISS.
FLA.
MISS. LA.
GREEN 6
RED 30
BLUE 3
MOLINO
CANOE
LIVE OAK
HOLT
GONZALE
HAROLD
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5
NO. 6
NO. 7
NO. 8
NO. 9
NO.10 + CANAL ------ 36 H
NO.11 + MAGNOLIA ----- 29 H
NO.12 + SILVERHILL ----- 30 H
NO.13 + SUMMERDALE ---- 29 H
NO.14 + WOLF -------- 30 H
OLF'S TO NAAS. WHITING
+ BREWTON ----- 40 H
NO.16 + CHOCTAW ----- 40 H
NO.17 + HOLLEY ------ 36 H
NO.18 + SANTA ROSA --- 45 H
OLF'S TO NAAS. ELLYSON
NO. 19 + BAGDAD ----- 18H
NO. 20 + SPENCER ----- 18 H
AUX.'S TO EGLIN
+ NO. 1 ----- 40
+ NO. 2 ----- 40H
+ NO. 3 ----- 40H
+ NO. 4 ----- 42H
+ NO. 5 ----- 40H
+ NO. 6 ----- 40H
+ NO. 7 ----- 40H
+ NO. 8 ----- 50H
+ NO. 9 ----- 50H
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
SCALE OF MILES
10 0 10 20 30

RADIO

ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARIN FIELD NAAS (Foley) East Field	3295 (142.74)	CN	3105;142.74
BARIN FIELD NAAS (Foley) West Field	3295 (142.74)	CN	3105;142.74
BROOKLEY FIELD (Mobile)	281 (126.18)	CA	(4); 126.18
CANOE FM	(. . - - - -)	FM, 310°, 24.9	Whiting NAAS
EVERGREEN	382 (EN) (116.1)	MHVT	(4);116.1
MOBILE (Brookley)	248 (MS) (116.1)	SBRAZ-VDT;138°, 3	(4);116.1

FLORIDA

BRONSON FLD NAAS (Pensacola)	3295 (142.74)	CN	3105;142.74 (7-22)
CORRY FLD NAAS (Pensacola)	341 (142.74)	CN	3105;142.74
CRESTVIEW	350 (EW) (116.1)	SBRAZ-VDT;264°, 2.6	(4);116.1
EGLIN (Valparaiso) (Army)	209 (DVQ)	MRLPZ	(Voice 6-24) (3);126.18.
Eglin Field	278 (126.18)	CA;1800, 4	(3);4220, 126.18 (6-24)
ELLYSON FLD NAAS (Pensacola)	3295 (142.74)	CN	3105;142.74 (8-16)
BOLT FM	(-)	FM, 51°, 31.2	Pensacola
LIVE OAK FM	(- -)	FM, 160°, 6	Pensacola
MOLINO FM	(- - - -)	FM, 340°, 21.4	Pensacola
PENSACOLA	326 (KH) (116.1)	SBRAZ-VDT;340°, 2.1	(4); 116.1
Pensacola-Chevalier NAS	382 (142.74)	CN	(4);142.74 (sunrise-30 mins after sunset.
Pensacola-Chevalier NAS (Seaplane)	2870 (142.74)	CN	3105,4495;142.74 (730-1630 except Sat, Sun. & holidays).
SAUFLEY FLD NAAS (Pensacola)	275 (142.74)	CN	3105,4495;142.74
WHITING (Milton) (Navy)	524 (AWT)	MRLZ	
Whiting Fld NAAS (North)	269 (142.74)	CN;130°, 3.2	3105,4495;142.74
Whiting Fld NAAS (South)	3295 (142.74)	CN	3105;142.74 (7-22)

MISSISSIPPI

KEESLER (Biloxi) (Army)	221 (DOX)	BMRLZ	(4); 4220
Keesler Field	201 (126.18)	CA; 210°, 2.9	(4); 4220

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs. (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Andalusia	1.7 SSE;RR N	340	18 S1	80 oct.
★ Atmore Int,16,NO-AG	6 NW;at rd int	287	31 L3	
(N) Barin NAAS-East (Foley)	2.7 ESE	51	41h R1 L1 S4	91 oct.
(N) " -West (Foley)	2.7 ESE	72	34h R1 L1 S4	91 oct.
BATES (MOBILE)	10 W;rd N,S	214	50h S6	80,91 oct.
Brewton (old) (NC)	2.5 N;hwy E	100	23	UNUSABLE.
(P) " (new)	3.5 S;riv N	92	40h	
(A) Brookley (Mobile) (A)	3 SSW;RR NW	26	89h R2 L5 S4	62,73,91,100oct.JP-1
(N) Canal OLF (Foley) (N)	8 S;rd W	16	36h	
Chastain's (Prichard)	2.5 NW;RR E	50	17 S1	80 oct.
Davis (Mobile)	12.1 WSW;RR E	180	23 S1	73 oct.
(N) Faircloth (Lillian) (N)	3 NW; bay E	70	37	
(N) Kaisers Tract OLF (Elberta) (N) (NC)	3.3 ENE;hwy S	90	25	
(N) Magnolia OLF (Foley) (N)	5.4 NW	83	29h	
(P) Middleton (Evergreen)	6 WSW; hwy N	258	40h R1 L5	Fld lgts prior req.
St. Elmo	1 WSW; RR S	130	50h	
(N) Silverhill OLF (N)	3.5 WNW	129	30h	
(N) Summerdale OLF (N)	3.5 ENE;RR W	129	29h	
(N) Wolf OLF (Josephine) (N)	1.5 N; bay E	54	30h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N) Bagdad OLF (Pensacola)	14 NE;RR SE	111	18h	Use rnwys. (N)
(N) Bronson NAAS (Pensacola)	12 WSW;bay W	27	44h R1 L S4	91 oct. B-2 flood, obst lgts. (N)
(N) Choctaw OLF (Pensacola)	15 ENE	111	40h	(N)
Crestview,21,NO-JX	2.5 N;RR E	274	33 R1 L2 S6	80 oct. No sto.
De Funiak Springs	1 W;RR N	197	25 S1	80 oct. Pwr line N.
(A) Eglin (Valpariso) (A)	1.8 SW;hwy SE	54	80h R2 L5 S4	73-100 oct. JP-1. No sto.
(A) " #1 " (A)	13.7 NNE	238	40h	
(A) " #2 " (A)	6.1 NNE	157	40h	
(A) " #3 " (A)	10 N	192	40h	
(A) " #4 " (A)	6.2 W	92	42h	
(A) " #5 " (A)	10 NW	178	40h	
(A) " #6 " (A)	18.2 WNW;riv NW	136	40h	
(A) " #7 " (A)	19.5 W	133	40h	
(A) " #8 " (A)	10.3 ENE	113	50h	
(A) " #9 " (A)	13.7 WSW	35	50h	
(N) Ellyson NAAS (Pensacola)	7.5 NNE;bay E	115	38h R1 L S6	73,91 oct.E and W flds.CLSD.(N)
Gulf Airpark (Pensacola)	3 NW		17	Data not verified. (NC)
(N) Helm OLF (Pensacola) (N)	12 NW	100	54	(NC)
(N) Holley OLF (N)	1.5 S;riv N	37	36h	
Milton (NC)	3.5 ENE;RR S	150	53	
(P) PENSACOLA	4 NNE;bay E	121	50h R1 L5 S6	80,91 oct.
(N) " NAS (Chevalier) (N)	5.3 SW;RR W	9	26h R1 L S6	91 oct.Flood,obst lgts.
(N) " NAS (Corry) (N)	5 WSW;hwy SE	33	43h R1 L4 S6	91 oct.Obsts N,E,W.
(N) " OLF #1 (N) (NC)	14 NW;riv 3 W	100	46	
(N) " OLF #5 (N) (NC)	10 NNW;RR W	115	57	
(N) " OLF #6 (N) (NC)	10 NNW;RR E	110	48	
(N) " OLF #7 (N) (NC)	7 NW	103	37	
(N) " OLF #8A (N) (NC)	13 NW	100	73	
(N) " OLF #9K (N) (NC)	11.5 NNW;RR E	110	50	
(N) Santa Rosa OLF (Milton)	6 E;rivs N,S,W	150	45h	(N)
(N) Saufley NAAS (Pensacola)	8.5 WNW;bay SW	85	61h R1 L5 S4	87,91 oct. (N)
(N) Spencer OLF (Pensacola)	15 NNE;bay S	145	18h	(N)
(N) Whiting NAAS-North (Milton) (N)	6 N	200	60h R2 L6 S4	73,91,100 oct.
(N) " " -South (Milton) (N)	5 N	178	60h R1	Use N fld. INACTIVE.
(N) Bronson NAAS (Pensacola)	12 WSW	S.L.	Unl L4 S4	87,91 oct. Ramps;all facs. (N) (NC)
(N) Pensacola NAS (N) (NC)	5.3 SW	S.L.	116 L1 S6	87-100 oct.Ramps;all facs.

MISSISSIPPI

Ellisville	1.3 SW;RR SE	240	18	
Glendale (Hattiesburg)	5 NNW;hwy E	200	26 S3	80 oct.
Gulfort	3.4 NE	26	70h	
" mun.	1.3 N;RR E	30	22 L1 S1	80 oct.Twrs SE,NNE,lgtd.
Hattiesburg	5 SSE;RR SW,NE	145	43h	Poles W,NW
Jackson Co. (Pascagoula)	3.5 ENE;RR N	16	45h L5 S6	80,91 oct.
(A) Keesler (Biloxi) (A)	2 WNW;bay N	21	66h R2 L5 S5	73,91,100 oct.Rdo rqd ngts.
McLaurin	1 NNE;RR W	350	24 S4	73 oct.Lgt acft only.
Picayne	2.3 NNE	92	30 S4	73 oct.No sto.Trees N,SW.
(N) Biloxi CGAS (N) (NC)	2 ESE	S.L.	54 S4	91 oct. Ramp.

RADIO

ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DOTHAN	233 (NI)	SBRAZ-DT,47°,3.7	(4)
FLORIDA			
CROSS CITY	269 (FC)(116.1)	SBMRAZ-VDT,315°,2.7	(4), 116.1
DALE MABRY FLD (Tallahassee)	281 (126.18)(118.3)	C, 85°, 2.7	(4), 126.18, 118.3
TALLAHASSEE (Dale Mabry Fld)	335 (T)(116.1)	SBRAZ-VDT,85°,2.7	(4), 116.1
TYNDALL (Panama City)(Army)	203 (DKE)	BMRLZ	Voice 8-23. (3); 126.18
Tyndall Field	272 (126.18)	CA, 313°, 3	(3), 126.18 (6-24)
GEORGIA			
ALMA (Int.)	242 (AJ)(116.1)	SBRAZ-VDT,144°, 2.2	(4), 116.1
TIFTON ARPT NO. 4	(137.98)	CA	3105, 4495; 137.98
TURNER (Albany)(Army)	219	MH	
Turner Field	396 (126.18)	CA, 202°, 0.5	(3), 126.18 (8-18)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

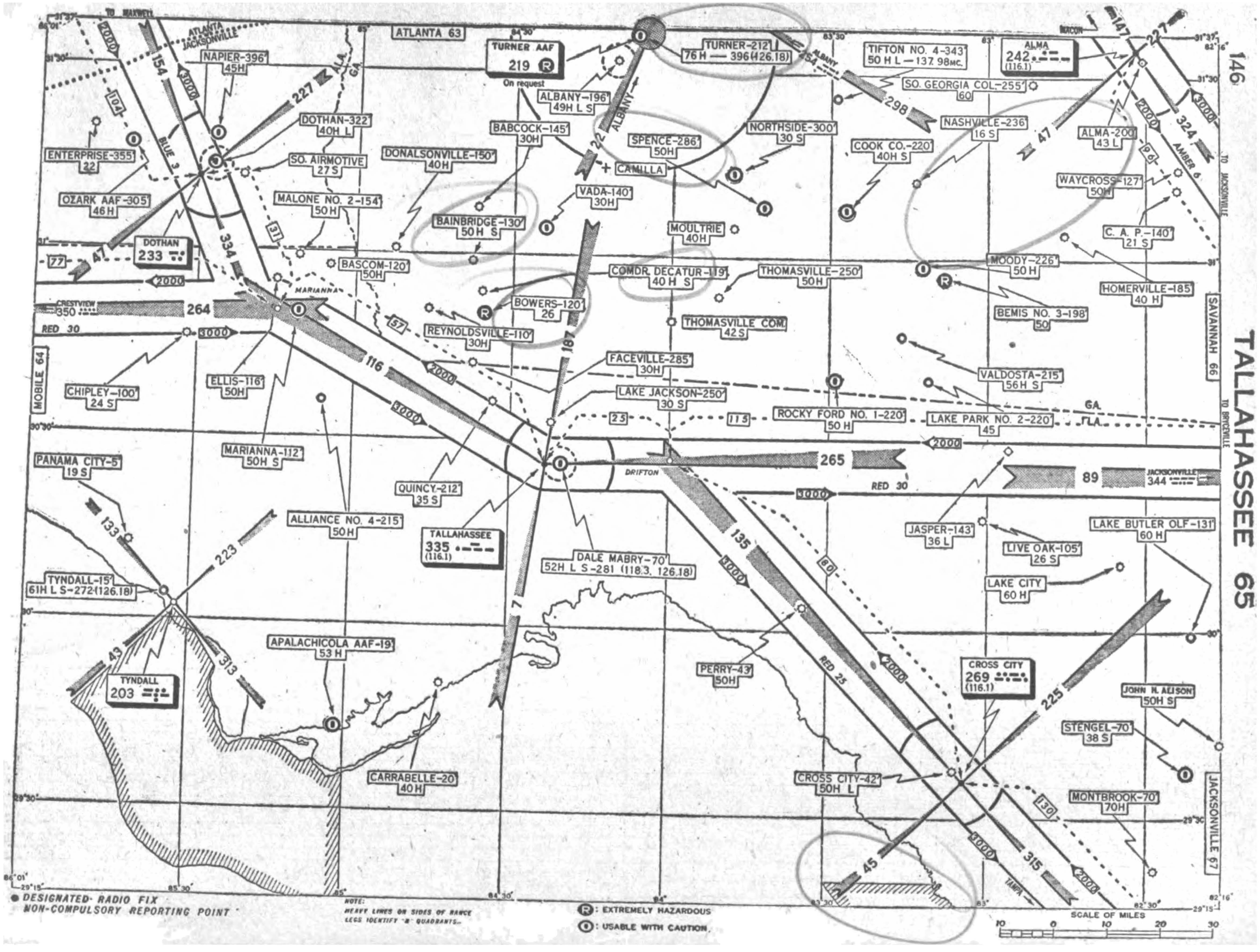
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DOTHAN	2.5 WNW	322	40h R1 L5	
Enterprise	0.5 NE	355	22	
Headland	2 NE,hwy N	350	48	
Napier (Dothan)	7.5 NW,RR S	396	45h	
(A) Ozark AAF (A)	12 SSW	305	46h	INACTIVE
Southern Airmotive	2 SE,RR W	322	27 S4	80 oct. Twr NW. (Dothan)
FLORIDA				
(A) Alliance #4 (Mariana)(A)	14 SE	215	50h	INACTIVE
(A) Apalachicola AAF (A)	2 W,RR N	19	53h	INACTIVE
Bascom (Mariana)	15.5 NE	120	50h	
Carrabelle Flgt Strip	2.6 W,hwy S	20	40h	
Chipley	1.5 SE,hwy N	100	24 S1	80 oct.Trees around fld.
Cross City	1 SE,RR SW	42	50h R1 L5	No beacon
DALE MABRY (Tallahassee)	3 W, RR S	70	52h R2 L5 S4	80, 91 oct.
Ellis (Mariana)	9.5 N,riv W	116	50h	
Fountain	5.2 NNE,hwy E	202	25	
★ Jasper Int,43,NO-JX	3.5 SSE,RR NE	143	36 L3	Poles W.Power line NE.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct. Lgts prior req.
(N) Lake Butler OLF (N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lake Jackson(Tallahassee)	9 NNW,riv NW	250	30 S4	80 oct. No sto.
Live Oak	1 W,RR W	105	26 S1	80 oct. Pole line N,NE,SW. Hwy N.
Malone #2 (Mariana)	15.5 N	154	50h	
Mariana	6 NE,hwy E	112	50h L5 S4	80 oct.Fld lgts prior req.
Montbrook (Williston)	3.2 SSW,hwy E	70	70h	
Monticello (NC)	1.5 SW,hwy E	160	25	
Panama City	5 NW,bay N,S,W	5	19 S6	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Perry	3 S,RR E	43	50h	
Perry Municipal	0.5 NE	43	20	Trees NE,SW.
Quincy	1.5 NE,RR S	212	35 S1	80 oct.
Stengel(Gainesville)	4 WSW,RR SE	70	38 S6	80 oct. Trees around fld.
Tennile	2.5 SSW Clara	35	20	Trees SW Road E.
(A) Tyndall (Panama City)	8 SE	15	61h R2 L5 S6	73,91,100 oct. Gulf of Mexico SW. (A)
GEORGIA				
(P) ALBANY	4 SW, RR N	196	49h R1 L5 S6	80, 91 oct.
★ Alma Int,43,MM-AG	2.5 W,hwy N	200	43 R1 L3	
Babcock(Bainbridge)	3.5 ENE Boykin	145	30h	
Bainbridge	7 NNW,RR NE	130	50h S6	80, 91 oct.
(A) Bemiss #3 (Valdosta)(A)	12 NE,hwy SE	198	50	Not used as airport. Closed.
Bowers (Bainbridge)	4.5 S,rd W	120	26	Trees sur fld. Closed.
Camilla	0.7 NW		22 S1	80 oct. Data not verified.
Civil Air Patrol (Waycross)	2.6 WSW,RR SE	140	21 S1	80 oct. Obsts surround fld.
Commodore Decatur	2 W,riv S	119	40h S1	80 oct. (Bainbridge)
Cook County (Adel)	1.3 W,hwy NE	220	40h L3 S6	80, 91 oct.
Donalsonville(Bainbridge)	1 S Donalsonv'l	150	40h	
Faceville(Bainbridge)	3.5 S Faceville	285	30h	
Homerville Flgt Strip	2.5 NW,hwy NE	185	40h	
(A) Lake Park #2(Valdosta)	12.5 SSE,hwy N	220	45	INACTIVE (A)
(A) Moody (Valdosta)(A)	11.5 NNE,RR W	226	50h	INACTIVE
Moultrie	7 S,hwy NW	287	40h	
Nashville	1.3 ENE,RR S	236	16 S6	80 oct.
Northside (Moultrie)	3.2 NNW,RR W	300	30 S4	80 oct. No sto.
Reynoldsville (Bainbridge)	1.7 SSW Reynoldsville	110	30h	
(A) Rocky Ford #1 (A)	16 SW,hwy N	220	50h	INACTIVE (Valdosta)
South Georgia College	1.3 S,RR W	225	60	(Douglas)
Spence (Moultrie)	5 SE,hwy W	286	50h	
Thomasville	8.5 ENE,hwy S	250	50h	
Thomasville, com.	1 SW,RR N	250	42 S4	80 oct.Trees sur fld.
(A) Tifton No. 4 (A)	2.3 SE,hwy W	343	50h R1 L5	Fld lgts prior req.
(A) Turner (Albany)	3.8 ENE,riv N	212	76h R2	INACTIVE.
Vada (Bainbridge)	3 NE of Vada	140	30h	
(A) Valdosta	2.5 S,hwy E	215	56h S1	80 oct. for civil aircraft.
(P) Waycross	4 NW,hwy E	127	50h	

TALLAHASSEE 65



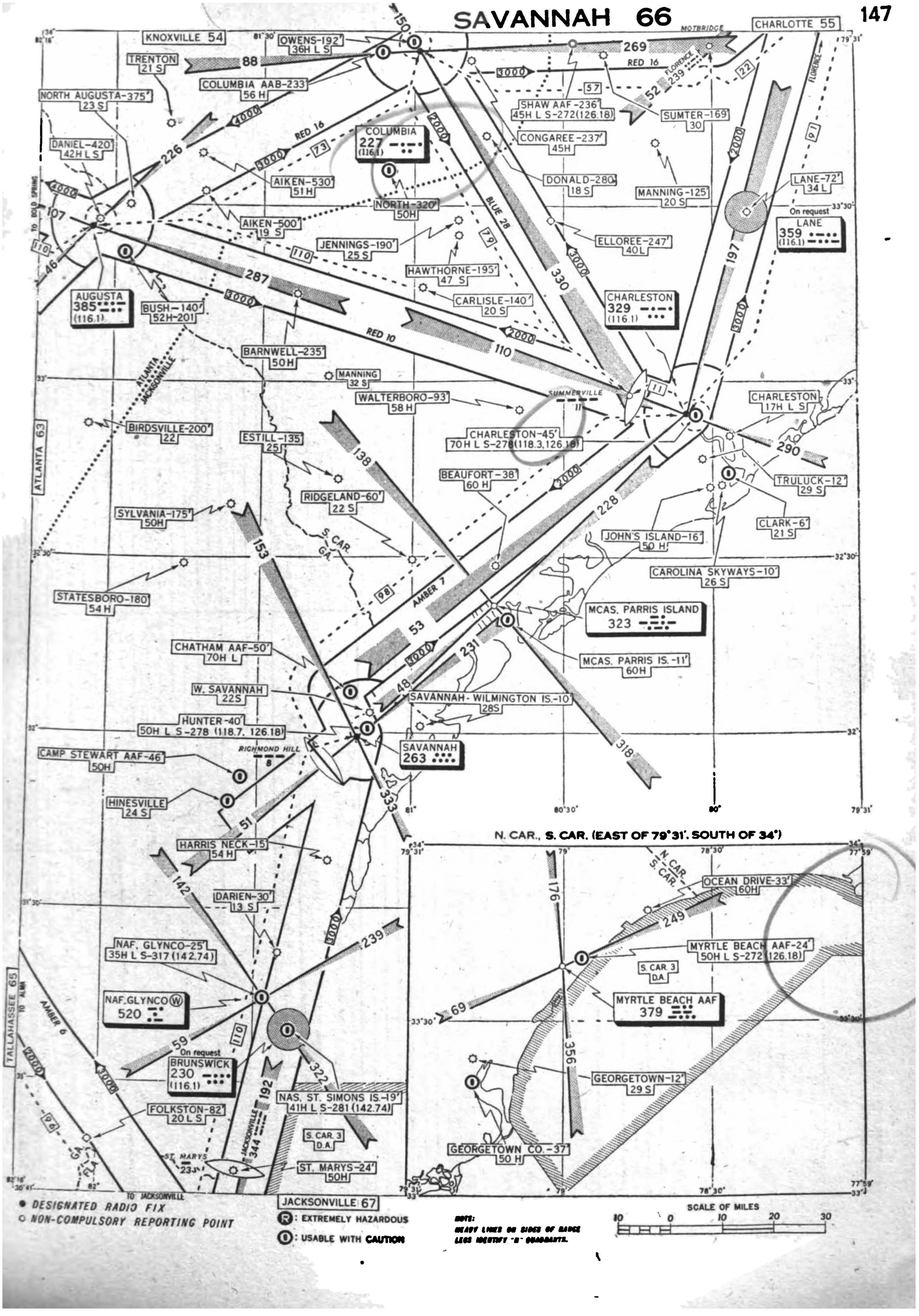
● DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

R: EXTREMELY HAZARDOUS

O: USABLE WITH CAUTION.

SAVANNAH 66


KNOXVILLE 54
OWENS-192' 36H L S
TRENTON 21 S
COLUMBIA AAB-233' 56 H
NORTH AUGUSTA-375' 23 S
DANIEL-420' 42H L S
COLUMBIA 227 (116.1)
AIKEN-530' 51H
AIKEN-500' 19 S
NORTH-320' 50H
JENNINGS-190' 25 S
HAWTHORNE-195' 47 S
CARLISLE-140' 20 S
AUGUSTA 385 (116.1)
BUSH-140' 52H-201
BARNWELL-235' 50H
MANNING 32 S
WALTERBORO-93' 58 H
BIRDSVILLE-200' 22
ESTILL-135' 25
RIDGELAND-60' 22 S
SYLVANIA-175' 50H
STATESBORO-180' 54 H
CHATHAM AAF-50' 70H L
W. SAVANNAH 22S
HUNTER-40' 50H L S-278 (118.7, 126.18)
CAMP STEWART AAF-46' 50H
HINESVILLE 24 S
HARRIS NECK-15' 54 H
DARIEN-30' 13 S
NAF. GLYNCO-25' 35H L S-317 (142.74)
NAF. GLYNCO (W) 520
BRUNSWICK 230 (116.1)
FOLKSTON-82' 20 L S
NAS. ST. SIMONS IS.-19' 41H L S-281 (142.74)
S. CAR. 3 D.A.
ST. MARYS-24' 50H
ST. MARYS 23
JACKSONVILLE 67
SAVANNAH 263
SAVANNAH-WILMINGTON IS.-10' 28S
MCAS. PARRIS ISLAND 323
MCAS. PARRIS IS.-11' 60H
CAROLINA SKYWAYS-10' 26 S
JOHN'S ISLAND-16' 50 H
BEAUFORT-38' 60 H
CHARLESTON-45' 70H L S-278 (118.3, 126.18)
CHARLESTON 329 (116.1)
CHARLESTON 17H L S
TRULUCK-12' 29 S
CLARK-6' 21 S
SUMMERVILLE
CHARLOTTE 55
SHAW AAF-236' 45H L S-272 (126.18)
CONGAREE-237' 45H
DONALD-280' 18 S
MANNING-125' 20 S
ELLOREE-247' 40L
SUMTER-169' 30
FLORENCE 239
MOTBRIDGE
LANE-72' 34 L
On request
LANE 359 (116.1)
N. CAR., S. CAR. (EAST OF 79°31', SOUTH OF 34°)
OCEAN DRIVE-33' 60H
MYRTLE BEACH AAF-24' 50H L S-272 (126.18)
S. CAR. 3 D.A.
MYRTLE BEACH AAF 379
GEORGETOWN-12' 29 S
GEORGETOWN CO.-37' 50 H
N. CAR.
S. CAR.
GA.
FLA.
TO BOLD SPRING
ATLANTA 63
ATLANTA JACKSONVILLE
TALLAHASSEE 65
TO JACKSONVILLE
RICHMOND HILL
JACKSONVILLE
RED 16
RED 10
BLUE 28
AMBER 7
AMBER 6
150
269
88
226
107
46
287
110
330
197
91
73
79
22
57
52
111
290
228
231
53
48
318
333
51
142
239
138
153
59
192
322
344
176
249
69
356
98
On request
3000
2000
4000
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO — GEORGIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA (Daniel)	385 (VD)(116.1)	SBRAZ-VDT,46°,2.1	(4), 116.1
BUSH FIELD (Augusta)	201	CA	(4) (8-sunset)
BRUNSWICK	230 (BS)(116.1)	MHVT	(4), 116.1
GLYNCO (Navy)	520 (NEA)	MRLWZ	
Glynco NAF-LTA	317 (142.74)	CN,239°, 0.3	3105,4495; 142.74 (8-17)
HUNTER FIELD (Savannah)	278 (126.18) (118.7)	AC	(4): 131.9,126.18, 118.7
RICHMOND HILL FM	(- - -)	FM, 231°, 8	Savannah
ST. MARYS FM	(-)	FM, 12°, 23	Jacksonville, Fla.
ST. SIMONS ISLAND NAS	281 (142.74) (140.58)	CN	(3);142.74,140.58 (630-24)
SAVANNAH (Hunter)	263 (SH)(116.1)	SBMRLZ-VDT,51°,2.2	(4); 116.1
SOUTH CAROLINA			
CHARLESTON	329 (CS)(116.1)	SBRAZ-VDT	(4), 116.1
Charlestor Airport	278 (126.18) (118.3)	AC, 110°, 1.9	(4), 131.9,126.18,118.3
COLUMBIA (Owens Field)	227 (CI)(116.1)	SBRAZ-VDT,330°,1.8	(4), 116.1
LANE (Intermediate)	359 (LX)(116.1)	MHVT	(4), 116.1
MYRTLE BEACH (Army)	379 (DMB)	BMRAZ	
Myrtle Beach AAF	272 (126.18)	CA, 69°, 4.4	(3), 126.18
PARRIS ISLAND MCAS (Navy)	323 (NQR)	MRLZ, 138°, 3.8	(3),3295 (voice and twr on req only with 1 hr advance notice.
SHAW FIELD (Sumter)	272 (126.18)	CA	(3), 126.18 (7-24)
SUMMERVILLE FM	(- - - -)	FM, 296°, 10.7	Charleston

S-Simultaneous Range and Voice; W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Birdsville (Millen)	9.4 WNW;riv S	200	22	
Bush (Augusta)	7.5 SSE;RR W	140	52h R1	
(A) Camp Stewart (Hinesville) (A)	3 NE;hwy SW	46	50h	INACTIVE
(A) Chatham AAF (Savannah) (A)	7.5 NW;RR E	52	70h L5	INACTIVE
DANIEL (Augusta)	2.5 W;RR S	420	42h R1 L5 S2	80, 91 oct.
Darien	0.8 SE;riv S	30	13 S1	Ltd 80 oct. Trees W.
★ Folkston Int,37,MM-AG	0.7 WNW;hwy E	82	20 L3 S1	80 oct. on req.
(N) Glynco NAF (LTA)(N)	6.4 N;hwy SE	25	35h R2 L5 S4	91, 100 oct.
Harris Neck	7 E of So.Newport	15	54h	
Hinesville	3 S; hwy W	55	24 S4	73 oct. No sto. Rdo repairs.
HUNTER (Savannah)	3.5 SW;RR yd NW	42	50h R2 L5 S6	80, 91 oct.
St. Marys	1.7 NNW;hwy S	24	50h	
(N) St. SIMONS ISLAND NAS (N)	6 E Brunswick	19	41h R2 L5 S4	91, 100 oct. No sto. Trees NE,W.
Savannah-Wilmington (Savannah)	8 ESE; hwy N	10	28 S6	73 oct. Trees NE,SW.
Statesboro	3.8 NE;hwy W	180	54h	
Sylvania	7.5 SSE;hwy E	175	50h	
West Savannah(Savannah)	3 W; RR W,N	42	22 S6	80 oct. Pole line NW.

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
SOUTH CAROLINA				
Aiken (old)	2 E; RR NNE	500	19 S4	80 oct. Trees SSW.
Aiken (new)	6 NNE; RR SW	530	51h	
Barnwell	1 WNW;hwy E	235	50h	
(P) Beaufort	4 NW	38	60h	
Carlisle (Bamberg)	4 ESE;riv NE	140	20 S4	80 oct. No sto.
Carolina Skyways (Charleston)	6 SSW;riv W	10	26 S4	80 oct.
CHARLESTON (mun.)	9.8 NW;RR NE	45	70h R2 L6 S4	100 oct.
(N) Charleston	4 N; riv E	13	17h L5 S4	91, 100 oct. No sto. NAVY INAC.
Clark (Charleston)	4 S;riv SW	6	21 S1	80 oct. Trees surround fld.
(A) Columbia AAB (A)	7 SW;RR SE	233	56h	INACTIVE
Congaree (Columbia)	15.5 ESE;RR S	237	45h	
Donald (St.Matthews)	2.5 NNE; RR S	280	18 S1	Ltd 80 oct. Trees SE.
★ Elloree Int,25,AG-CS	5.5 SE;RR N	247	40 L3	Steel mast NE.
Estill	2.5 SSW;RR E	135	25	
Georgetown	1 NW;riv E	12	29 S6	80,91 oct.
(P) Georgetown County	4 S;bay E	37	50h	
Hawthorne(Orangeburg)	5 S; RR E	195	47 S6	80, 91 oct. Tank N.
Jennings (Orangeburg)	2.3 S; RR E	190	25 S2	80, 91 oct. Pole line ENE.
John's Island (Charleston)	7 SSW; rd W	16	50h	
★ Lane Int,24,JX-RW	3 S;RR W	72	34 R1 L3	
Manning (Allendale)	1.5 ENE;hwy N	180	32 S1	80 oct.
Manning	1.5 SE;RR NNE	125	20 S1	Ltd 80 oct.
(A) Myrtle Beach AAF(A)	3 WSW;hwy SE	24	50h R2 L5 S6	73,91,100 oct. No sto.
(A) North (A)	1.5 SE; hwy N	320	50h	INACTIVE
North Augusta	2 E;hwy S	375	23 S4	80 oct.
Ocean Drive (Wampee)	3.5 SE;hwy SE	33	60h	
OWENS (Columbia)	2.5 SE;RR SW	192	36h R1 L4 S6	80 oct. Tank WSW, twr SSE.
(N) Parris Island MCAS	1.5 S	11	60h R1	INACTIVE (N)
Ridgeland	1.3 WNW;hwy E	60	22 S1	73, 80 oct.
(A) Shaw (Sumter)(A)	7 WNW;RR W	236	45h R1 L5 S6	73, 91, 100 oct. JP-1
Sumter	1.5 NW; RR S	169	30	
Trenton	1.2 E;RR ESE	480	21 S1	80 oct.
Truluck (Charleston)	5.5 W;RRs N	12	29 S6	80 oct. Poles surround fld.
(P) Walterboro	1.3 NE;hwy SE	93	58h	

Hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

RADIO — FLORIDA

LOCATION	FREQ. IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BANANA RIVER (Navy)	524 (NPE)	MRLZ	(3)
Banana River NAS	224 (142.74)	CN,106°,4.8	(3), 142.74
BAYARD FM	(- - -)	FM, 158°, 19	Jacksonville
BRYCEVILLE FM	(- - - -)	FM, 269°,20.2	Jacksonville
CECIL NAAS (Jacksonville)	201 (142.74)	CN	3105;142.74 (flying hrs)
DAYTONA BEACH	236(DB)(116.1)	BMLZ-VDT,101°, 2.1	(4), 116.1
DREW FIELD (Tampa)	317 (126.18) (118.5)	C	(4),126.18,118.5,131.9
FORT GEORGE ISLAND FM	(- -)	FM,89°,10.25	Jacksonville
JACKSONVILLE	344(JX)(116.1)	SBRAZ-VDT	(4); 116.1
Jacksonville Arpt No. 1	278 (126.18) (118.5)	AC, 269°, 1.7	(4); 131.9,126.18,118.5
Jacksonville NAS	323 (126.18) (142.74)	CN	(3), 126.18, 142.74
Jacksonville NAS (Seaplane)	3295	CN	3105
MacDILL (Tampa) (Army)	1742 (TM)	H	
MacDill Field	227 (126.18)	CA	(3), 126.18
MELBOURNE	257 (OU)(116.1)	SBRAZ-VDT,158° 2.2	(4); 116.1
NORTH TAMPA FM	(- - - -)	FM, 355°, 10.1	Tampa
ORLANDO	206(OR)(116.1)	BMRLZ-VDT	(4), 116.1
Orlando Arpt.	278 (126.18) (118.7)	C, 220°, 3.4	(4),118.7,134.9, 128.18
PETER O. KNIGHT AIRPORT (Tampa)	278	CI	(4) (12-19)
PINECASTLE(AAF)	248 (126.18)	CA (ILS)	(3),126.18,139.32(8-24)
PINELLAS (St. Petersburg)	272	CI	(4) (8-24)
RUSSELL (Navy) (Fleming OLF)	365 (RUS)	BML, 30°, 3	(3), 128.7
TAMPA (Peter O. Knight Arpt.)	388 (TM) (116.1)	SBRAZ-VDT,55°, 2.6	(4), 116.1
VERO BEACH NAS	242 (VB) (116.1)	MHVT	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER: INBEAT & MILSAUC (PLUS COMPASS LOCATORS)			
PINECASTLE AAF, FLA.	109.1	335	360°Mag	IM	(.17)	MM ····· (.66)	OM -- (4.5)
				MMK			OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station.
(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P)Albert Whitted (St. Petersburg)	2.5 E,bay E	6	33h L3 S6	80,91,100 oct.Coast Gd. Sta.adj. Poles,stack NW,SW.
‡Albert Whitted (St. Petersburg) (NC)	0.8 SE,adj Arpt.	S.L.	Unl. S1	80 oct.Data not verified
Altoona (NC)	0.6 NW,RR E	155	25	Trees ends strips.
Avon Park	1.5 W,RR E	127	40h S1	80 oct.Trees SE.
(A)Avon Park AAF(A)	11 ENE,lake NW	65	54h	INACTIVE.
(N)Banana River NAS	11 SE Cocoa	9	40h R2 L5 S6	91 oct.No ben. (N)
Barberville (NC)	1 SE,bet RR& rd	25	25	Pole line E.
Bartow	5.5 NE,RR NW	128	50h L5 S2	80,91 oct.UNUSABLE.
Bostwick (NC)	1 NW,RR E	53	34	
Bradenton	0.5 S,RR NE	20	24 S1	80 oct.Trees W.Poles SW
(N)Branan OLF(Jax)(N)	14 5 SW	73	40h L	B-2 lgts.
Brooksville	7.5 SW,hwy E	70	70h	
Bushnell	2.8 NE,hwy S	82	60h	N-S rnwy unusable.
Cannon Mills (Orlando)	3.8 E,hwy N	105	41 S6	80 oct.No sto.Poles sur fld.
(N)Cecil NAAS (Jacksonville)	16 WSW,hwy NW	80	50h R1	INACTIVE.Trees sur.fld
Cedar Keys (NC)	1 W,bay S	6	24h	
Clearwater	2.5 NE,hwy S	73	30 S6	80 oct.No sto.Trees W.
Cocoa	1 N,RR E	20	26 L1	Pole line E.trees S,W.

S-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (see page 14)(NC)-Not charted.

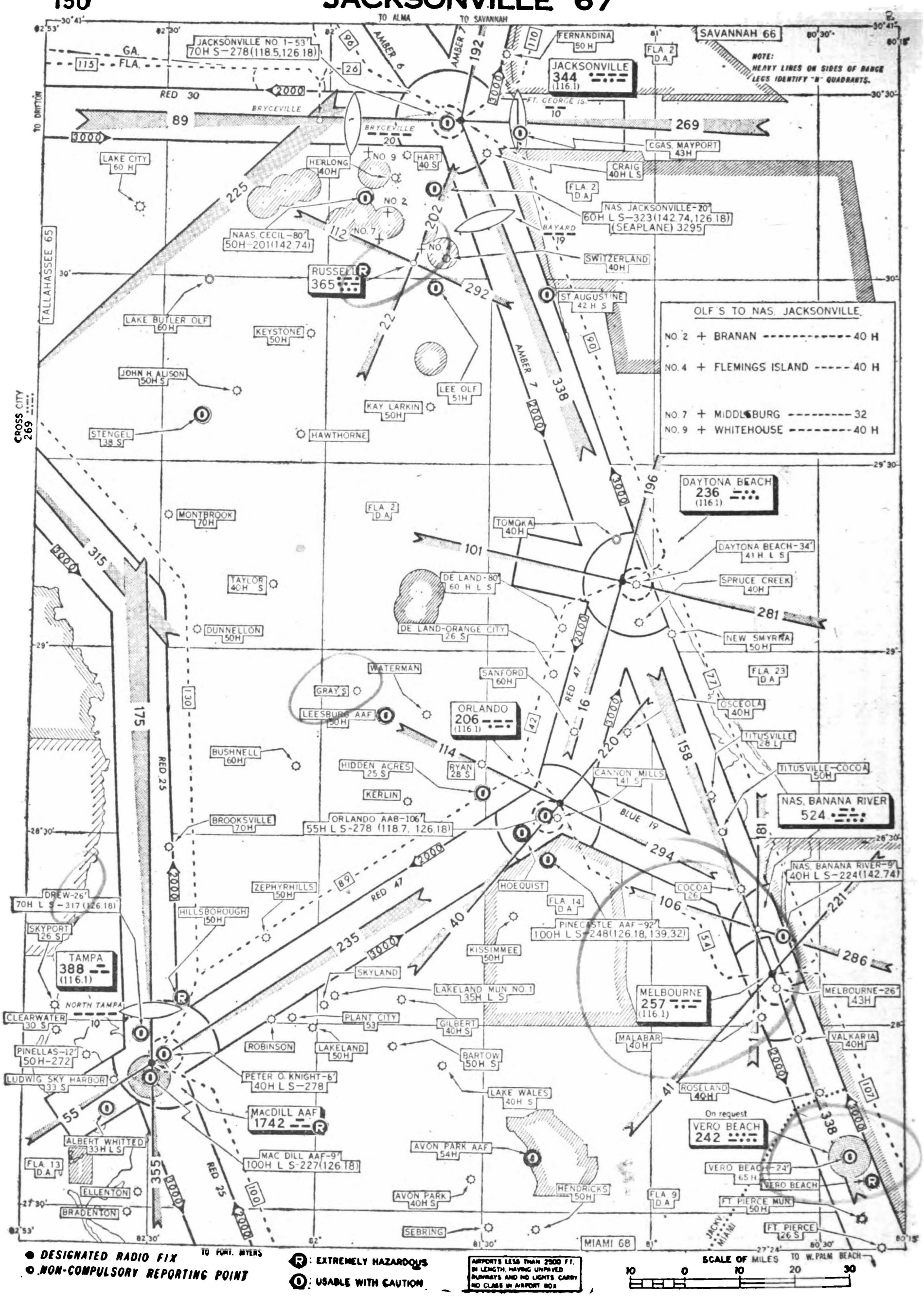
FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Craig (Jacksonville)	9 E,riv N	41	40h L5 S6	80,91 oct. No sto.
Daytona Beach	2.8 SW,hwy S	34	41h R1 L5 S6	80, 91 oct.
Deland	2.5 NNE,hwy S	80	60h	
Deland-Orange City (Orange City)	1 SW,riv W	90	26 S1	80 oct. Pole line E.
(N)Drew (Tampa)	5 W,bay SW	26	70h R1 L5 S6	80, 91 oct.Rdo rec req.
Dunnellon	4.5 E,hwy S	63	50h	
Ellenton	1.5 NNW,RR N	18	15	Pole line NE,trees SW,
(P)Fernandina	4 S,ocean E	16	50h	
(N)Flemings Island OLF (Jacksonville) (N)	17.5 SSW	25	40h L	B-2 lgts.
Ft. Pierce, com.	3.3 SSE,RR E	18	26 L1 S6	80 oct.Pole line W.
(P)Ft. Pierce, mun.	3.5 NW,hwy E	24	50h	
Frank D. Waterman (Eustis)	0.9 SSW,lake NNW	81	23 S1	80 oct.Poles SW,N,W.
Gilbert (Winter Haven)	3.5 NNW,lake W,E	135	40h S6	80, 91 oct.
Gray's (Leesburg)	5 N,RR,hwy W	130	27 S6	80 oct.Orange groves W.
Haines City (NC)	1 NW	175	20 L1	
Hal Hoover's (Leesburg) (NC)	1 N	15	Unl S1	80 oct.Ramp,beach,dock. Data not verified.
Hart (Jacksonville)	6.5 W,RR N	20	40 S6	80,91 oct.Trees sur fld
Hawthorne	1.2 SSE,RR W	120	24 S1	Ltd 80 oct.Trees S,W,NE
Hendricks (Sebring)	6.5 ESE,RR N	62	50h	
Herlong (Jacksonville)	10.5 WSW	87	40h	
Hidden Acres (Clarcona)	1.5 WNW,lake W	93	25 S6	80 oct.Trees E.
ⓒHidden Acres (Clarcona) (NC)	1.5 WNW, adj. arpt.	90	30 S6	80 oct.10 mi.NW Orlando Data not verified.
Hillsborough (Tampa)	7 NNE	50	50h	
Hoequist(Orlando)	3.8 SW,bet lakes	90	20 S4	80 oct.No sto.Trees E.
(N)Jacksonville NAS(N)	7.2 S,riv E,N	20	60h R1 L5 S6	91, 100 oct. NATS.
(A)Jacksonville No. 1	6.3 N,RR W	53	70h R2 L5 S4	73, 91, 100 oct. JP-1, for Army.
ⓒJames Johnstone (St.Petersburg)(NC)	7 W	S.L.	Unl. S6	80 oct.Ramp, all facs. Data not verified.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct.Lgts prior req.
(P)Kay Larkin(Palatka)	3 WNW,RR N	56	50h	
Kerlin (Minneola)	0.5 NE	100	18 S2	80 oct.
Keystone (Keystone Heights)	4.5 NNW,RR W	192	50h	
Kissimmee	2 W,RR N	65	50h	
(N)Lake Butler OLF(N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lakeland	4.5 SW,RR NE	135	50h	
LAKELAND MUN. NO. 1	2.1 N,lake E	159	35h L5 S6	80, 91 oct.Ctc lgts on req till 2400
Lake Wales	2.3 WSW,RR N	225	40h L3 S6	80, 91 oct.All lgts prior req.
(N)Lee OLF (Green Cove Springs)(N)	2.2 SE,riv N	22	51h	INACTIVE.
(A)Leesburg AAF (A)	4 ENE,RR SE	67	50h L3	CLOSED.
Ludwig Sky Harbor (St.Petersburg)	6 NE,bay E	14	33 L1 S6	80 oct.
(A)MacDill (Tampa)(A)	8 SSW,bay NE	9	100h R2 L5 S6	73-100 oct. JP-1.No sto.
Malabar	7 WNW	27	40h	
(N)Mayport CGAS (N)	0.6 NNE,riv N	19	43h	INACTIVE.
Melbourne	2.2 NW,RR E	26	43h R1	
(N)Middleburg OLF (N)	3 NNE,rds E, SE	34	32	
Montbrook(Williston)	3.2 SSW,hwy E	70	70h	
‡Municipal (Lakeland) (NC)	Adj NE on E side arpt.	145	Unl. S1	80 oct. Data not verified.
New Smyrna	3 NNW,RR W	12	50h	
(A)Orlando AAB(Arpt)	2.5 E,lake SE	106	55h R2 L5 S6	91; 100 oct.for military. No sto.
Orlando Aviation Country Club (Orlando)	5 N	90	60 S1	80 oct.Ramp, beach. Data not verified.(NC)

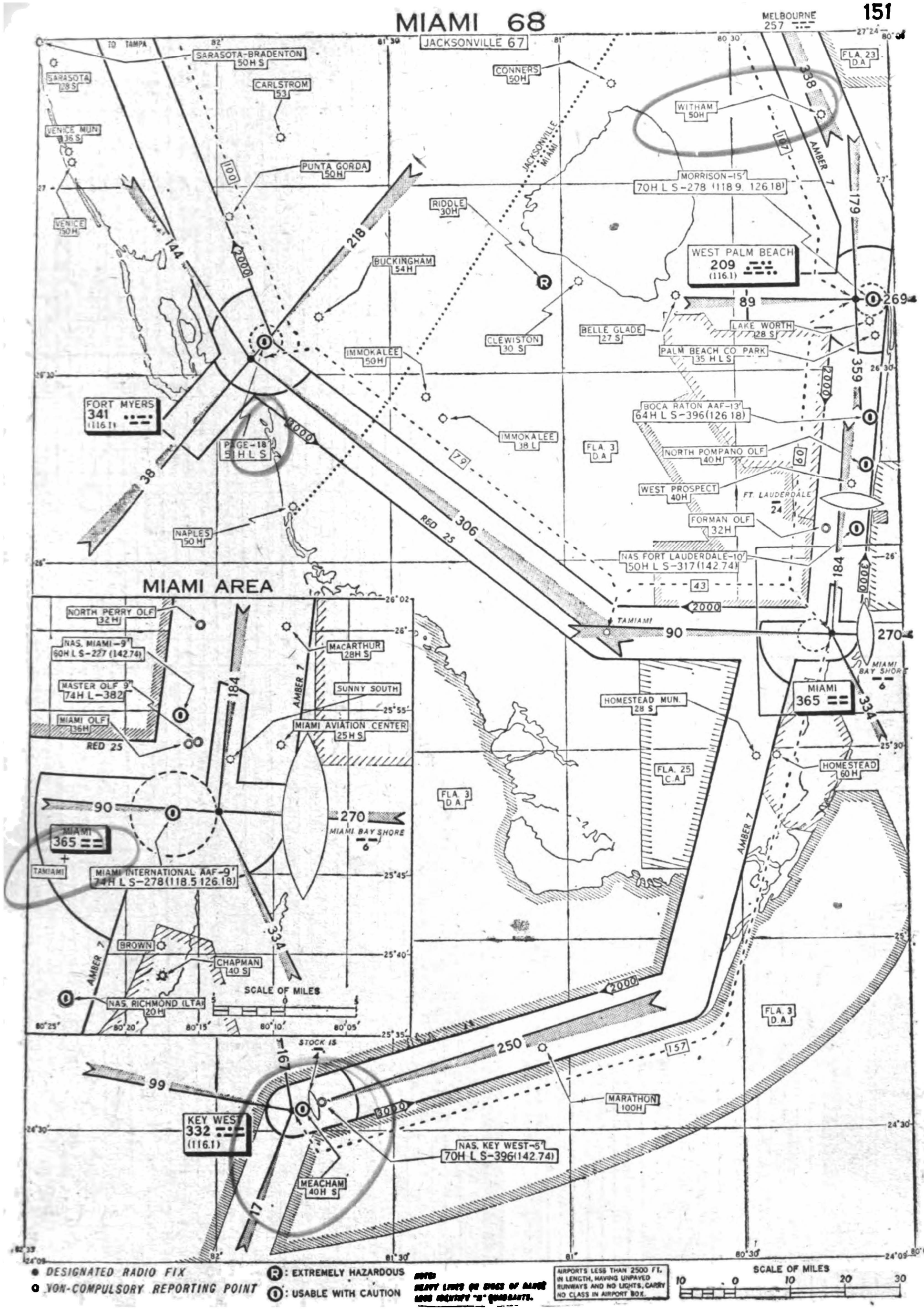
FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Osceola(Sanford)	10 SSE,lake SE	25	40h	
(A)PETER O.KNIGHT (Tampa)	3.7 S,bay S.E. W	8	40h R2 L5 S6	91,80 oct. Shipyard NE Rdo rec req.
(A)Pinecastle AAF(A)	3 ESE,lake NW	92	100h R3 L5 S4	91,100 oct.JP-1.No sto. No range.
PINELLAS (St. Petersburg)	9.5 N,bay N	12	50h R1	
Pinellas County (St.Petersburg)	11 NNW,adj arpt	S.L.	Unl S1	80 oct. Data not verif. (NC)
Piper-Fuller (St. Petersburg)(NC)	4.8 WNW,RR E	21	32	
Plant City	3 E,hwy N	125	53	
Riverside (Jacksonville)(NC)	Adj city	7	Unl. S1	80 oct. Beach. Data not verified.
Robinson(Plant City)	1.5 WSW,RR E	110	18 S1	80,91 oct.Pole line ESE
Roseland(Sebastian)	1.7 W,riv N,E	23	40h	
Ryan (Apopka)	1 N,lake NW	104	28 S6	80 oct.
St.Augustine	4 NNW,hwy W	10	42h S1	80, 91 oct.
Sanford	2.5 SE,lake N,S	57	60h	
Sawyer (Palatka)	2.6 S,RR SE	60	25	Trees N,E,S. (NC)
Sebring	4 SW,lake NE	200	20 S1	80 oct.Pwr line SW.
Skyland(Lakeland)	1.9 WNW,RR S	170	23 S6	80 oct.No sto.Trees S.
Skyport (Dunedin)	1.5 N,RR E	4	26 S6	80 oct.No sto.Pole line NE
Spruce Creek(Deland)	16 ENE	25	40h	3.5 mi N Sansula.
Stengel(Gainesv'l)	4 WSW,RR SE	70	38 S6	80 oct.Trees sur fld.
Swi..erland	1.5 SE	31	40h	
(P)Taylor.(Ocala)	1 SW,RR NE	72	40h L3 S6	80,91 oct.Lgts and ngt repairs prior req.
‡Titusville (NC)	Adj NE	S.L.	Unl. S1	73 oct.80 oct. on req.
(P)Titusville-Cocoa (Titusville)	6 S,riv E	35	50h	Data not verified.
★ Titusville Int,20, MM-AG	1.3 NW,RR E	28	28 L3	
Tomoka (Daytona Beach)	7.8 NW	29	40h	
Valkaria (Melbourne)	8 SSE,RR E	26	40h	
VERO BEACH	1 NW,RR E	24	65h R1	
Wauchula	2.1 E,riv W	120	21	Trees N, E, NE.
(N)Whitehourse OLF (Jacksonville)(N)	13 W,RR S	102	40h L	B-2 lgts.
Wimauma	0.8 ESE,RR W	35	36	Cattle on fld.Bldg W.
Zephyrhills	1.5 ESE,RR W	92	50h	
(N)Banana River NAS ⓒ (N) (NC)	11 SE Cocoa	9	116 L S6	87,98 oct. Ramps,all facs.
ⓒBob Orrell (Daytona Beach) (NC)	2 N	S.L.	264 S4	Fuel, ramp, float.
‡Bradenton (NC)	Adj N	1	Unl. S1	73 oct.80 oct. on req. Ramp, float.
(N)Jacksonville NAS ⓒ (N) (NC)	7.2 S	S.L.	Unl. L5 S4	91,100 oct.Ramps,all facs.
‡Lotela(Avon Park) (NC)	2 SE,RR SW	100	66 S1	80 oct.Beach.
(N)Melbourne (N)(NC)	Adj. S	S.L.	Unl.	INACTIVE.Float.
ⓒPeter O. Knight (Tampa) (NC)	4 S,arpt W	8	Unl. S6	80 oct.Ramps, all facs
ⓒRaymond's(Daytona Beach) (NC)	1.5 N	S.L.	Unl. S6	80 oct.91 oct. on req. Ramps.
‡Raymonds(Orlando) (NC)	2 W		50 S1	80 oct.Float.Twr NE. Data not verified.
‡St.Augustine (NC)	Adj. S	S.L.	Unl. S1	80,91 oct.Float,beach, dolly.
(N)St.Petersburg ⓒ CGAS (N)(NC)	2.5 E	S.L.	Unl. L S4	80-100 oct. Ramps.

JACKSONVILLE 67



MIAMI 68


JACKSONVILLE 67
MELBOURNE 257
TO TAMPA
SARASOTA-BRADENTON 50H S
SARASOTA 28 S
CARLSTROM 53
CONNERS 50H
FLA. 23 D.A
VENICE MUN 36 S
PUNTA GORDA 50H
WITHAM 50H
JACKSONVILLE MIAMI
MORRISON-15' 70H L S-278 (118.9, 126.18)
AMBER 7
VENICE 50H
RIDDLE 30H
WEST PALM BEACH 209 (116.1)
BUCKINGHAM 54H
CLEWISTON 30 S
BELLE GLADE 27 S
LAKE WORTH 28 S
PALM BEACH CO. PARK 35 H L S
IMMOKALEE 50H
FORT MYERS 341 (116.1)
PAGE-18' 51 H L S
IMMOKALEE 38 L
FLA. 3 D.A
BOCA RATON AAF-13' 64H L S-396 (126.18)
NORTH POMPANO OLF 40H
WEST PROSPECT 40H
FT. LAUDERDALE
FORMAN OLF 32H
NAPLES 50H
RED 25
NAS. FORT LAUDERDALE-10' 50H L S-317 (142.74)
TAMIAMI
MIAMI BAY SHORE
MIAMI 365
HOMESTEAD MUN. 28 S
HOMESTEAD 60H
FLA. 25 C.A
MIAMI AREA
NORTH PERRY OLF 32H
NAS. MIAMI-9' 60H L S-227 (142.74)
MACARTHUR 28H S
SUNNY SOUTH
MASTER OLF 9' 74H L-382
MIAMI OLF 36H
MIAMI AVIATION CENTER 25H S
MIAMI INTERNATIONAL AAF-9' 74H L S-278 (118.5 126.18)
BROWN
CHAPMAN 40 S
NAS. RICHMOND (LTA) 20H
SCALE OF MILES
STOCK IS
KEY WEST 332 (116.1)
MARATHON 100H
NAS. KEY WEST-5' 70H L S-396 (142.74)
MEACHAM 40H S
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE: HEAVY LINES ON EDGES OF MAJOR AREAS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOCA RATON AAF	396 (126.18)	CA	(3), 126.18 (6-24)
FORT LAUDERDALE FM	(-)	FM, 4°, 24.4	Miami
FORT LAUDERDALE NAS	317 (142.74)	CN	3105,4495;142.74 (7-2330)
FORT MYERS (Page)	341 (FM)(116.1)	SBRAZ-VDT,38°,3.6	(4), 116.1
KEY WEST	332 (KW)(116.1)	SBRAZ-VDT	(4), 116.1
Key West NAS	396 (142.74)	CN, 70°, 5.8	(3);142.74 (sunrise to sunset)
Key West NAS (Seaplane)	272 (142.74)	CN	3105,142.74 (prior req.)
MASTER OLF (Miami)	382	CN	(3); 142.74
MIAMI BAY SHORE FM	(- -)	FM, 90°, 6	Miami
MIAMI	365 (MM)	SBRAZ-DT	(4)
Miami International Arpt.	278 (126.18) (118.5)	AC, 270°, 2.3	(4); 131.9, 126.18, 118.5
Miami NAS	**227 (142.74)**	**CN**	**3105,4495; 142.74 (7-sunset)**
MORRISON FIELD (West Palm Beach)	**278 (126.18) (118.9)**	**C**	**(4); 118.9, 131.9 only**
STOCK ISLAND LFM	**(-)**	**LFM, 70°, 4**	**Key West**
WEST PALM BEACH (Morrison Field)	**209 (DWZ) (116.1)**	**BMRAZ-VDT,89°,2.4**	**(4), 116.1**

S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arcadia	2 SE,hwy W	60	30	Trees around fld.
Belle Glade	1 NNE,lake W	17	27 S6	73 oct. No sto. Light acft.
(A) Boca Raton AAF (A)	2 NNW,canal E	13	64h R1 L5 S6	73, 91, 100 oct. Twr SE.
Brown (Miami)	10 SSW,RR NW	10	20 S6	80, 91 oct. No sto. Trees E.
Buckingham (Ft.Myers)	10 E,riv SW	23	54h	
Carlstrom (Arcadia)	7 SSE,hwy N	56	53	
⊙Chalk's (Miami) (NC)	2 E,causeway N	S. L.	Unl. S4	80 oct. Beach, ramps, winch
Chapman (Miami)	10 SW,RR W	3	40 S6	80,91 oct. No sto. Pwr line W.
Clewiston	1.6 SW,RR N	19	30 S6	80 oct. Pole line N, E, S, W.
Conners (Okeechobee)	2.5 NW, RR S	34	50h	
(N)⊙Dinner Key CGAS (N)(NC)	2.5 SE	S. L.	150 L5 S4	100 oct Ramps, haulout facs.
Dorr (Arcadia)	11.5 E,hwy N	74	53	
⊙East Coast Aviation Service (Miami)(NC)	8 NNE	S. L.	132 S4	80 oct. Ramps, buoys, obsts.
⊙Embry Riddle (Miami) (NC)	2 E,causeway S	S. L.	65 S4	80 oct.
(N) Forman OLF (Ft. Lauderdale) (N)	6.5 WSW	7	32h	
(N) Fort Lauderdale NAS	3.5 SSW,RRW	10	50h R1 L5 S4	91, 100 oct. No sto. (N)
⊙Fort Myers (NC)	2 N	S. L.	Unl S4	80 oct. Ramp, all facilities.
Homestead	5 E	8	60h	
Homestead, mun.	2 NE, rd N	8	23 S6	80 oct.
Immokalee Airfield	1.3 ENE,RR W	20	50h	
★ Immokalee Int, 13, TM-MM	5.25 SE,RR SW	23	38 L2	
(N) Key West NAS (N)	7 ENE	5	70h R2 L5 S4	91, 100 oct. No sto.
(N)⊙Key West NAS (N) (NC)	7 ENE	S. L.	130 R1 L S6	91, 100 oct. Ramps, buoys
Lake Worth	2 W,hwy N	12	28 S1	80 oct.
MacArthur (Hollywood)	1 SW,RR E	12	28h S4	80, 91 oct. No sto. Trees SE.
Marathon	1.8 ENE,hwy S	6	100h	
(N) Master OLF (Miami)(N)	8 NNW,RR W	9	74h R1 L5	Pwr line SE.
MEACHAM (Key West)	2.3 E,ocean S	4	40h S1	80,91 oct. ARPT OF ENTRY.
Miami Aviation Center (Miami)	7.5 NNE,bay E	8	25h S6	80, 91 oct. No sto.
‡Miami Aviation Center (Miami)(NC)	8.5 N	S. L.	Unl. S1	80 oct. Data not verified.
(A) MIAMI INTERNATIONAL - AAF	5.5 NW,RR S	9	74h R2 L5 S6	91, 100 oct. JP-1. FEE. 2-way radio on req. AIRPORT OF ENTRY.
(N) Miami NAS (N)	10.7 NW,canal N	9	60h R1 L5 S6	91, 100 oct. No sto.
(N) Miami OLF (N)	7.9 NNW,RR E	91	36h	
⊙Midet (West Palm Beach) (NC)	1 N	S. L.	158 S4	80, 87 oct. Ramps, all facs. ARPT OF ENTRY.
(A) MORRISON (West Palm Beach) (A)	2 W,canal S	15	70h R2 L5 S5	73-100 oct. CLOSED. FOREIGN CLEARING STATION
‡Municipal (Lake Worth)	Adj Lake Worth	S. L.	Unl. S1	80 oct. Ramp, beach, obsts E. Data not verified.
Naples	2 NE,RRs E,W	8	50h	
(N) North Perry OLF (Hollywood)	6.3 W	9	32h	
(N) North Pompano OLF	1.5 NE,RR W	21	40h	(Pompano)
PAGE (Ft. Myers)	4 S,RR SE	18	51h R1 L5 S6	80, 91 oct. Ground traffic
Palm Beach County Park (Lantana)	2 WNW,lake N	16	35h L5 S6	80, 91 oct. Fld lgts prior req. Lake E
(P) Punta Gorda	5 ESE,hwy SW	22	50h	
Punta Gorda, mun.(NC)	3 SSE,hwy E	4	24	
(N) Richmond NAS (LTA)	15 SW Miami	13	20h	INACTIVE. (N)
Riddle (Clewiston)	7.6 W,hwy N	19	30h	Use rnwys only.
SARASOTA-BRADENTON (Sarasota)	3.5 NNW,hwy W	24	50h L5 S6	80, 91 oct.
Sarasota, com.	2.5 E,RR S	25	28 S1	80 oct.
Sunny South (Miami)	6 N,hwy N	12	27	
Tamiami (Miami)	12 W		35h S4	80, 91 oct. No sto. Data not verified.
Venice	2 S,RR E	15	50h	Pole lines N, E.
Venice, mun.	0.5 SE,RR E	20	36 S2	80 oct.
Oakland Park (West Prospect)	2.5 WNW	14	40h	Trees sur field.
(P) Witham (Stuart)	1.5 SE,RR SW	17	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (see page 79) (NC)-Not charted.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURBANK (Lockheed Air Terminal)	248(BU)(116.1)	SML-VDT;93°,3	(4);116.1
BURBANK LFM	(- -)	LFM 97°, 1.5	Burbank
CHATSWORTH	341 (L)	FMK;277°, 10.6	Burbank
CHATSWORTH LFM	(. . .- - - -)	LFM, 276°, 10.5	Burbank
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
DOWNEY	379 (V)	FMK; 77°, 11	Los Angeles
EL TORO MCAS	3295(142.74)	CN	3105,4495;126.18,142.74
GLENDALE	371 (S)	K; 97°, 7.3	Burbank
GRAND CENTRAL ARPT (Glendale)	201	CI	(4);131.9, (7-18)
HAWTHORNE NORTHROP	396 (126.18)	CA	(3);126.18 (730-2230)
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LOCKHEED AIR TERMINAL (Burbank)	278 (126.18) (118.3)	AC	(4);131.9,126.18,118.3
LONG BEACH	233 (HB)	SBMRLZ-DT	(3)
Long Beach Airport	347 (126.18) (118.5)	AC; 298°, 3.9	(4);131.9,118.5,126.18
LOS ALAMITOS NAAS	317 (142.74)	CN	3105;142.74 (8-18)
LOS ANGELES	260 (LA)	SBRAZ-DTX	(4)
Los Angeles Airport	272 (126.18)	C (ILS);244°,3.8	(4);116.1,126.18
NEWHALL (Int)	209(NH)(116.1)	BMRL-VDT;317°,0.1	(4);116.1
SANTA ANA (Navy)	472 (NTK)	BMRLZ	3105;142.74 (13-5)
Santa Ana NAS	6970(142.74)	CN;250°,0.6	3105,3195;142.74 (flying hrs & req)
SANTA MONICA AIRPORT	272 (126.18)	CI	(3);126.18 (8-18)
TERMINAL ISLAND NAS (San Pedro)	338 (142.74)	CN	(3);142.74 (flying hrs)
VAN NUYS METROPOLITAN AIRPORT	219 (126.18)	CA	(3);126.18 (7-19)

COLORADO

AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DENVER (Stapleton Airfield)	379 (DV) (111.1)	SBMRAZ-VDTX;159°, 2.5	(4); 131.7
DENVER (9 mi ENE Stapleton)	109.1 (DV) 111.1	VAR-VDT	(4); 131.7
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
LOWRY FIELD (Denver)	396 (126.18)	CA	(3);126.18
SKY RANCH ARPT (Denver)	206	CI	(3) (sunrise to sunset)
STAPLETON AIRFLD(Denver)	278 (126.18) (118.7)	AC (ILS)	(4);131.9,126.18
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

— DENVER AREA —

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
STAPLETON, COLORADO	110.3	335	206° Mag.	IM	MM .....(.64)	OM --(4.2)
					MMK	OMK

— LOS ANGELES AREA —

LOS ANGELES, CALIFORNIA	109.9		247° Mag.	IM (.05)	MM	OM (2.45)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Brackett (Pomona)	3 NW;hwys S,E	1010	26 S6	80 oct. Fence W.
Cable-Claremont	1.8 ENE;RR E	1400	30h S4	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cal Aero (Ontario)	5 SSE;hwy W	625	47h	Rest'd to D.P.C.
Compton	1.5SW;hwyE,W,N	90	33 S6	80 oct. Poles E, W.
Compton Central(Compton)	2 NW;RR W	100	31 L S6	80,91 oct. No sto. B-2 lgts req
Corona	2.3 ESE; RR N	645	22 S4	80,91 oct. Pole line W.
Cranford (Artesia)	2.1 NE;RR W	55	27 S6	80 oct. Pole line S.
Culver City(Los Angeles)	9 WSW;RR S,W	25	29 S6	80 oct. Poles NE.
El Monte	1 NNE;rd E	300	21 S6	80 oct. Trees SW. Bldgs NE
(N) EL Toro MCAS (N)	3.7 NW;RR SW	380	72h R1 L5 S4	73,87,91,100 oct.
Fullerton	3 W;RR N	95	18 L1 S6	80 oct.
Galbraith (Palmdale)	0.3 W;RR E	2660	21 S1	73,80 oct.
Gardena Valley (Gardena)	2 NW; RR SE	50	23 S6	80 oct. Pole line E.
Grand Central (Glendale)	2.2 NW;bet RR and river	490	50h R1 L5 S6	73,83,91,100 oct.
Grey Butte (Victorville)	22 W	3050	37h	Mts. S.
Hawthorne	1.2 E;RR S	64	50h R1	Poles W. Closed to transients.
Hughes (Culver City)(NC)	3.6 SSW;RR N	15	91	Pole line NE. RESTRICTED.
LOCKHEED AIR TERMINAL (Burbank)	3.5 WNW;RR S	763	60h R2 L6 S6	73,80,91,100 oct. No sto. Two-way radio required.
Lomita Landing Strip	1 W;hwy S	95	52h	Mts. S.
(A) LONG BEACH	3 NE;RR W	56	69h R2 L6 S6	80,91,100 oct. JP-1. No sto.
(N) Los Alamitos NAAS (N)	1 SE;riv W	27	60h R1 L5 S4	73,91,100 oct.
(A)(N) Los Angeles(MinesFld)	9.5 SW;RR E	96	51h R3 L6 S6	91,100 oct.Rdo req. ARMY INACT.
(N) Mile Sq.Farm OLF (San Diego)	3.5 SE;riv E	44	25h L	Pwr lines S.
Monrovia	0.5 SE;RR S	500	27 S6	80,91 oct.
★ Newhall Int.3A,LA-SF	2.2 NW;RR E	1190	40 R1 L3 S1	90 oct. for airlines.
Norco	2.5 N;RR S	590	14 S1	80 oct.
Ontario	1.5 E;bet RRs	934	62h	
Orange Co. (Santa Ana)	5 S;at fork rds	45	51h S6	80-100 oct.
(N) Palisades OLF (N)(NC)	2 E Costa Mesa	107	25	Bay N,W.
Pomona	1.8 SSE;riv S	775	20 S6	80 oct.
Rosemead (El Monte)	1 W;RR N	255	30 S6	80,91 oct. No sto.
San Fernando	1.2 E;hwy SW	1150	35 S6	80 oct. Poles SW.
(N) Santa Ana NAS (LTA)(N)	3.6 SE;RR NE	58	20h R2 L5 S4	91,100 oct. No sto.
(P) Santa Monica	2.6 ESE;rd E	175	50h R1 L5	No bcn.Lgts prior req.
Santa Susana	0.5 S;RR N	955	19 S6	73 oct.No sto. Pwr line W.
Sky Ranch (Puente)	1.3 E;RR S	402	30 S4	80 oct. No sto.
(N) Terminal Is. NAS (San Pedro) (N)	2 ENE	14	49h R1 L6 S1	91,100 oct. NAFC.
Vail (Los Angeles)	6.5 E;RR SW	175	27 S6	80,91 oct. Radio repairs.
(A,N)Van Nuys Met.(A,N)	2.8 NW;RR N	800	62h R1 L5 S4	100 oct.
Vultee (Downey)	1.5 SSE;hwy W	100	40h L1	60' trees WSW. RESTRICTED.
Whiteman (San Fernando)	2 SE;RR N	1000	33h S6	80 oct. Pole line NNW,NE,SW.
(N)(C)San Pedro NAS (N)(NC)	2 ENE	S.L.	Unl L1 S4	73-100 oct. Ramps; all facs.

COLORADO

Boulder	3 ENE;RR NW,S	5350	42 S5	80,91 oct. Bldg. N
(P) Buckley (Denver)(A)	12.5 ESE	5582	80h	
Civil Air Patrol (Denver)	3.9 E	5328	29 L S6	80 oct. Flood lgts.
Combs (Denver)	3 NE;RR N	5276	29 S6	80,91 oct. Pole line N, S.
East Colfax (Watkins)	2.7 WSW;hwy N	5650	30 S4	73 oct. Poles N, NW.
Englewood	6.8 SSE;hwy S	5520	45 S6	80,91 oct. No sto.
(A) Lowry (Denver) (A)	5.3 ESE	5391	83h R1 L5 S6	91,100 oct. JP-1.
Ruston (Denver)	10 NNW;hwy W	5550	40 S1	80,91 oct. Pole line W,SW.
Rutledge (Dupont)	1 S;bet RR;hwy	5107	42 S6	80 oct. Pole lines sur fld.
Sky Ranch (Denver)	12.6 E;RR S	5478	55 R1 S6	73,80,91 oct.
STAPLETON (Denver)	5 ENE;RR N	5320	70h R3 L6 S6	80,91 oct.
Vest Acft. Co. (Denver)	3.8 NE;hwy W	5236	35 L2 S6	80,91 oct.

CHART 69

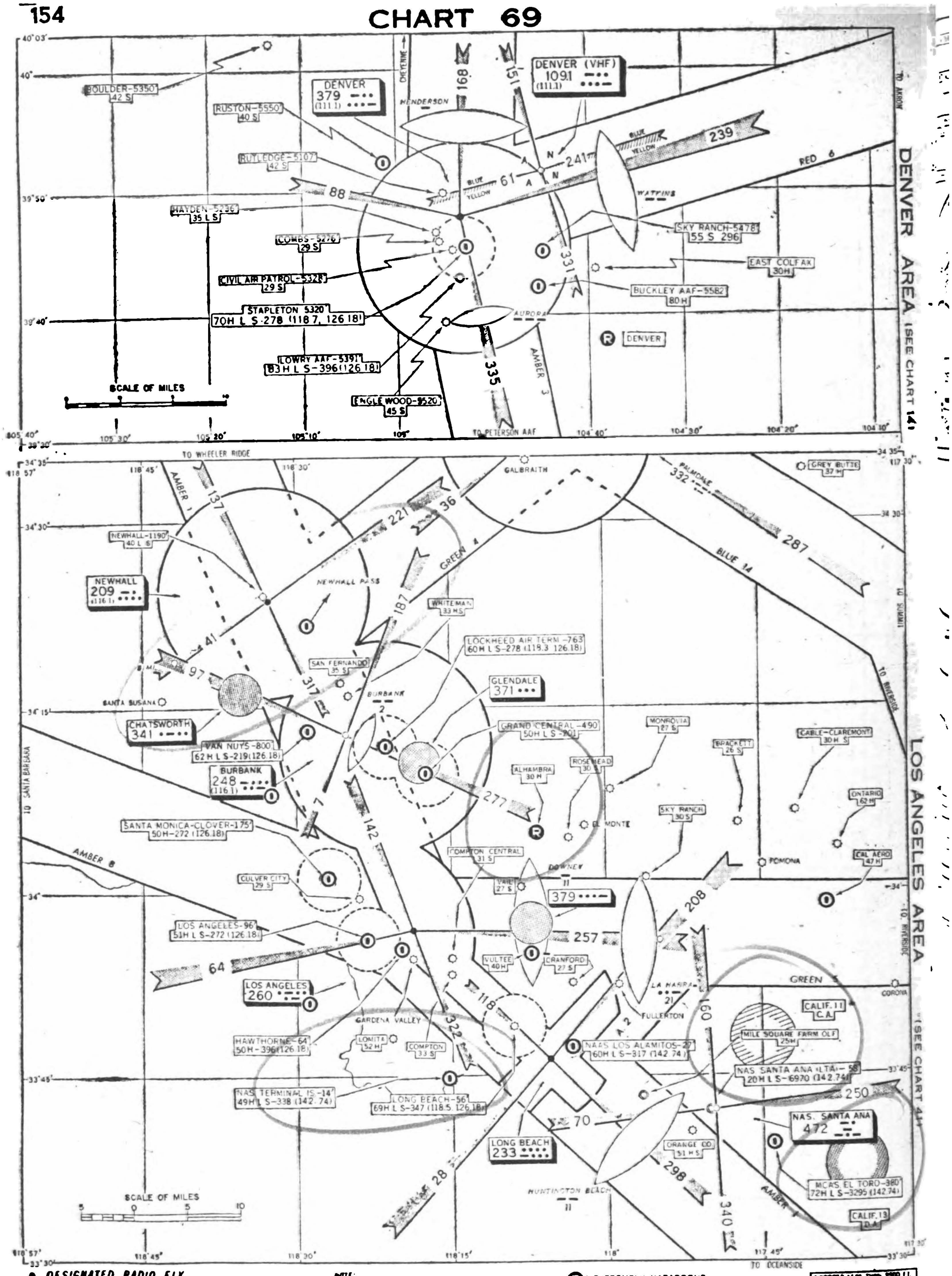
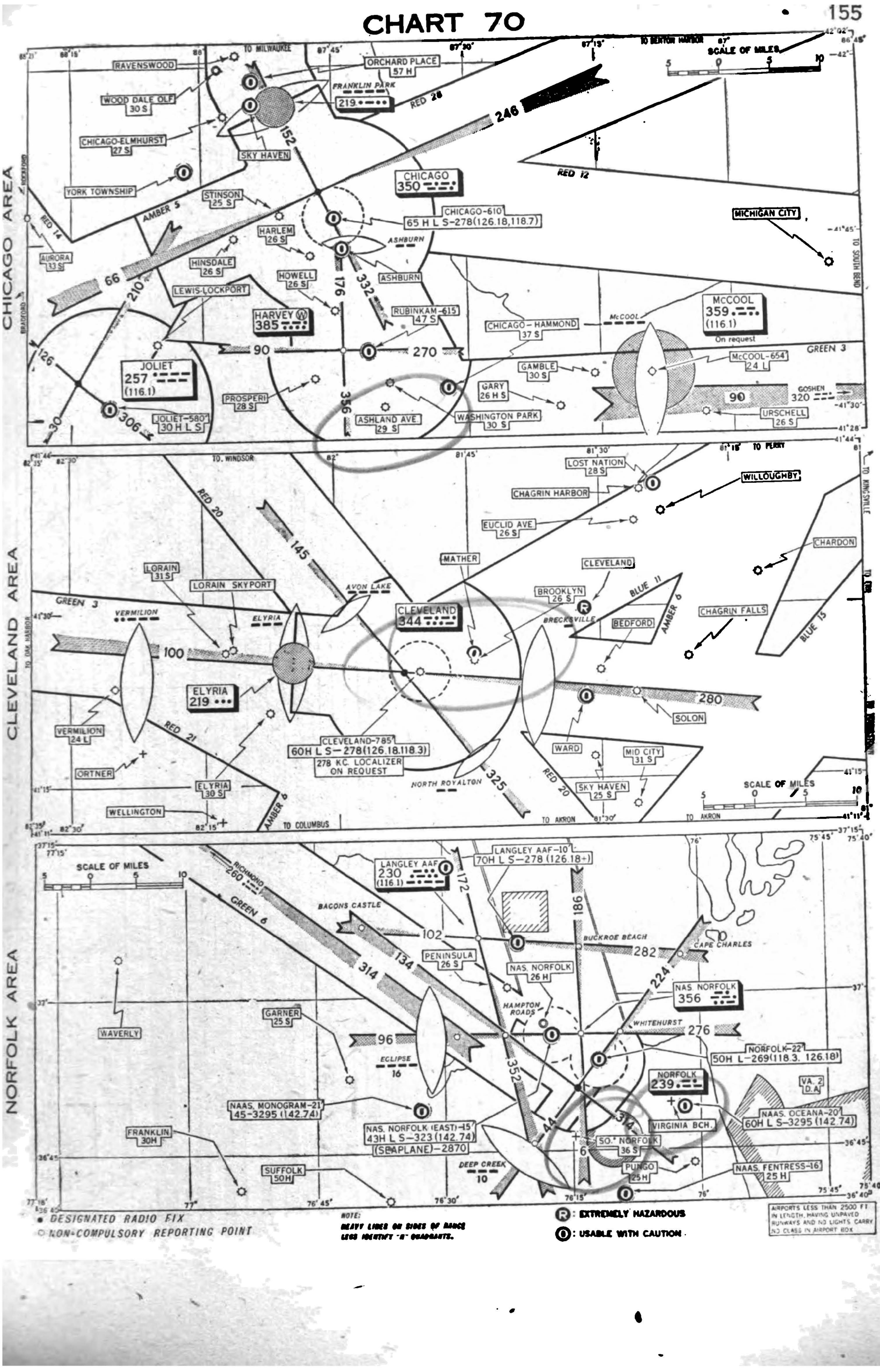

DENVER AREA
(SEE CHART 141)
LOS ANGELES AREA
(SEE CHART 44)
DENVER (VHF) 109.1 (111.1)
DENVER 379 (111.1)
BOULDER-5350 42 S
RUSTON-5550 40 S
RUTLEDGE-5107 42 S
HAYDEN-5236 35 L S
COMBS-5276 29 S
CIVIL AIR PATROL-5328 29 S
STAPLETON 5320 70H L S-278 (118.7, 126.18)
LOWRY AAF-5391 83H L S-396 (126.18)
ENGLEWOOD-9520 45 S
HENDERSON
CHEYENNE
AURORA
SKY RANCH-5478 55 S 296
EAST COLFAX 30H
BUCKLEY AAF-5582 80H
WATKINS
BLUE YELLOW
RED 6
AMBER 3
TO PETERSON AAF
TO AKRON
SCALE OF MILES
NEWHALL 209 (116.1)
NEWHALL-1190 40 L S
SANTA SUSANA
CHATSWORTH 341
VAN NUYS-800 62 H L S-219 (126.18)
BURBANK 248 (116.1)
SANTA MONICA-CLOVER-175 50H-272 (126.18)
CULVER CITY 29 S
LOS ANGELES-96 51H L S-272 (126.18)
LOS ANGELES 260
HAWTHORNE-64 50H-396 (126.18)
NAS TERMINAL IS-14 49H L S-338 (142.74)
LONG BEACH-56 69H L S-347 (118.5, 126.18)
LONG BEACH 233
NEWHALL PASS
SAN FERNANDO 35 S
BURBANK
GLENDALE 371
GRAND CENTRAL-490 50H L S-201
LOCKHEED AIR TERM-763 60H L S-278 (118.3 126.18)
WHITEMAN 33 M S
GALBRAITH
GREEN 4
BLUE 14
AMBER 1
AMBER 8
GREY BUTTE 37 M
PALMDALE 332
287
239
MONROVIA 27 S
ALHAMBRA 30 H
ROSEMEAD 30 S
EL MONTE
SKY RANCH 30 S
BRACKETT 26 S
CABLE-CLAREMONT 30 H S
ONTARIO 62 H
CAL AERO 47 H
POMONA
COMPTON CENTRAL 31 S
DOWNEY
VAIL 27 S
379
257
VULTEE 40 H
CRANFORD 27 S
LA HABRA 21
FULLERTON
GARDENA VALLEY
LOMITA 52 H
COMPTON 33 S
NAAS LOS ALAMITOS-27 60H L S-317 (142.74)
MILE SQUARE FARM OLF 25H
CALIF. 11 C.A.
CORONA
NAS SANTA ANA (LTA)-58 20H L S-6970 (142.74)
NAS. SANTA ANA 472
ORANGE CO. 51 H S
MCAS EL TORO-380 72H L S-3295 (142.74)
CALIF. 13 D.A.
HUNTINGTON BEACH
TO OCEANSIDE
TO WHEELER RIDGE
TO RIVERSIDE
TO SUMMIT
168
151
61
88
241
331
335
137
221
36
187
41
97
317
142
277
208
64
118
322
70
28
298
340
250
160
TO PETERSON AAF
SCALE OF MILES
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE
ARCS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, PAVED, UNPAVED RUNWAYS AND NO LIGHTS. CARRY NO CLASS IN AIRPORT BOX

CHART 70


CHICAGO AREA
CLEVELAND AREA
NORFOLK AREA
TO MILWAUKEE
TO BENTON HARBOR
SCALE OF MILES
RAVENSWOOD
WOOD DALE OLF 30 S
CHICAGO-ELMHURST 27 S
YORK TOWNSHIP
STINSON 25 S
AURORA 33 S
HINSDALE 26 S
HARLEM 26 S
HOWELL 26 S
LEWIS-LOCKPORT
HARVEY 385
JOLIET 257 (116.1)
JOLIET-580 30 H L S
PROSPERI 28 S
ORCHARD PLACE 57 H
FRANKLIN PARK 219
SKY HAVEN
CHICAGO 350
CHICAGO-610 65 H L S-278(126.18,118.7)
ASHBURN
ASHLAND AVE 29 S
RUBINKAM-615 47 S
CHICAGO-HAMMOND 37 S
McCOOL 359 (116.1) On request
McCOOL-654 24 L
GAMBLE 30 S
GARY 26 H S
WASHINGTON PARK 30 S
GOSHEN 320
URSCHELL 26 S
MICHIGAN CITY
TO SOUTH BEND
GREEN 3
RED 28
RED 12
AMBER 5
RED 14
246
152
66
210
176
332
90
270
126
30
306
356
TO WINDSOR
RED 20
145
LORAIN 31 S
LORAIN SKYPORT
AVON LAKE
CLEVELAND 344
MATHER
LOST NATION 28 S
CHAGRIN HARBOR
EUCLID AVE 26 S
WILLOUGHBY
TO PERRY
TO KINGSVILLE
CLEVELAND
BROOKLYN 26 S
BRECKSVILLE
BEDFORD
BLUE 11
AMBER 6
CHAGRIN FALLS
BLUE 15
CHARDON
VERMILION
ELYRIA
100
ELYRIA 219
VERMILION 24 L
ORTNER
ELYRIA 30 S
WELLINGTON
RED 21
AMBER 6
CLEVELAND-785 60H L S-278(126.18,118.3)
278 KC. LOCALIZER ON REQUEST
NORTH ROYALTON
325
SOLON
WARD
MID CITY 31 S
SKY HAVEN 25 S
RED 20
TO AKRON
TO COLUMBUS
TO OAK HARBOR
LANGLEY AAF 230 (116.1)
LANGLEY AAF-10 70H L S-278 (126.18+)
RICHMOND 260
GREEN 6
BACONS CASTLE
102
172
186
BUCKROE BEACH
282
CAPE CHARLES
224
PENINSULA 26 S
NAS. NORFOLK 26 H
NAS. NORFOLK 356
HAMPTON ROADS
WHITEHURST
276
NORFOLK-22 50H L-269(118.3, 126.18)
NORFOLK 239
VA. 2 D.A
NAAS. OCEANA-20 60H L S-3295 (142.74)
VIRGINIA BCH.
SO. NORFOLK 36 S
PUNGO 25 H
NAAS. FENTRESS-16 25 H
WAVERLY
GARNER 25 S
314
96
EGLIPSE 16
352
44
6
NAAS. MONOGRAM-21 45-3295 (142.74)
NAS. NORFOLK (EAST)-15 43H L S-323 (142.74) (SEAPLANE)-2870
FRANKLIN 30H
SUFFOLK 50H
DEEP CREEK 10
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION.
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
CHICAGO	350 (CG)	SBRAZ-DTX	(4)
Chicago Airport	278(126.18) (118.7)	AC (ILS);152°,2.2	(4);131.9,126.18,118.7
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
FRANKLIN PARK	219 (L)	FMK; 332°, 9.5	Chicago
HARVEY (Rubinkam)	385 (GH)	MLWZ; 90°, 2.2	
JOLIET	257(JO) (116.1)	SBRAZ-VDT; 126°,3.6	(4); 116.1

INDIANA

McCOOL (Int)	359(ML) (116.1)	MHVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

OHIO

AVON LAKE LFM	(- - - -)	LFM, 325°, 8.1	Cleveland
BRECKSVILLE FM	(- - -)	FM, 201°, 10.3	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX	(4)
Cleveland Airport	278 (126.18) (118.3)	AC (ILS);100°,0.7	(4); 118.3, 126.18
ELYRIA FM	(- - -)	FM, 280°, 10.9	Cleveland
ELYRIA	219 (S)	FMK, 280°, 10.9	Cleveland
NORTH ROYALTON LFM	(- -)	LFM, 145°, 10.8	Cleveland
VERMILION FM	(. . - - -)	FM, 280°, 26	Cleveland

VIRGINIA

DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk NAS East Field
FENTRESS NAAS	3295(142.74)	CN	3105,4495;142.74 (on req 2 hrs. notice).
LANGLEY FIELD (Army)	230(DLY) (116.1)	SBMRAPZ-VDT	(3); 116.1
Langley Field	278 (126.18) (116.1)	CA; 102°, 3.5	(4); 126.18 only
MONOGRAM NAAS(Drivers)	3295(142.74)	CN	3105,4495;142.74 (on req only)
NORFOLK	239 (NW)	SBMRLZ-DT	(4)
Norfolk *Airport	269 (126.18) (118.3)	AC; 44°, 3.4	(4);131.9,126.18,118.3
Norfolk (Navy)	356 (NGU)	RMRLZ	
Norfolk NAS(East Fld)	323 (142.74)	CN; 276°, 2.9	(3); 142.74
Norfolk NAS(Seaplane)	2870	CN	2870 (7-17 & on req)
OCEANA NAAS	3295(142.74)	CN	3105,4495;142.74(745-1830)

– CHICAGO AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. on mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CHICAGO, ILL.	109.9		132° Mag.	IM ·····(.04)	MM	OM – –(1.89)
					MMK 201 ···(.71)	OMK

– CLEVELAND AREA –

CLEVELAND, OHIO	109.9		54° Mag.	IM ·····(.06)	MM	OM – –(4.75)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Ashburn (Chicago)	12 SW;hwy W	620	16 S4	73,80 oct.Unsafe after rain.
Ashland Ave(Chicago Hgts	1.5 NW;hwy S	675	29 S6	80,91 oct.Obsts sur fld.
Aurora	3 NNW	701	33 S4	80 oct. Twr NE;stack SE.
(A,N)CHICAGO	9 SW of loop	610	65h R3 L6 S6	73-91 oct;100 oct for Army. FEE.
Chicago-Elmhurst(Elmhurst	2.5 N;hwy SW	707	27 S6	80,91 oct.Poles S,E. CLOSED.
(A) Chicago-Orchard	16 NW;RR W	657	57h	CLOSED.
Chicago-Hammond(Lansing)	1.5 S;RR N	660	37 L1 S6	73,80oct.Obsts sur. fld.
Harlem (Oaklawn)	2.2 WNW;hwy W	610	26 S6	73 oct.Pole line E.
Hinsdale	3 S;hwy SE	710	26 S6	73,80 oct. Rolling ground.
Howell (Blue Island)	3 W; hwy E	600	26 S4	80 oct. Obsts sur fld after 2400.
Joliet.22.LS-GO	5 W;riv W	580	30h R1 L4 S4	80, 91 oct.Flood lgts prior req
Lewis-Lockport(Lockport)	2.2 WNW;hwy E	664	26 S6	80,91 oct. Twr SE.Obsts sur fld.
Prosperi (Tinley Park)	1.7 SSW;hwy W	695	28 S6	80 oct.
Ravenswood (Des Plaines)	2.5 SW;hwy E	650	17 S6	80 oct. No sto.
(P) Rubinkam (Harvey)	2.5 SW;hwy N	615	47 L1 S5	73,80,91 oct.Use W part only.
St. Charles (NC)	3.5 E;RR E,S	760	18h	Pole line N.
Sky Haven(Bensenville)	1.5SE;bet RR,rd	650	22 S1	73,80oct. Use strips only.
Stinson (La Grange)	2 SE;hwy SE	644	25 S6	80,91 oct.Pole line S,W.
(P) Washington Park(Homewood)	1.5 SE;hwy E	625	30 S6	80,91 oct.Allway area.
Wood Dale (Glenview)	10.5 SW	711	30 S5	80 oct.
York Township(Lombard)	2 SSW;hwy N	726	20 S6	80 oct.Use strips.Pole line N,E.

INDIANA

Gamble (Hobart)	1.8 NNW;hwy S	650	30 S4	80 oct. Obsts sur fld.
Gary	6 S;hwy W	610	26h S6	73,80 oct.Trees N,E,S.
★ McCool Int,3,CG-LG	2 SW;hwy S	654	24 R1 L3	
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,S,W.
Urschell(Valparaiso)	1.7 NNE;hwy E	766	26 S2	80 oct.Pole line N.

OHIO

Bedford	2 NE;hwy W	1060	17 S2	73 oct.
Brooklyn (Cleveland)	5.5 SW;RR S	780	26 S2	73 oct.
Chagrin Falls	3 E;hwy SW	1220	23 S4	80 oct. Pole line N.
Chagrin Harb.(Willoughby)	2.5 NNW	620	22 S6	80 oct. Pole line W.
Chardon	2.8 S	1230	22 S1	80 oct. Pole lines sur fld.
(A) CLEVELAND	8.5 SW;riv W	785	60h R3 L6 S6	73,80,91,100oct.JP-1.FEE. ARPT. OF ENTRY
Elyria	1.6 SSW;RR NW	745	30 S2	80 oct. Poles SE.
Euclid Ave.(Willoughby)	1.5 WSW;RR N	640	26 S6	80 oct.Poleline S,hi-line N.
Lorain	2.1 SW;RR N	610	31 S1	80 oct.Pole line NE,SE.
Lorain Skyport(Lorain)	2.8 W;lake NW	610	30 S1	80 oct.Pole line S,SE. Rnwy data unver.
Lost Nation (Willoughby)	3 N;lake NW	626	28 S6	80,91 oct.Obsts sur fld.
Mather (Cleveland)	5 SW;RR S	740	19 S2	80 oct.
Mid City (Hudson)	2 S;RR S	1080	31 S4	80 oct.Poles W,NW.
Ortner (Wakeman)	4 NNE;RR S		26 S1	73 oct.Data not verified.
Sky Haven (Northfield)	2.5 SSE;RR NE	1040	25 S4	73,80oct.No sto.Pwr line W,S.
Solon	1.1 SSE;RR NE	1034	24 S6	73,80 oct.Pole line SE,W.
★ Vermilion Int, 28,CG-LG	3.7 SW;RR SE	610	24 L3	
Ward (Bedford)	1.5 S;RR E	980	20 S4	80 oct.No storage.
Willoughby	1.2 E;RR NW	700	22 S6	80 oct. Pole line sur fld.
Breckling(Cleveland)(NC)	1 E	573	30 S4	80 oct.No sto.Buoys,ramp,boat. Unverified.

VIRGINIA

(N) Fentress NAAS (N)	2.5 ESE;hwy N	16	25h R1		INACTIVE.
(P) Franklin	1.7 NE	38	30h		
Garner's (Windsor)	4.8 NNE;hwy W	80	25 S2		80 oct.
Glen Rock (Norfolk)(NC)	4.5 E;RR S	18	24		Twrs,pole line SW.
(A) Langley Field (A)	3 N Hampton	10	70h R2 L5 S6		73,91,100 oct.JP-1
(N) Monogram NAAS (Drivers)	2.8 W;riv W	21	45 R1		INACTIVE. (N)
NORFOLK	5 ENE;RR SE	22	50h R2 L5		
(N) " NAS (Chambers)(N)	7 N;rd N	13	26h		CLOSED. Use East Field.
(N) " NAS (East Field)(N)	6 N;RR SW	15	43h R2 L5 S6		91,100 oct.NATS,NAFC.
(N) Oceana NAAS (N)	1 SW;RR N	20	60h R1 L5 S4		91,100 oct.No bcn.CLOSED.
Peninsula(Hampton)	2 WSW;RR N	12	26 S4		80 oct.
Pungo	0.8 NE	15	25h		
South Norfolk (Norfolk)	6 SSE		36 S4		Fuel.No sto.Data unverified.
(P) Suffolk	3.8 SSW;RR E	66	50h		
Waverly	2.5 NW;RR SW	115	17 S2		80 oct.Trees,brush sur fld.
Virginia Beach	4.5W;RR,hwy N	15	42 S4		80,91 oct.Pole line N.Data unver.
(A) ±Langley (A)(NC)	3 N Hampton	5	105 S2		Fuel.Dock;Closed ice period.
(N) Norfolk NAS (N)(NC)	7N	S.L.	54 L1 S6		87,91,100 oct.Ramps.

RADIO

ILLINOIS

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JERSEYVILLE FM	(-)	FM, 355°, 71	St. Louis, Mo.
SCOTT (Belleville) (Army)	263 (DCD)	SBMRAFZ-DT	(4)
Scott Field	396	CA; 49°, 1.8	(4)
MISSOURI			
LAMBERT-ST. LOUIS ARPT. (St. Louis)	278 (126.18) (142.74)	AC (ILS)	(4); 131.9,126.18,142.74
ST. LOUIS(Lambert-St.Louis Airport)	209 (LS)	SBRAZ-DTX,256°, 2.2	(4)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE	219 (L)	FMK; 69°, 7.8	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
OREGON			
PORTLAND	332 (PD)	SBRAZ-DT	(4)
Portland AAB	278 (126.18) (118.3)	AC; 171°, 3.1	(4);142.74,131.9,118.3,126.18
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
WILLAMETTE FM	(. . - -)	FM, 76°, 20.6	Portland
TEXAS			
ALAMO (San Antonio) (San Antonio Airport)	344(JR)(116.1)	BMLZ-VDT	(4); 116.1
BROOKS FIELD (San Antonio)	396 (126.18)	CA	(3); 126.18
KELLY FIELD (San Antonio)	219 (126.18)	CA	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
Randolph Field	272 (126.18)	CA; 322°, 2.04	(3); 126.18
SAN ANTONIO (Kelly Field)	254(ZN)(116.1)	SBRAZ-VD, 107°, 1.8	(4); 116.1
San Antonio Arpt.(Alamo Fld)	278 (126.18)	C	(4); 118.5,131.9,126.18
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo
WASHINGTON			
HOBART FM	(--)	FM, 88°, 15	Seattle
LAKEVIEW FM	(- - -)	FM, 175°, 25.5	Seattle
KING CO. AIRPORT (Seattle)	278(126.18) (118.3)	AC	(4); 131.9,140.1, 126.18,118.3
McCHORD (Tacoma)(Army)	272 (DTA)	BMRL	
McChord Field	396 (126.18)	CA (ILS);260°,1.7	(3); 116.1, 126.18
SEATTLE (King Co. Airport)	260(SA)(116.1)	SBRAZ-VDTX,296°,3.3	(4);116.1
Seattle NAS	230 (142.74)	CN	(3); 142.74 (8-sunset) (GCA)
WASHOUGAL FM	(-)	FM, 63°, 17.5	Portland, Oregon
WOODLAND FM	(- - - -)	FM, 331°, 23	Portland, Oregon

– ST. LOUIS AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LAMBERT-ST. LOUIS, MO.	110.3		238° Mag.	IM ·····(.06)	MM	OM --(4.50)	
					MMK 201 ···(.60)	OMK	
– SEATTLE AREA –							
[redacted] WASHINGTON	109.9	333.8	337° Mag.	IM (.26)	MM ·····(.85)	OM --(4.44)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5, kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Dundlach (Belleville)	1.8 E	514	23	Obsts surround fld.
Lakeside (E. St. Louis)	7 NNE; lake W	420	32 S6	73 oct.
Parks (E. St. Louis)	4.2 SW; RR SE	410	26 L1	25-75' obst's on fld.
Parks Metropolitan (East St. Louis)	3.5 SSW; RR W	420	17h S6	80, 91 oct.
(A) Scott (Belleville)(A)	7.5 ENE; RR S	444	55h R2 L5 S5	73, 91, 100 oct. JP-1.
Wadlow (Alton)	3.5 NNW	600	25 S4	80 oct.
MISSOURI				
Black Walnut (St.Louis)	18 NNW	442	20	
Creve Coeur (St. Louis)	14.5 WNW;lake E	445	37	
Ellisville	0.4 NE; hwy S	750	16 S2	80 oct.
Fratz (St. Charles)	1.1 ESE; RR S	445	30 S6	80, 91 oct.
(A,N) LAMBERT-ST.LOUIS(St.Louis)	10.8 WNW,hwy N.W	552	60h R3 L6 S6	80-100 oct. Rdo req. INACTIVE.
Machens (NC)	1 NNW	450	41	
Marmaec (Valley Park)	1.5 NNE; riv N	440	30 S2	80 oct. Pole line S.
(N) Meybeiser GLP (St.Louis)(N)	22 NNW; riv N	439	20h	
St. Charles	5.5 NNW; RR N	470	29 S6	80 oct. Poles E, N, NE, SE
Sterling (St. Louis)	14 SSW; RR E	615	26 S4	80, 91 oct. Obsts surround fld.
Sylvan Beach (Fenton)	2 NNW	442	42 S2	80, 91 oct. Pole line N.
Weiss (Kirkwood)	4 SW	430	15 S4	80 oct. Pole line NE, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 14) (NC)-Not charted.

OREGON

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Aurora Flight Strip	1.6 NNW; hwy W	196	41h	
Barrett-Schuler (Woodburn)	2.8 WNW; RR E	200	29 S1	73 oct. Pwr line NNE.
Bernard (Beaverton)	1.4 NNW; RR S	188	18 S6	73, 80 oct.
Canby	0.5 NNW	150	17 S1	80 oct. Pwr line NE, SW.
Columbia Co. (Scappoose)	1.2 NE; RR W	55	40h S4	80 oct. Pole line N, NW.
Dwyer Landing Fld.(Portland	7 SE; RR NW	200	16	Obsts ENE, WSW. Ditch ground strip.
Green Acres (Mulino)	1.9 SSW; RR W	269	18 S4	80 oct. No sto. Obst SSE.
Hillsboro	2.4 ENE; RR S	200	41h L5 S6	73,80 oct. No sto.
(A,N) PORTLAND AAB (A)	5 NNE; riv N	19	55h R2 L5 S6	73, 91, 100 oct. JP-1.
R. G. K. (Gresham)	2.2 W; RR S	285	26 S5	73 oct. No sto. Pwr line E, ENE.
Sky Park (Oregon City) (NC)	2.7 SE; RR NW	440	27 S4	80 oct. No sto. Pole line S.
Sportsmen Arpk. (Newberg)	1 E; riv SW;RR N	173	23 S2	Ltd 80 oct. Trees NNE.
Troh's Skyport (Portland)	6 E; riv N	250	26 S6	80, 91 oct.
Troutdale	1 NW; RR S	34	46h L3 S6	73, 80 oct.
TEXAS				
ALAMO (San Antonio)	7.8 N;RR SE	783	55h R2 L5 S2	73,80 oct.
Bexar Co. (San Antonio)	7.1 SSW; rd W	640	32 S6	80, 91 oct. Poles,trees N,NW,W,S.
(A) Brooks (San Antonio)(A)	6.5 SSE; RR W	594	52h R1 L5 S6	73,91,100 oct.
Craigg (Sayers)	1.8 W; hwy,RR N	650	41 S1	80 oct.
Davis (San Antonio)	6.7 N; RR SE	780	16 S1	80 oct.
Hurt (San Antonio)	6.5 WNW; hwy W	680	36 S6	80 oct.
(A) Kelly (San Antonio)(A)	6.8 SW; RR NE	676	75h R2 L5 S6	62,73,91,100 oct.JP-1.POREIGN CLEAR. STA.
Kuehler (New Braunfels)	1.7 SE; riv NW	720	18	Pole line NW. Cattle.
Lake (San Antonio)	10 S; RR E	700	23 S2	73 oct.
Leon Valley (San Antonio)	8.6 WNW;hwy E	710	40 S6	80,91 oct.Pwr line N.W. NW.
(A) Martindale(San Antonio)(A)	7.1 E; RR S	660	30h	
Mission (San Antonio)	4.5 S; hwy E	567	23 S6	80 oct. No sto. Pole line NNE.
(A) Randolph (San Antonio)(A)	15.8 ENE;RR NW	752	70h R2 L5 S6	91,100 oct. No sto.
Stinson (San Antonio)	6.2 SSE; RR E	567	49h	
Yates (San Antonio)	13.7 N; hwy W	968	33	
(A) Zuehl No. 6 (A)	0.8 NE; hwy NW	610	30h	
WASHINGTON				
Barrys Sky Harbor (Tacoma)	2.3 ENE; riv SW	4	21 S2	Ltd 80 oct. Pole line E.
Boeing-Renton (Renton)	0.9 NW;lake N	32	54h L5	RESTRICTED, All lgts prior req.
Enumclaw	1.5 WSW; hwy E	740	20 S2	Ltd 80 oct. Pwr line E.
Groves (Camas)	2.8 N;hwy E	350	27 S1	Ltd 80 oct. Lake SW.
Kent	1.5 SSW; riv N	30	30 S6	80 oct.
(A) KING CO.-BOEING (Seattle)	6 S; riv SW	23	75h R2 L5 S6	73-100 oct.No sto. ARPT OF ENTRY. POREIGN CLEARING STATION.
Kitsap Co. (Bremerton)	8 SW; hwy NW	482	42h L5 S6	80,91 oct.No sto. Lgts prior req.
Lakewood (Tacoma)	7.5 SSW;RR E	243	22 S1	80 oct. Trees ENE, WSW.
(A) McChord (Tacoma)(A)	7 SSW;lake SE	285	59h R3 L5 S6	73,91,100 oct.JP-1. POREIGN CLEARING STN.
Mercer (Bellvue)	4.1 ESE;lake E	345	20 S4	80 oct. Tie-down sto.
Kent	1.5 SSW; riv N	30	30 S6	80 oct.
(A) KING CO.-BOEING (Seattle)	6 S; riv SW	23	75h R2 L5 S6	73-100 oct.No sto. ARPT OF ENTRY. POREIGN CLEARING STATION.
Kitsap Co. (Bremerton)	8 SW; hwy NW	482	42h L5 S6	80,91 oct.No sto. Lgts prior req.
Lakewood (Tacoma)	7.5 SSW;RR E	243	22 S1	80 oct. Trees ENE, WSW.
(A) McChord (Tacoma)(A)	7 SSW;lake SE	285	59h R3 L5 S6	73,91,100 oct.JP-1. POREIGN CLEARING STN.
Mercer (Bellvue)	4.1 ESE;lake E	345	20 S4	80 oct. Tie-down sto.
Northern Tacoma (Puyallup)	1.3 N; RR N,S	20	19 S6	80 oct. No sto.
Puyallup	6 S; hwy W	520	45 S6	80,91 oct.Rnwy data unverified.
R. C. Sugg (Orchards)	3.6 SSE;hwy S	310	26 S2	73 oct. 6.8 E Vancouver.
Red Wing (Orchards)	1 NE;hwy S	220	13 S1	Ltd 73 oct. 6.5 ENE Vancouver.
(N) Seattle NAS (N)	6.5 NNE;lake E	37	51h R1 L5 S6	91,100 oct.
(N) Seattle-Tacoma (Seattle)	10.5 S;RR E	405	61h	Trees and hills surround fld.
Silverdale	1.9 NW;rd E,S	350	19	Poles S. Emergency only.
Sky Ranch (Walla Walla)	1.3 SW		32	Pwr line W. Data not verified.
South Port Orchard (Port Orchard)	7.5 SSW;lake S	350	19 S4	80 oct. No sto. Trees N, S.
Spanaway Acft Co.(Spanaway)	1.2 SSE;RR S	375	25 S1	80 oct. Pole line S.
Tacoma	4.4 W;hwy SE	369	22 S4	80, 91 oct.
Tacoma Airpark (Tacoma)	2.9 WSW;RR E	250	20 S1	Ltd 80 oct. Sharp drop W edge fld.
Vancouver	1 SE	26	19 S6	Ltd 80 oct. No sto.
Forrest Grove (Spanaway)	1.8 E;RR E	340	22 S6	80 oct.
Portland Birdsdale(Portland)	8.5 E;RR N	220	23 S6	80,91 oct.
Vancouver,mun.	6.7 ENE;hwy W	240	26 S1	80 oct.
(N)(C)Bremerton NAS (N)(NC)	0.5 S	S.L.	Unl S4	Ramp;buoys;haul-out.
(N)(C)Seattle NAS (N)(NC)	6 NNE	36	300 L S6	87-100 oct. Ramps;all facs.

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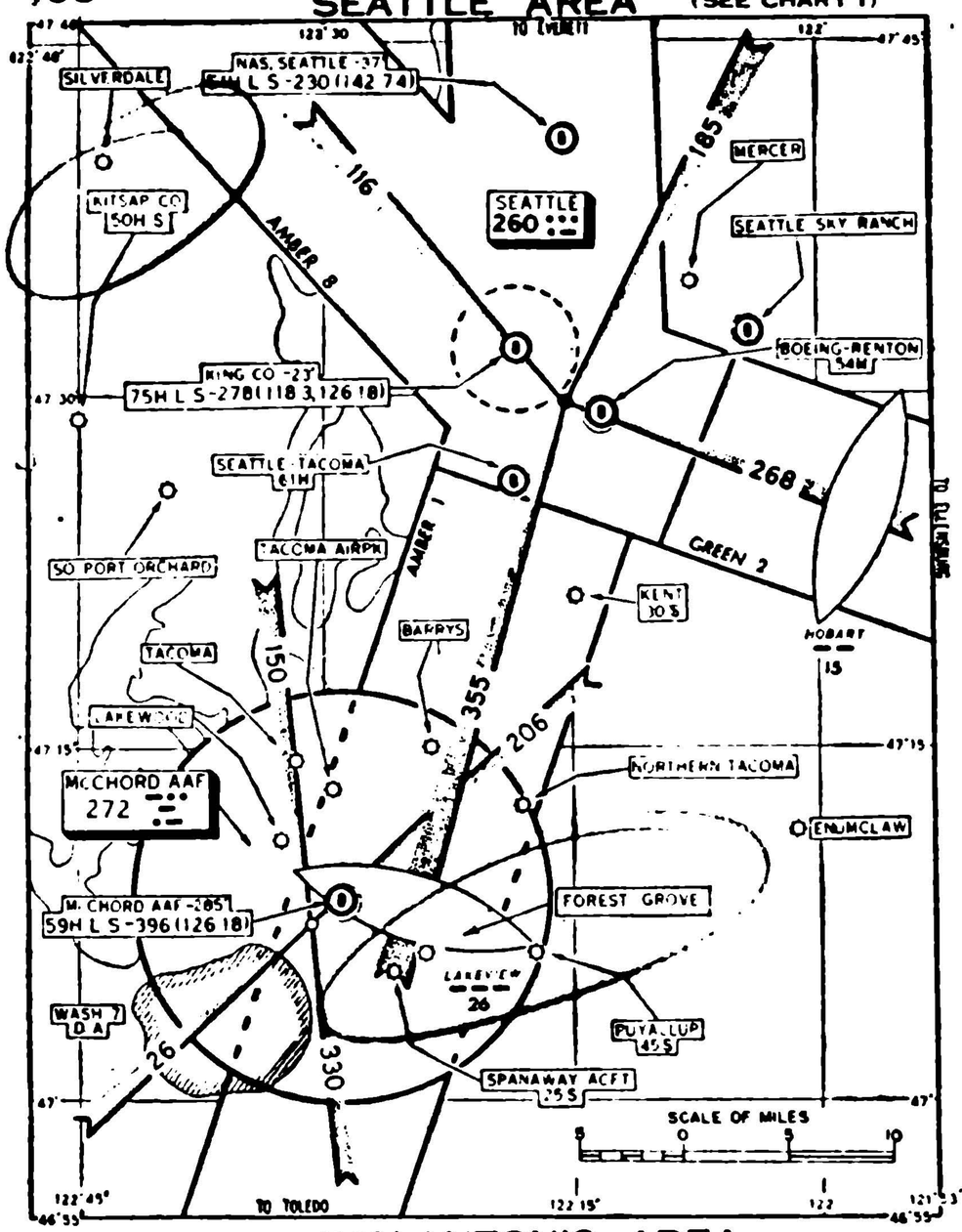
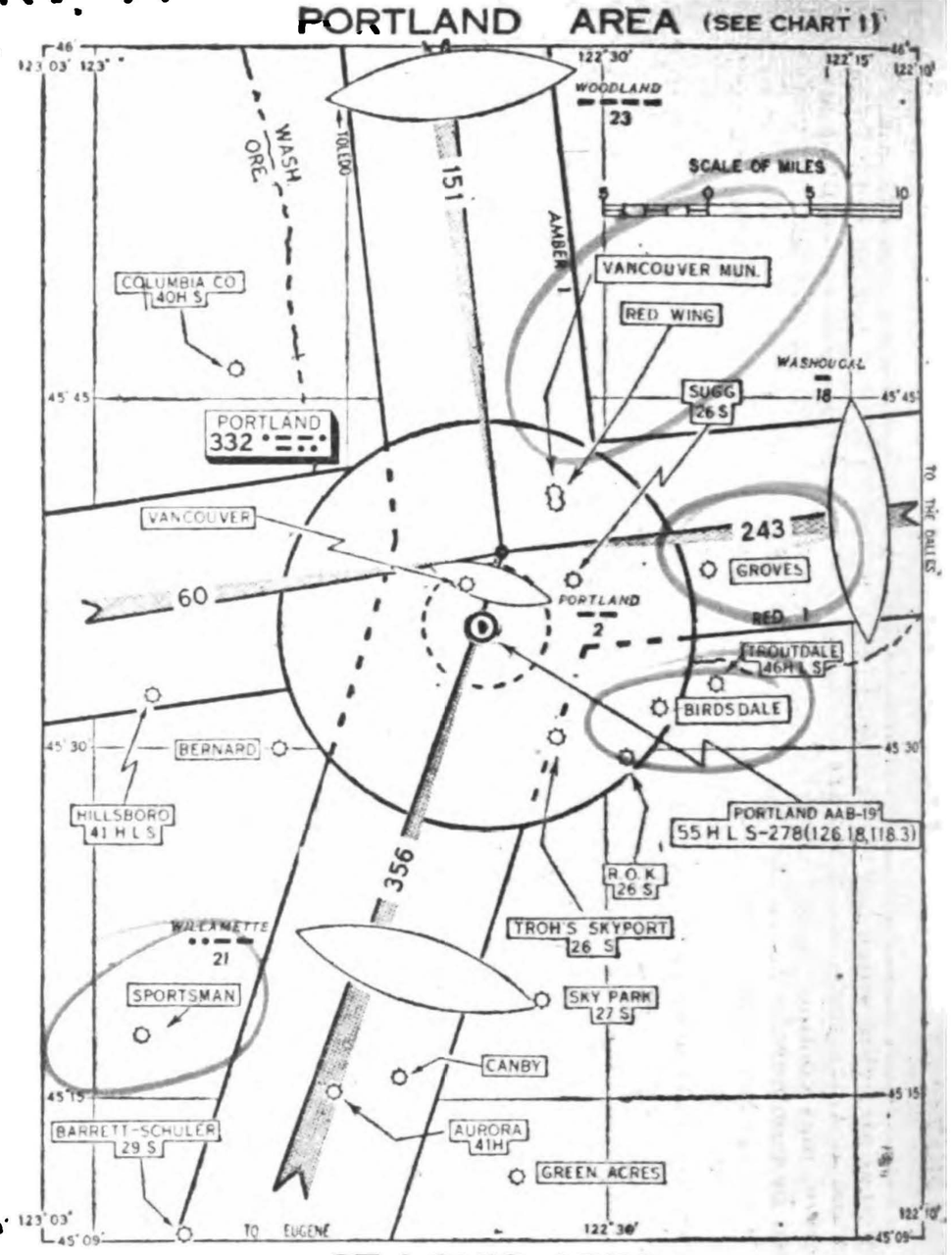
CHART 71

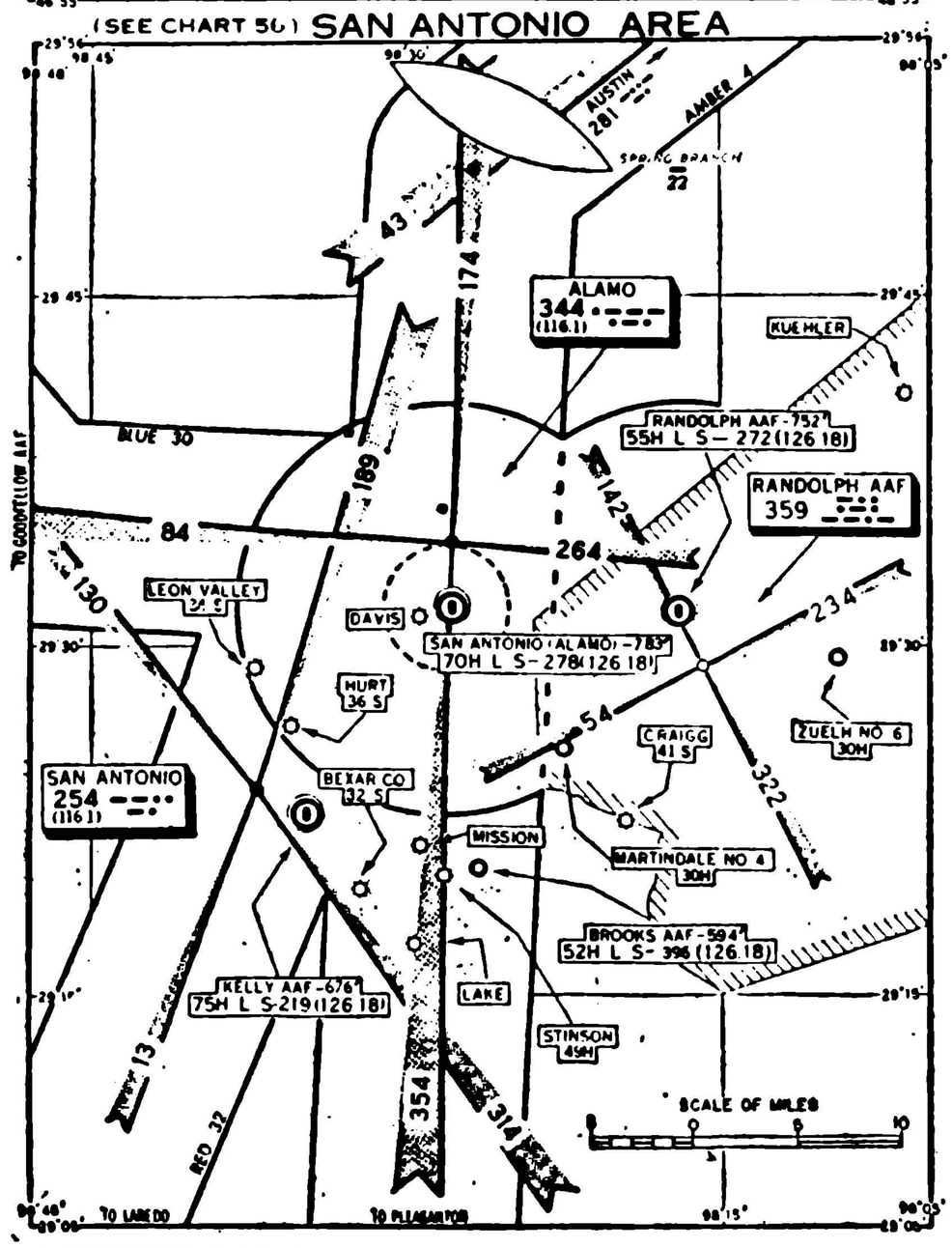
SEATTLE AREA (SEE CHART 1)



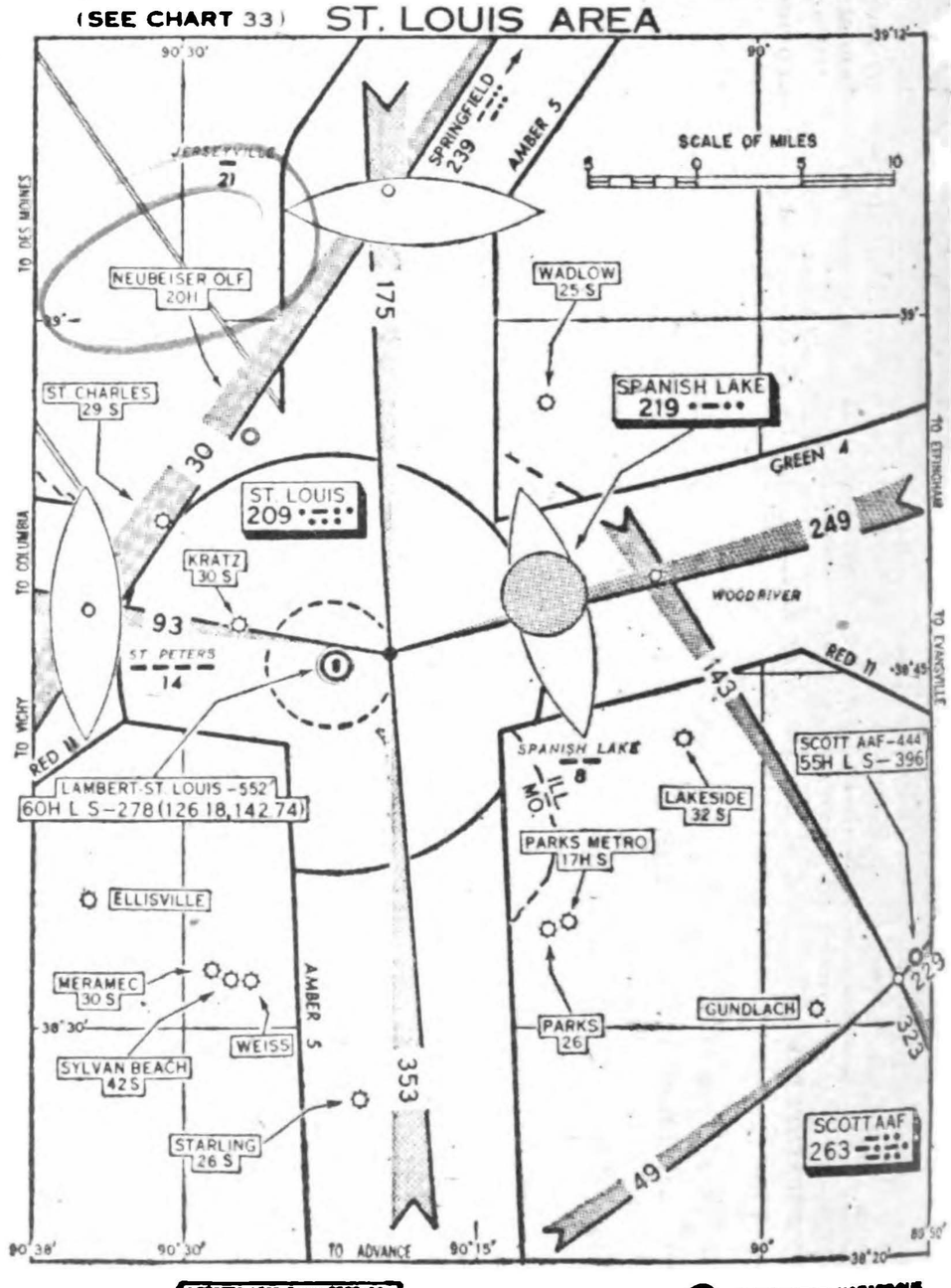
PORTLAND AREA (SEE CHART 1)



SAN ANTONIO AREA (SEE CHART 56)



ST. LOUIS AREA (SEE CHART 33)



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" BOUNDARIES.

AIRPORTS LESS THAN 2500 FT. OR LOCATED, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SYM.

Ⓔ: EXTREMELY HAZARDOUS

Ⓤ: USABLE WITH CAUTION

NOTICES TO AIRMEN

INTRODUCTION

PROCEDURAL STATEMENT: Because all new facilities are immediately spotted on the charts, items covering such new facilities are cited only once in the Notices to Airmen section. Citations covering new or revised radio data are prefixed by one large star "★". Citations covering new or revised airport, danger area, or miscellaneous data are prefixed by two small asterisks "**"

All temporary conditions (field soft, runway under construction, range course out of alignment, etc.) are cited in full until they are no longer in effect. When a citation carries a permanent item and a temporary item, the permanent item is underlined. Parenthetical date at end of item indicates time item was reported.

To conform to chart practice, all facility data are listed in the Notices to Airmen section alphabetically by states and by facility name. Thus, an airport will be found listed alphabetically under its own name rather than under its locale's name. If the airport or radio facility name is other than that of its geographical location, the location is shown in parenthesis after the facility name.

CIVIL FACILITY DATA: Please advise immediately the Office of Aviation Information, Attention A-250, C.A.A. Department of Commerce, Washington 25, D.C., whenever temporary conditions covering civilian airports or navigational aids begin or terminate, data revisions are effected, or flight hazards are erected or removed.

ARMY DATA: Advice covering Air Forces Fields or Air Forces Operations on civilian fields, or AAF Radio Facilities, and Danger or Caution Area activation, as well as requests for approval for the closing of any army airfields to transient military aircraft for a period in excess of 10 days should be directed to: COMMANDING GENERAL, AIR TRANSPORT COMMAND, WASHINGTON 25, D.C. ATTENTION: HEADQUARTERS FLIGHT SERVICES, FLIGHT OPERATIONS. Information to be published will be coordinated and submitted to the C.A.A.

NAVY FACILITY DATA: In accordance with Hydrographic Office Memorandum for Aviators No. 9, July 29, 1946, Hydrographic Office information concerning naval and marine corps air stations and facilities, including changes in field facilities, operation rules, airground communications facilities, instrument approach procedures and navigational aids, should be directed to: The Division of Air Navigation, Hydrographic Office, Washington 25, D.C., for transmittal to the C.A.A. In accordance with Aviation Circular Letter No. 96-46 of June 13, 1946, approval for the closing of any naval or marine corps air station or facility to transient military aircraft for a period in excess of 10 days must be obtained from the Chief of Naval Operations. Also approval is to be obtained from the Chief of Naval Operations before relocation or modification of any aid to air navigation, such as reorientation of radio ranges.

AIRSPACE SUBCOMMITTEE REPLACES I.A.T.C.B.: Effective June 1, 1946, the Air Coordinating Committee Airspace Subcommittee was substituted for the Interdepartmental Air Traffic Control Board. The function of the Airspace Subcommittee is to effect coordination to insure, insofar as possible and practicable, that conflicts in the use of the navigable air space are avoided or reduced and that unnecessary interference with the operation of aviation facilities is eliminated.

SPECIAL NOTICES

POLICY ON ARMY USE OF TEMPORARILY INACTIVE ARMY AIR FIELDS: (1) Municipal airfields which have been used jointly by the Army Air Forces and civil interests and at which Army facilities are temporarily inactive but the civil facilities are still active, may continue to be used by military aircraft. No servicing other than that provided by commercial concerns will be available. Such airfields will be identified herein by the following notice: "Army temp inactive - civil facs." (2) Temporarily inactive Army airfields used exclusively by the Army Air Forces (either owned or leased) or municipal airfields used jointly by the Army Air Forces with civil interests at which both Army and civil facilities are inactive will be available to military aircraft on official business only under written orders of an air force, command or higher authority. Individual orders for each flight rather than blanket authority is desired. Such airfields will be identified herein by the following notice: "Temp inactive - no facs. (See Special Notice re use)". Operation of Air Transport Command hospital evacuation aircraft will not be limited in any respect by above policy. Above policy statement is not to be construed as countermanding any AAF regulations or letters governing command use of municipal airports or Army airfields.

"OFFICIAL BUSINESS" AS APPLIED TO AAF: In view of the numerous requests for clarification of the term "official business" as used in connection with restrictions on use of Army airfields and in connection with restrictions on use of civil fields by military aircraft, the following interpretation is furnished for guidance of AAF clearance and pilot personnel: The term "official business", within the meaning of AAF Regulation 85-2, is interpreted as the necessity for personnel aboard an aircraft to contact personnel, units or organizations at or near the airfield selected for landing for the purpose of conducting transactions in the service of, and in the interest of, the United States Government. This does not include the use of any airfield by transient aircraft for the purpose of obtaining aircraft clearance, service, or other items attendant with itinerant operations. Cross country flights for the purpose of maintaining flying proficiency are not considered to be official business within the meaning of this regulation.

AIRPORTS AVAILABLE FOR USE BY MILITARY AIRCRAFT: The attention of Army clearance personnel and of Army pilots is invited to provisions of Section III of Army Air Forces Regulation 85-2, which states in part: "The use by Army aircraft of private airports which have not been leased, purchased, or otherwise acquired by the Federal Government is unauthorized except in case of emergency or for official visits authorized by an Air Force or Command". This Regulation further states "AAF transient itinerant aircraft may utilize: (a) Government or DLA (development landing area) type airports, subject only to such restrictions as may be listed from time to time in Weekly Notice to Airmen . . . (b) Private airports when legal permits for their limited use are procured by and filed with the real estate agency of the War Department . . ." Reference to the AAF Installations Directory" and to the Directory of Airports Section as well as the Notices to Airmen section of this publication should be made in case of doubt as to the proper use of fields. In the Directory of Airports Section, all AAF installations are designated by the prefix (A), Navy by (N), and DLA Field by (P):

RESTRICTION ON C-45, AT-7, AT-11, F-2, AND CQ-3 ARMY AIRCRAFT: Upon compliance with following items and notation in Form 1B of each aircraft certifying completion, above types of aircraft may be cleared for IFR flights: (a) Replace all gyro units which on flight check spill either gyro at less than 45°; (b) Compliance with T.O. 01-90C-9; (c) Com-

✓ Indicates new or revised Special Notices.

pliance with applicable modifications on auto-pilots prescribed by T.O.'s 01-90-50, 01-90-54, 01-90-52, 01-90-56; (d) Modify receiver dials so that index is turned 90° toward pilot as described in item 7, page 6, T.O. 00-65-14; (e) Periodic inspections prescribed in T.O. 05-45BA-2 for Jack and Heintz instruments and T.O. 05-45AB-2 for sperry instruments.

RESTRICTIONS ON AAF HELICOPTERS: YR-5A, R-5A, YR-5D, R-5D, and YR-5E helicopters are grounded and will not be flown.

RESTRICTION ON FLIGHT OF AAF AIRCRAFT IN NEW YORK CITY AREA: Effective immediately no AAF acft except those on scheduled transport operations will be cleared to New York City Area unless point of first intended landing is Mitchel Field, Hempstead, L.I., N.Y. When instrument conditions prevail in New York City Area, no Army aircraft except those on scheduled transport operations will land at or take off from other than Mitchel Field. When contact conditions prevail in New York City Area, acft which have been cleared for Mitchel Field but which desire to land at other authorized fields in New York City Area will, when approaching New York City Area, obtain clearance from New York Flight Service through normal communication means. For purposes of these instructions, New York City Area is defined as a circle 5 0 miles in diameter centered on southern tip of Manhattan Island. Contact weather New York Area will be considered to be 2000' ceiling 3 miles visibility both day and night. When cloud conditions exist below 2000' flight conditions will be considered IFR.

MILITARY AND NAVAL LANDINGS IN NEWFOUNDLAND: All military and naval aircraft landing in Newfoundland should use Harmon Field at Stephenville or naval operating base at Argentia. Gander has very limited military facilities and is reserved for commercial and weather diverted military aircraft.

CIVILIAN USAGE OF MILITARY FIELDS: Army and Navy fields are open to civilian fliers only in emergency or with prior permission of the commanding officers thereof.

STANDARD NAVY GROUND CONTROL APPROACH FREQUENCY ASSIGNMENTS: Allocations of frequencies, both HF and VHF, for Navy GCA use have been coordinated with the AAF. Universal frequencies allocated primarily for Navy GCA operational use are as follows: HF Communications - 3475 kcs., 4890 kcs.; 6640 kcs; VHF Communications - 134.64 mcs., 142.02 mcs., 143.64 mcs. As a safety precaution, Navy GCA Units will also be prepared to control aircraft on 140.58 mcs., the Navy emergency frequency. To provide a means whereby Navy aircraft may receive assistance from Army GCA Units and vice-versa, the following agreement will govern: (a) Army GCA Units will at all times be prepared to control Navy Aircraft on 140.58 mcs. (b) Navy GCA Units will at all times be prepared to control AAF aircraft on 131.40 mcs. It is the responsibility of the pilot desiring GCA assistance to establish communication with the appropriate control tower for preliminary approach instructions. The pilot will then be instructed as to the proper frequency for contacting the GCA Unit. Navy GCA Operational Units are located as follows: Whidbey Island NAS, Wash.; Charlestown NAAS, R.I.; Oakland NAS, Calif.; Camp Kearney NAAS, Calif.; Seattle NAS, Wash.; Olathe NAS. Kans.; Oceana NAAS, Va.; Patuxent River NAS, Md.

LORAN DATA: Loran is a long range electronic navigational aid utilizing pulse techniques. It provides accurate fixes for the user within 1 per cent of his distance from the stations. Loran service is provided continuously twenty-four hours a day. Loran operates on fixed frequencies of 1750, 1850, and 1950 kilocycles. To use Loran it is required that a Loran receiver-indicator be employed and that suitable charts and tables be available to the navigator.

The following is a list of Coast Guard and Canadian Loran rates presently in operation: Atlantic: 1L0, 1L1, 1L2, 1L3, 1L4, 1L7, 1H1, 1H2; West Coast United States: 2H4, 2H5, 2H2; Aleutian Area: 1L0, 1L1, 1L2; Central and Western Pacific: 2L0, 2L1, 2L2, 2L3, 4H2, 4H3, 4H4, 4H5, 1L6, 1L7. Information regarding Loran coverage, rates, frequency, etc., throughout the world is contained in the Catalog of Loran charts and Service Areas, Hydrographic Office Publication No. 1-L. This information may be obtained from Hydrographic Office agents located in various cities in the United States or from the Hydrographic Office, Washington 25, D.C., at a cost of 30¢ Complete Loran tables are contained in Hydrographic Office Publication Series No. 221, which can be obtained from the same sources at a cost of $3.00 per volume. Loran charts may be similarly obtained. Hydrographic Office Circular No. 3 and the Hydrographic Bulletin (issued weekly) give a list of these agents mentioned above and may be obtained without charge from the Hydrographic Office or any Branch Hydrographic Office. Changes in Loran service are broadcast in Hydrolants and Hydropacs, and as local broadcasts, the stations, frequencies, and schedules being listed in the first Hydrographic Bulletin issued each month. Inquiries of an operation nature regarding Loran may be addressed to the Commandant (OAN), U.S. Coast Guard, 1300 E Street, N.W., Washington, D.C.

FOREIGN ENTRY PROCEDURES: Every United States citizen traveling abroad, except to Canada, Mexico, Alaska, Hawaii, Puerto Rico, and the Virgin Islands, requires a passport. The following procedures are necessary in order to gain entry, with intention to land, in Canada and Mexico:

Canada: (1) All departures from the United States must be made from Airports of Entry. (These are identified in the remarks column of the Airport Directory data in the AIRMAN'S GUIDE): (2) If landing is to be made at a designated Canadian Airport of Entry, notice should be telephoned or telegraphed to the collector of customs at the predetermined point of entry when clearing U.S. Customs. (3) If entry is planned at a field other than a customs airport, arrangements should be made with the Secretary, Customs Division, Department of National Revenue, Ottawa, at least 10 days in advance. (4) Pilots and aircraft must be properly certificated and general observance of Canadian air regulations is required. (5) The following is a list of all Canadian customs Airports of Entry: Whitehorse, Y.T.; Vancouver, B.C.; Calgary, Alta.; Lethbridge, Alta.; Moose Jaw, Sask.; Regina, Sask.; Winnipeg, Man.; Ottawa, Ont.; Toronto, Ont. (Island or Malton); Hamilton, Ont.; Windsor, Ont.; Montreal, P.Q. (Dorval); Fredericton, N.B.; St. John, N.B.

Mexico: Applications for permits may be filed with the nearest Mexican consul who charges a fee of $4.00, or directly with the Department of Civil Aeronautics, Mexico City, Mexico, without charge. The permit will be sent directly to the Airport of Entry named in the application, unless the applicant specifically requests that it be sent to his home address. If entry is to be made from Brownsville, Tex., permission may be received from Representative of Mexican Ministry of Communication and Public Works, Department of Civil Aeronautics, Rio Grande Valley International Airport, Brownsville, Texas.

U. S. CIVIL AIRCRAFT CLEARANCE FOR FOREIGN COUNTRIES: Although the CAA does not require special permission for the flight of U.S. Aircraft abroad or for the delivery of aircraft exported to foreign countries all aircraft must be registered and certificates as to airworthiness and pilots must hold appropriate U.S. pilot certificates. The single exception to the above is: Special permission must be obtained from the Director, Aircraft and Components Service, CAA, Washington, D.C., for any flight into or through the Panama Canal Zone. In general, permission must be secured from foreign countries for the conduct of scheduled or non-scheduled or operations from the U.S. Specific information may be secured from the Aviation Division, State Department. All air carriers must secure operating certificates from the CAA and their operations must be in conformance with these certificates. Although there are no Federal taxes on the exportation of aircraft from the U.S., it is mandatory that a license for such export be obtained from the State Department.

CANADIAN FLIGHT INFORMATION: Arrangements are being made by the Canadian Government to supply all U.S. Airports of Entry with flight information covering all Canadian airports and navigational facilities. In like manner, the "Airman's Guide" is being made available to Canadian pilots at Canadian Airports of Entry.

CANADIAN REGULATIONS FOR CFR FLIGHTS: (a) It is compulsory for pilots desiring to conduct a CFR flight to file a flight plan unless the flight will be made within a radius of 25 miles of the point of departure. (b) Arrival messages must be filed by pilot on all such CFR flights.

CANADIAN INSTRUMENT FLIGHT RULE FLIGHT: Pilots are cautioned to conform to the requirements of CAR 60.2 where flight is proposed to be conducted under Instrument Flight Rules from the United States into air traffic control areas designated in Canada. Failure to adhere to these regulations may result in detention of pilots concerned by Canadian Authorities.

PANAMA CANAL ZONE FLIGHT INTO: Prior to take-off from Miami, New Orleans, or Brownsville, or other port of embarkation on any aircraft flight into, through, or out of the 200 mile intermediate area blanketing the Canal Zone, commanders of military aircraft will secure a Fighter Command clearance by filing a flight plan. With a view to the safe guarding and protection of their equipment and personnel, operators of all other aircraft should follow the same procedure. Responsibility for this notification of flight plans is delegated to the clearance authority at the point of departure.

SAN JUAN, P. R., PRE FLIGHT CLEARANCES: The Isla Grande Airport at San Juan, Puerto Rico, is a part of the U.S. Naval Air Station, San Juan. Commercial air carriers may not operate at this field without receiving specific authorization from the Chief of Naval Operations, Washington, D.C. The Commanding Officer, NAS, San Juan, may grant permission for one or two isolated landings. In any case proper authority must be obtained prior to landing at San Juan. Privately owned aircraft in a ferry status must obtain permission from the commanding officer before landing at Isla Grande Airport.

PRE FLIGHT SERVICE: Pilots desiring to file flight plans are requested to do so with any CAA Airway Communication Station by personally visiting the station or by telephone. Radio should be used for filing flight plans only as a last resort. Pilots are urged to visit communications station to obtain authentic flight information and assistance in planning their flights. Personnel at these stations are trained to render flight planning assistance. An objective of CAA pre flight service is to encourage pilots to familiarize themselves with flight conditions prior to commencing cross country flight.

TRAFFIC CLEARANCES: In order to prevent delay to aircraft operating in contact flight rule weather conditions and yet ensure adequate separation when and if instrument flight rule weather conditions are encountered, traffic clearances to pilots filing instrument flight rule (IFR) flight plans may amend such flight plans by requiring flight in accordance with contact flight rules (CFR) for all or a portion of the flight. A traffic clearance will specify the approved altitude followed by the abbreviation "CFR". Upon receipt of such clearance, the pilot will be responsible for avoiding other aircraft while operating in CFR weather conditions and for securing an amended clearance at the specified altitude if IFR weather conditions are encountered. For efficient operation, the use of this procedure can only be determined by Air Traffic Control. Pilots, therefore, should not file "altitude/CFR" in any flight plan; "altitude/CFR" is to be used only in a traffic clearance issued by Air Traffic Control.

DANGER AND CAUTION AREAS: A limited number of established Danger and Caution Areas were discontinued on June 1, 1946, in accordance with IATCB Meeting No.711, dated February 6, 1946, and a number of others broken up into smaller areas with redefined boundaries. The areas as shown on the Flight Planning Charts are those in effect today.

AIRPORT APPROACH ZONES AND AIRPORT TRAFFIC ZONES CFR MINIMA: Part 60 specifies that CFR traffic within Airport Traffic Zones or Airport Approach Zones must maintain 500' vertical and 2000' horizontal separation from the clouds unless given traffic clearance by the control tower or control center concerned. Even under such clearance CFR flights must remain clear of clouds. These airport traffic zones and airport approach zones are indicated on the Flight Planning Charts of the Airman's Guide, and all recently revised Coast and Geodetic Survey Aeronautical Charts. In the interest of safety, CFR flights must maintain the 500 foot and 2000 foot minima specified above while in these circular charted zones. (See page 15 of this publication for air traffic control procedures and weather minima).

CANADIAN AIRWAY DESIGNATIONS: Information Circular No. 0/24/45, was amended to include the following: 4.01 Red Airway No. 7. 4.010 From the Cowley, Alta. range station to the intersection of the N leg of Cowley, Alta., and the S leg of Calgary, Alta. From the Calgary, Alta. range station, via the intersection of the E leg of Calgary, Alta., and the NW leg of Medicine Hat, Alta., to Medicine Hat, Alta. range station. 5.7 Blue Airway No. 7. 5.70 From London, Ont. range station, via the SE course of London, Ont., to the intersection of the SE course of London, Ont., and the W course of Clear Creek, Ont. (The Toronto ATC Centre assumed control on August 1, 1946).

AERONAUTICAL CHART AND PUBLICATION CORRECTIONS: (a) Correct Spokane Sectional Aeronautical Chart, dated May 10, 1946, by reversing the inner quadrant designators on the S course of Ephrata, Wash., radio range; Cleveland Sectional Aeronautical Chart, dated June 24, 1946, by showing the correct radio range frequency for Dayton, Ohio, as 245 kcs., instead of 323 kcs.; Boston Sectional Aeronautical Chart, dated July 2, 1946, by showing Hilltop Airport as located in the town of West Buxton, Me., at lat. 43-39-45, long. 70-36-45.

(b) Correct WAC 467, dated February 5, 1946, by showing New Orleans, La. radio range frequency as 338 kcs.; WAC 360, dated April 2, 1946, by showing the correct frequency for Cassoday, Kans., radio range as 239 kcs., instead of 278 kcs.

(c) Correct Salina and Wichita Sectional Aeronautical Charts, both dated March 5, 1946, by showing the correct frequency for Cassoday, Kans., radio range as 239 kcs., instead of 278 kcs.

(d) Correct Altoona, Pa., Instrument Approach Chart, AL-100, dated April 2, 1946, by deleting runway contact lights citation, relocating wind tee to NE corner of runway intersection, and changing elevation to 1495 feet.

(e) Correct Flight Information Manual, Vol. 1, No. 1, dated July 1, 1946, page 4, by correcting under 910 kilocycles, "KAAL", Salt Lake City, Utah, to read: "KALL": page 11, under Utah, Salt Lake City, "KAAL" to read: "KALL" The height of tower for the above station is 278 feet, hours of operation 0600 - 2400.

WEATHER REPORTING SERVICE

Weather Reporting Station	Type of Station		Lat. Long.	Elev.	Effective Date
Everett, Wash.	Hourly	Opened	N47-54 W122-17	598'	Approx. 8-24-46
Philadelphia, Pa. (Northeast Airport)	Supple. Weather	Opened	N45-05 W75-00	106'	
Lewiston, Idaho, Airport	Supple. Weather	To be opened	N46-22 W117-01	1426'	9-1-46
Pullman, Wash., Pullman-Moscow Regional Arpt.	Supple. Weather	To be opened	N46-44 W117-07	2555'	9-1-46
Anacapa Island, Calif.	3 & 6 hourly	Opened	N34-01 W119-22	169'	5-6-46

AIR NAVIGATION AID DATA

All radio facilities except towers are CAA facilities unless otherwise cited. All towers are listed by operating agency. All range bearings are magnetic in-bearings. All fan markers and station location markers operate on 75 mcs. All radio facilities operate continuously unless otherwise specified.

LEGEND

** - New or revised airport, danger area, or miscellaneous data to be inscribed on charts or added to records.

★ - New or revised radio data to be inscribed on charts or added to records.

ALABAMA

ANNISTON AAF-Temp inactive. No facs. (See Special Notice re use).

BIRMINGHAM AIRPORT-Closed to civil acft not equipped with operating rcvr. No landings on sodded areas. Caution ngts or under IFR, plant S of fld has long taxi and parking strips resembling rnwys. No svcg mil acft 2200 to 0600. No maintenance. Tetrahedron uncontrollable. (7-30)

BROOKLEY AAF (MOBILE)-Soft - use rnwys, taxi strips only. Rnwy 14-32 closed (const.) (8-19)

CAMP SIBERT AAF (ATTALIA)-CLOSED TO ALL ACFT.

CENTRE AIRPORT-N-S strip not mntnd. E-W strip rough. Telephone lines E end. (4-9)

CHASTAIN'S AIRPORT (PRICHARD)-E-W strip under const, marked. (7-22)

COLUMBIANA AIRPORT-High grass S 500' N-S strip. NE-SW strip unsafe. (4-9)

COURTLAND AAF-Temp inactive. No facs. (See Special Notice re use).

CRAIG FIELD (SELMA)-RADIO: Army range unreliable. FLD: Twr obst lgts inop. No maintenance or RON facs. No svcg 1600 to 0800. Bndry and N/S rnwy lgts inop. (6-19)

**DANNELLY FLD (MONTGOMERY)- 80, 91 oct. (8-6). NE taxi strip closed (parked acft). (8-12)

DOTHAN AIRPORT-NE/SW, NW/SE rnwy lgts inop. (8-9)

★EVERGREEN-RADIO: VHF voice fac comm at communication stn Aug. 23. Transmits on and gds 116.1 mcs cont. Sta class: MHVT.

GREENVILLE AIRPORT-SITE 24, NEW ORLEANS-ATLANTA-E 400' E/W runway unsafe (high grass). (9-2)

GUNTER FIELD (MONTGOMERY)-RADIO: Army twr temp suspended. (5-16) FLD: Temp inactive. No facs. (See Special Notice re use). Use rnwys only. Sod areas adj rnwys and taxi strips soft.

HARTSELLE AIRPORT-N 900 feet at W side emerg. landings, bal fld unusable. (3-30)

ALABAMA-Continued

MAXWELL FIELD (MONTGOMERY)-At ngt or under IFR conditions large depot 1 mi. S looks like arpt and lgts give impression of parallel rnwys. NE/SW, NW/SE rnwys closed (const). Equip. on fld. (6-18)

MIDDLETON FIELD (EVERGREEN)-Rnwy lgts inop. (7-18)

★MOBILE-RADIO: VHF voice fac comm at communication sta. Transmits on and gds 116.1 mcs cont. Sta class: SBRAZ-VDT. (8-28)

**MUSCLE SHOALS ARPT. - Correct elev 545 feet. (Nashville chart) (8-1) Fuel avail. civil. acft only. (8-1)

NAPIER FIELD (DOTHAN)-Avail. civil. acft in emerg only. (8-6)

OZARK AAF-Temp inactive. No facs. (See Special Notice re use).

PRYOR FIELD (DECATUR)-Mun. oper and acft storage depot. No collect calls or telegrams accepted by storage depot. (6-22)

★TUSKEGEE AAF-RDO: Army twr oper. 0700 to 1900 (8-28) FLD: Temp inactive. No facs. (See Spec. Notice) N/S, E/W rnwys clsd at N-S/E-W insxn; open for taxiing & emerg. only.

TUSKEGEE INSTITUTE FIELD NO. 1 (TUSKEGEE)-Soft in spots, marked. (1-21) (7-18)

ARIZONA

ASHFORK (Site 36A, Los Angeles-Amarillo)-Rough. (5-1)

COCHISE-RADIO: About Sept. 16, NW course will be realigned to 164°. (8-29)

COOLIDGE AAF-Temp inactive. No facs. (See Special Notice re use).

DAVIS-MONTHAN FIELD (TUCSON)-E fld closed, acft parked on rnwys. (8-29)

DEEP LAKE (Site 54A, Los Angeles-Amarillo)-E end E-W, N end N/S strips rough with soft areas due wind erosion, soft sand, marked. (7-12)

DOUGLAS AAF-Temp inactive. No facs. (See Special Notice re use).

ECHEVERRIA FIELD (WICKENBURG)-Use rnwys only (parked acft).

ERNEST A. LOVE AIRPORT (PRESCOTT)-Use wind tee SW of apron, other wind tee not controllable. (6-20)

FALCON FIELD (MESA)-CLOSED TO TRANS ACFT - no facs. (9-19)

GILA BEND AAF-Tetrahedron inop. (8-26)

HOLBROOK MUNICIPAL AIRPORT (HOLBROOK)-CLOSED (rough). (6-13)

**KINGMAN-Bombing range approx 11-1/2 mi NE has been discont.

KINGMAN AIRPORT-No inst flights cleared to Kingman. No obst lgts atop Haulpai Mt. (8500 feet MSL) 11 mi. S. Rnwy lgts Rnwy 17-35 inop. (7-12)

**KINSLEY RANCH AIRPORT (AMADO)-New fld. 1-6/10 mi NNW, riv, RR E. Lat. 31-43-45, long. 111-03-48. Elev 3100 feet. 1 strip: 3100 x 200 feet, NE/SW. (Phoenix chart) (6-25)

LUKE FIELD (PHOENIX)-Traffic direction indicator on N hangar. (1-11)

**MESA AIRPORT-New fld. 1-4/5 mi NNW, hwy E, canal S and W. Lat. 33-26-15, long. 111-50-30. Elev 1100 feet. 1 strip: 1800 x 300 feet, E-W. Pwr line E, W, bldgs E, canal embankment W. (Phoenix chart) (6-12)

NOGALES INTERNATIONAL AIRPORT (NOGALES)-Use only NE/SW rnwy and paved taxiways, bal fld soft and eough due to heavy rains and erosion. (4-29)

PARADISE AIRPORT (GLENDALE)-Const. (6-3)

PHOENIX-Inst train. on Phoenix Range between 5500 and 9500 feet.

RYAN FIELD (TUCSON)-Use rnwys only, bal fld soft in wet weather, parked acft. Washes N edge. (8-8)

SELIGMAN (Site 32, Los Angeles-Amarillo)-Rough. (4-24)

SKY HARBOR AIRPORT (PHOENIX)-Maj const until approx Oct. 1. Equip. 750 feet N and S of center line of E/W rnwy, E of intersection of E/W and N/S rnwys. All acft remain W of intersection of N/S and E/W rnwys, also stay S of a point 750 feet S of intersection of E/W and N/S rnwys when N/S rnwy in use. E/W and N/S rnwys will be closed intmtly during const. Closing of rnwys will be indicated by large white X on ends of rnwys. Const work in ramp area extending just E of main hangar to just W of Terminal Bldg. (8-19)

THUNDERBIRD AIRPORT NO. 2 (PHOENIX)-Use strips only (parked acft).

TUCSON-RADIO: Courses aligned by ground check only. (8-23)

TUCSON AIRPORT-Avail. civil. acft days only. (2-3)

WILLIAMS FIELD (CHANDLER)-RADIO: Army range unsatisfactory for radio navigation use for training only. (8-26) FLD: Use rnwys only.

WINSLOW AIRPORT-E end E/W taxi strip beyond first tie-in closed. (7-27)
YUMA AAF-Temp inactive. No facs. (See Special Notice re use). Adj beacon changed from green to clear. Bndry lgts in emerg. only. (3-15)

ARKANSAS

[illegible] FIELD (LITTLE ROCK)-Use rnwys only - shoulders soft. Equip. on fld.(8-2)
**ALMA ARPT.-New fld. 1-1/2 mi. SE. Lat. 35-28-00, long. 94-12-30. 1 strip: 2200' N/S. 80 oct, storage. (Little Rock chart)(8-17). Infor. unverified by CAA.
BLYTHEVILLE AAF-Temp inactive. No facs. (See Special Notice re use).
[illegible]INKLEY ARPT-SITE 37, DALLAS-LOUISVILLE-No fuel or svcg. (8-15)
**CENTRAL ARPT (LITTLE ROCK)-New fld. 4-1/2 mi NE, RR S. Elev. 255'. 2 strips: 3000' N/S, 3500' E/W, both 600' wide. 80 oct., sto., minor engine and acft repairs. Trees W. (Little Rock chart)(8-19). Info. unverified by CAA.These data rcvd too late for inclusion on flight planning chart.
EL DORADO-RADIO: VHF range will be comm soon at lat 33-17-00, long. 92-46-00. Freq. 109.1 mcs, ident. "LD" (. - . . - . .) Visual courses: 45°,225°; Aural courses: 135°, 315°. courses mag and towards sta. Mag. var.: 7° E. Station class: VARW. (8-14)
EL DORADO AIRPORT-GOODWIN FIELD (EL DORADO)-Lgts avail. emerg. only.(5-3)
FORT SMITH AIRPORT-Acft over 28,000 lbs use in emerg. only. Use rnwys only - taxi strip and ramp being repaired. (7-8)
GRIDER FIELD (PINE BLUFF)-Use strips only (parked acft). Closed ngts.(6-7)
HELENA-Two unlgtd 405' twrs crossing Miss. River at S edge City. (7-20)
**HOPE AAF-No longer assigned to Army. Will hereafter be carried as Hope Arpt. Open to public. Bcn, bndry, obst lgts. 80,91 oct., sto., major acft and engine repairs. Lgts on prior req. Use rnwys only. (Shreveport chart)(8-12)
**JONESBORO ARPT.-80,91 oct. (8-16). These data rcvd too late for inclusion on Flight Planning Chart. Use rnwys only. (8-16)
**MCLAUGHLIN ARPT (HOT SPRINGS)-Fld oper. for Army acft will be 0800-1600, Mon. thru Fri. Bcn, rnwy, and bndry lgts avail. on req 1 hr prior ETA. Flight plans and arrivals for Army acft will be handled by local fld opers during working hrs. (8-16). Use caution when landing and taking off. (4-25)
PINE BLUFF-RADIO: VHF range will be comm soon at lat 34-14-18, long. 91-55-36. Freq. 108.7 mcs. Ident. "PL". Visual courses: 27°, 207°. Aural courses: 117°, 297°. Stn class: VARW. Mag var. 7° E. (8-14). This corrects "Airgi", Vol. 1, No. 11.
STUTTGART AAF-Temp inactive. No facs. (See Special Notice re use).
THOMPSON-ROBBINS FIELD (HELENA)-Use rnwys only (parked acft).
WALNUT RIDGE AIRPORT-Acft parked all areas fld and ramp. Use rnwys only. Equip on fld. Closed 1730 to 0800. (4-4)

CALIFORNIA

ALAMEDA NAS-Maintain high approach on Rnwys 26L and 22. Heavy acft parked these areas. 175' unlgtd cranes 2000' from NE corner fld. - caution ngts and during low visibility. Lgtd dredge and pipe line extending to shore operating 1/2 mi S of lagoon in seadrome. Equip. adj to and on rnwys. Fld on positive control. (8-16)
**ALHAMBRA ARPT-ABANDONED. (Los Angeles chart)(8-15)
AMERICAN LEGION AIRPORT (SALINAS)-Obsts on E/W strip. (3-16)
★ARCATA-RADIO: Bear. and dist, range stn to Arcata Arpt: 40, 3 mi. This corrects "Airgi", Vol. 1, No. 11.
★ARMITAGE NAF (INYOKERN)-RADIO: Navy twr comm Aug. 20, transmits on 3295,6970 kcs, 142.74 mcs. Guards 3105,3195,4495,6210,6390 kcs, 126.18,142.74 mcs days only. FLD: New fld. 8 mi ENE. Lat. 35-42-00, long. 117-43-56. Elev. 2218'. 3 rnwys, longest rnwy 9000', 310° - 130° Mag. Bcn, rnwy, obst lgts. 91, 100 oct. No sto. (Los Angeles chart). (8-2)
**[illegible]ONT ARPT-Equip. on fld. Avail. at pilots risk. NW end Rnwy 28 closed.(4-2)
**[illegible]TON ARPT (REDDING)-Name changed to Benton Arpk. (Mt.Shasta chart)(7-25)
[illegible]WELL FIELD (RED BLUFF)-Tetrahedron inop - contact twr or observe wind sock atop hangar. (4-7)
BLYTHE AAF-Temp inactive. No facs. (See Special Notice re use).
**BONCHE-CLARKSBURG ARPT (CLARKSBURG)-Only 80 oct. (6-13)
BRAWLEY ARPT-Holes in extreme NW corner fld. (3-20)
BROWN FIELD NAAS (OTAY)-Use in emerg only (caretaker status - no facs)
BURBANK-RADIO: Intermittent interference from Navy transmissions on adj. channel of 245 kcs. (5-23)
BURBANK-LOCKHEED AIR TERMINAL-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS.THIS STA. Right traffic use Rnwys 7, 15; left traffic use Rnwys 25, 33. Approach lgts Rnwy 7 changed to red. Lgts on approach to Rnwy 7 partially obstructed by trees. 2-way radio required all acft. (8-2)
CAL AERO AIRPORT (ONTARIO)-Use rnwys only (parked acft).
CATES (Beacon Site 235 mi. Blinker, San Francisco-Seattle)-Beacon inop.(2-17)
CLEAR LAKE SEAPLANE BASE-Avail. in emerg. only. (6-11)
CORCORAN-135' unlgtd twr being const adj Santa Fe RR, downtown Corcoran.Upon completion will be 148' high and lgtd. (2-24)
COTATI OLF-Crash truck avail. at Santa Rosa NAAS upon req. (6-11)
CROWS LANDING NAAS-Use in emerg only (caretaker status - no facs).
DESERT CENTER (Site 17, Los Angeles-Phoenix)-E/W rnwy emerg use only.(5-1)
DONNER SUMMIT-RADIO: Excessive interference with Army Range at Mather Fld, Sacramento, Calif. NW course displaced 4° W, bear. 134°, SE course displaced 6° E, bear. 312°. (5-29)
★EL CENTRO-RADIO: VHF voice fac comm at communication stn. Transmits on and gds 116.1 mcs cont. Stn class: SBMRLZ-VDT. (8-29)
EL CENTRO NAS-Lgts E/W rnwy inop. Avail. 0700 to 1800. Other hrs on 30 min. prior notice. Service rnwy will be lgtd for emerg use. (6-24)
EL TORO MCAS-Fld carrier landing practice Rnwy 25L. Trans acft use Rnwy 25R when practice in progress. Rnwy-taxis. Fld on positive control. (5-7)
FAIRFIELD-SUISUN AAF (FAIRFIELD)-RADIO: Army ILS sys (SCS-51) temp inop. (7-8). Army Range unreliable, use for homing only. (8-28) FLD: First 1000' Rnwy 25 closed (obst). New Rnwy 21 closed. (8-22)
GARY FIELD (BLYTHE)-Use rnwys only (parked acft).
GRAND CENTRAL ARPT (GLENDALE)-CLOSED TO ALL ACFT HAVING GROSS WEIGHT IN EXCESS OF 35,000 LBS. Parking area pitted, marked. W end Rnwy 12-30 being shortened.1000'. (6-1)
HAMILTON FIELD (SAN RAFAEL)-Ext. to Rnwy 12 closed except in emerg.(6-4)
★HAMMER FLD (FRESNO)-RADIO: Army twr discont. (8-7) FLD: Temp inactive. No facs. (See Special Notice re use).
HAWTHORNE AIRPORT-NORTHROP FIELD (HAWTHORNE)-CLOSED TO ALL ACFT EXCEPT ON OFF BUS. Use Los Angeles Arpt.
HUMBOLDT COUNTY AIRPORT (EUREKA)-Closed to trans acft (const,equip).(7-6)
**INDIO ARPT-176' twr Radio Sta KREO erected 1½ mi S (180°) true (San Diego chart)(7-25)
INYOKERN NAF-HARVEY FIELD (INYOKERN)-Use in emerg. only (caretaker status no facs)(8-14)
**KERN COUNTY ARPT (BAKERSFIELD)-Obst lgt on water tank 1/4 mi N of control twr permanently discont. (8-29). Unlgtd 92' pwr line 1/2 mi N of bndry.(7-3)
LINDBERGH FIELD (SAN DIEGO)-Army temp inactive - civil. facs. Acft departing for or arriving from Mexico land at Lindbergh Fld for customs clearance. Closed to acft without 2-way radio unless prior approval received from Arpt Mgr. 30' crane on SW end Rnwy 31. (8-21)
LIVERMORE NAS-Only Rnwys 3-21, 7-25 avail.,only Rnwy 7-25 will be lgtd ngts. Flood lgt truck used on Rnwy 3-21 upon req. Closed Mon. and Tues every week except in emerg. (8-14)

LIVERMORE OLP-Obstr in SW corner fld. (2-4)
LOCKHEED AIR TERMINAL-See Burbank.
LONG BEACH ARPT-RADIO: Voice freqs of AACS, ground to air stn temp inip. (7-19) ARPT: Obst lgts atop 165' twr Radio Stn KVOE 15 mi ESE (107° T) inop. No 91 oct avail. mil acft. Mntnc facs avail. mil acft 0800-1630; svcg 0800-2400. No JP-1 fuel avail. (8-27)
LOS ALAMITOS NAAS-Closed to all acft sunset to sunrise. Rnwy 22L clsd. (8-5)
LOS ANGELES-SPECIAL NOTICE-All acft requested to avoid Hollywood Bowl Area from 2000 to 2300 daily. (7-26)
LOS ANGELES ARPT-MINES FIELD (LOS ANGELES)-RADIO: CAA twr now gds 3105,4495, 6210,3117.5 kcs, 116.1,126.18 mcs. (8-22) FLD: Oil derricks on approach to Rnwy 34 unlgtd. Rot. beacon unlgtd days. E/W paved strips S side fld avail. taxiing only. N side fld under const. Equip. on fld, N edge Rnwy 7L-25R. All landings, take-offs and taxiing restricted to paved areas. Rnwys 11-29, 4-22 closed. Army temp inactive - civil facs. Trans mil acft use Van Nuys Metropolitan Arpt. Obst lgt inop atop Army twr SW corner fld. (6-28)
LOS ANGLES-LONG BEACH HARBOR EMERGENCY SEAPLANE LANDING AREA-May not be avail. on short notice due to congestion in anchorage area. Two hrs advance notice should be given if possible. (7-1)
★MARCH FIELD (RIVERSIDE)-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21). Army (CAA type) ILS inop (relctn)(5-21)
MATHER FIELD (SACRAMENTO)-RADIO: Excessive interference with Donner Summit Radio. Army ILS (SCS-51) temp inop. (7-25) FLD: Use rnwys only. Mat unserviceable. No longer assigned as Foreign Clearing Stn. (3-18)
McCLELLAN FIELD (SACRAMENTO)-Rnwy 4-22 closed (parked acft). Equip. adj all rnwys. All shoulders and unsurfaced areas unsafe. (4-24)
MERCED MUN. ARPT.-Const NW/SE rnwy closed. Ditches adj each edge NE/SW rnwy - equip along edges. Use with ctn. (8-27)
MINTER FIELD (BAKERSFIELD)-Temp inactive. No facs. (See Special Notice re use
MIRAMAR MCAS (SAN DIEGO)-Rnwy 10-28 under const. Rnwy 6-24 avail. Fld on positive control. All acft in San Diego Area use caution while approaching Miramar MCAS. (3-19)
MOFFETT NAS-LTA (MOUNTAIN VIEW)-Equip, trenches adj to NW/SE rnwy. Caution landing, taxiing and taking off. Equip, on fld. Fld on positive control. Multi-engine acft above JRB class use Rnwy 14L-32R only, except in emerg. (7-23)
**MOJAVE MCAS-Changes to Mojave NAS. (Los Angeles chart)(8-19)
MOJAVE NAS-Equip on Rnwy 25. Fld on positive control. (8-18)
**MONTEREY NAAS-No longer assigned to Navy. Will hereafter be carried as Monterey Peninsula Arpt. Open for all types of oper during daylgt hrs. Bcn and bndry lgts on 6 hrs advance notice. 80, 91 oct. (San Francisco chart). (8-20). Data unverified by CAA.
MUROC AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA. Lctd within a danger area. 50' equip. near W end Rnwy 6-24. No 91 oct. No facs 1900 to 0700 or Suns. (5-16)
**NEEDLES-Bombing range approx 11 mi SE has been discont.
NEEDLES-RADIO: 136.1 mc transmitter and receiver temp inop. (9-1) These data rec'd too late for orange symbol on Flight Planning Charts.
★NEWHALL PASS FM-RADIO: Aug. 26, FM discont. To be relctd about Sept. 10, at Castaic, Calif., lctd at Bcn Site 3B, LA-SF Arwy, ident four dashes.
OAKLAND AIRPORT-Naval acft avoid fld except on off. bus. Clsd to civil. acft except on authority from Arpt Supt. Rnwy 6-24 closed until approx Aug. 24. Rock surface area between E and W taxiway and Rnwy 27R avail. lgts acft. Take off from center of area and adhere to instructions issued by twr. No Army opers or svcg avail. 2300 to 0700. Taxiway leading from Rnwy 33 to

ramp at Navy terminal closed (used for parking surplus emerg acft). Equip. in grass area W of Rnwy 24 ngts. Area under const, marked. No aerological facs avail. No gas or mntnc facs avail. 1800-0800 xcp in extreme emerg. Ltd gas, mntnc facs 0800-1800. (8-29)
**OAKLAND SEAPLANE BASE-6 mi S; in head of channel leading in from San Leandro Bay to N of arpt. Lat. 37-44, long. 122-13. Elev. sea level. Ramp, beach, haul-out gear, fuel, minor engine, acft repair, etc. (5-15)
O'CONNELL BROTHERS AIRPORT (BRAWLEY)-E/W strip being extended to 2400' (7-21)
PALM SPRINGS AAF-Temp inactive. No facs. (See Special Notice re use). NW/SE rnwy and tetrahedron lgts, rot, beacon avail. (5-17)
RIALTO NAAS (SAN YSIDRO)-Equip.on rnwys. Fld on positive control. (7-22)
**RICE-Bombing range approx 5 mi N has been discont.
RYAN FIELD (HEMET)-N side matted area rough. (5-2)
SACRAMENTO-RADIO: 116.1 mc transmitter and receiver temp inop. (8-23)
SACRAMENTO ARPT-Acrobatics and low flying days from flight strip 1000' W of Sacramento Arpt. (6-17). NW/SE rnwy avail. days. Use rnwys, taxi strips only - shoulders and fld unsafe (soft)(6-8)
SAN BERNARDINO COUNTY AIRPORT (DAGGETT)-Obst lgts atop 50' poles along RR 1000' from end Rnwy 3 inop. Clsd to civil acft except in emerg. (7-2)
SAN DIEGO NAS-Traffic circle is oval in shape with left turns at 800'. Traffic pattern may be entered at any point at any angle not greater than 45°. Landing will not be made without passing thru Point Love, unless directed by twr. Point Live is lctd on traffic pattern 1½ mi S of Hotel Del Coronado. Acft crossing air traffic lanes at North Island must be above 1500'. Acft will not fly over Coronado or Amphibious Train. Base at an alt of less than 1500'. Multi-engine acft land on heavy-duty rnwys. Single-engine acft land on asphalt mat. Equip. on outer heavy duty concrete taxiways. Tetrahedron removed (repairs). Equip. off W end Rnwy 11-29. Marked taxiways closed. All acft use caution. (8-13)
**SAN FRANCISCO ARPT-200' twr Radio Sta KVSM erected 6 mi SE (125°) true. Properly obst lgtd. (San Francisco chart)(8-9). Two lines unmarked white spar buoys 8' above water moored in NW/SE direction along edges of shipping channel adj to easterly side of Seaplane Area and extend SE therefrom. Anchored vessels in shipping channel between lines of buoys. Vessels unmarked and will be lgtd only as required. Avoid rnwy, taxiways shoulders. Turf area closed, unmarked hazards. Use rnwys, taxiways. Rnwy 18-36 closed (const). (7-18)
SAN FRANCISCO BAY-Rnwy marker lgts and buoys in seaplane landing area N of San Francisco-Oakland Bay Bridge between Treasure Island and the mainland have been temp removed. (2-6)
SAN MATEO AIRPORT-Const. Avail. lgt acft only. (4-29)
SAN NICOLAS ISLAND NAAS-Use in emerg only (caretaker status - no facs).
★SANTA BARBARA ARPT-RADIO: CAA twr now guards 3105,4495,6210,3117.5 kcs,118.7, 126.18,142.74 mcs. Oper 0700 - 2300. (8-22)
SANTA MARIA AAF-Stay clear sides all rnwys, taxiways. E/W rnwy closed. Temp inactive. No facs. (See Special Notice re use).
SANTA MONICA AIRPORT-CLOVER FIELD (SANTA MONICA)-Avail. trans acft with two-way radio. Clsd ngts, and to all student pilots. (8-10)
SANTA ROSA NAAS-Equip, along rnwys. E/W rnwy closed. (6-11)
SECRET VALLEY (Site 52, Riverside-The Dalles)-Soon all lgts will be discont.-avail. days only. (8-3)
SHERMAN FIELD (WALNUT CREEK)-Surplus Acft Sales Center - parked acft.
STOCKTON FIELD-Rnwy 4-22 closed. At ngt or under IFR large depot 6-1/2 mi S looks like arpt, lgts look like parallel rnwys. Temp inactive. No facs. (See Special Notice re use). (6-24)
SWEETWATER LANDING STRIP-Arrangements for using this fld made thru Operations Officer NAAS Brown Fld. No communications at landing strip. (5-13)

TERMINAL ISLAND NAS (SAN PEDRO)-Trans acft will not be cleared to fld after sunset. (4-8)
TRONA (Site 13, Riverside-The Dalles)-Soon all lgts will be discont - avail. days only. (8-3)
TULARE LAKE SEAPLANE BASE-CLOSED - water level 2'. (7-17)
**VAN NUYS METROPOLITAN ARPT-Minor acft and engine repairs. (8-15). E/W rnwy closed. Rot. and flash. beacon inop. Ltd facs. Avail. 0700 to 1900 temporarily. (5-29)
VENTURA COUNTY ARPT (OXNARD)-Beacon, bndry, obst lgts inop. Flare pots avail. in emerg. or by prior arrangement ngts. (5-7)
VERNALIS FIELD-CLOSED. Equip, obsts on rnwys, and aprons. (8-15)
VICTORVILLE AAF-Use rnwys 16L-34R, 7R-25L only. (7-3)
VULTEE ARPT (DOWNEY)-Rnwys avail. days only when on off. bus. (6-25)

COLORADO

BUCKLEY FIELD (DENVER)-Temp inactive. No facs. (See Special Notice re use).
DENVER (BUCKLEY FLD)-All acft observe bombing danger area approx 12 mi ESE within the following bndry: N by lat. 39-41; S by lat. 39-35, W by long. 104-45; E by long. 104-26. (8-15)
**DOUGHTY'S ARPT (JULESBURG)-Private landing area. Use in emerg. only.(Cheyenne chart)(4-10)
ESTES PARK ARPT-Land to the S only. Pwr approach recommended and landings should be made in first 1/3 of rnwy. If necessary to go around again do not make left turn without at least 500' alt. (6-20)
LA JUNTA AAF-Temp inactive. No facs. (See Special Notice re use)
**LONG MONT ARPT-Elev. 5030'. 4 strips: 2100' N,S, 3300' E/W, 3200' NE/SW, all 150' wide. 4000 x 75' NW/SE. 80, 91 oct, major engine and acft repairs. (Cheyenne chart)(5-15)
LOWRY FIELD (DENVER)-RADIO: AACS, ground to air stn temp suspended. (8-19) FLD: Ltd parking and quarters. (8-19)
**MEEKER ARPT-1 strip: 3100 x 150' NNE/SSW. (5-5)
MONTE VISTA AIRPORT-CLOSED (const). (8-8)
PINE VALLEY ARPT (COLORADO SPRGS)-E/W rnwy avail. between markers only. New N/S rnwy being const W of present N/S rnwy. All rnwys being widened to 300' Heavy const equip. on fld days. Use rnwys only. (7-5)
PUEBLO-High explosives are being detonated in an area 6 mi by 7 mi, approx. 17 mi E of Pueblo Arpt. (1-1/2 mi N of Red Arwy 35). Acft are requested not to fly in this area. (7-18)
PUEBLO-RADIO:Boom,auto.rng monitor. sys will be comm, monitor. SE course (329° mag). (8-14)
PUEBLO ARPT-Rot. beacon atop hangar when lgtd indicates fld is clsd except to scheduled air-carrier acft and shall be lgtd only when air carriers are approaching fld or taking off. Capt. of air-carrier acft shall report his arrival time not less than 5 mins before approaching fld. Air carriers taxi on oiled rnwys only. Equip. on rnwy edges days until approx Aug.30, marked. (8-16)
PUEBLO AAB-Temp inactive. No facs. (See Special Notice re use).
ROYAL GORGE ARPT. (CANNON CITY)-Do not land to the S (telephone lines)(6-11)
RUSTON FIELD (DENVER)-Const. Strips soft during wet weather. (5-25)
RUTLEDGE FIELD (DU PONT)-Surplus Acft Sales Center - parked acft.
SKY RANCH ARPT (DENVER)-RADIO: Mun. twr temp inop. (4-1) FLD: Right traffic Rnwys 26,30,36, left traffic Rnwys 8, 12, 18. Traffic controlled by manually operated tetrahedron. Avail. CPR oper days only. (3-27)
STAPLETON AIRFLD-DENVER ARPT (DENVER)-Ltd svcg facs. (5-25).
TRINIDAD ARPT-Avail. lgt acft only. Hangar being constructed N end fld adj center of fence line. Equip. on fld. (7-18)
WALKER FIELD (GRAND JUNCTION)-RADIO: CAA ILS Flight-checked Aug. 18. Lclzr operating without voice fac. Low clearances exist all portions lclzr, blue and yellow sectors.
**MAY MUN. ARPT-3 strips: 3000' N/S, 2000' NE/SW,E/W, all 100' wide. (4-10)

BRAINARD FLD (HARTFORD)-Equip. on fld intermittently. Turf closed to heavy acft (soft). 300' bldg under const 1-1/2 mi NW of fld bndry,close to NW leg Hartford Rng. Flood lgts N end N/S rnwy inop. 75' lgtd pile driver moored in Conn. River 700' S of N/S and NW/SE rnwy intersection. (7-24)
BRIDGEPORT AR[illegible]-Use rnwys only. (8-2)
BROOKFIELD AR[illegible]-Open only to planes grossing less than 2000 lbs and closed to trans student pilots. (6-10)
**CANAAN ARPT-80,91 oct. major engine and acft repairs. No sto. (6-6)
**DANBURY FLD (WALLINGFORD)-No storage. (6-5)
**MERIDEN ARPT-80 oct, storage, major engine and acft repairs. (6-4)
NEW HAVEN ARPT-Avail. days only. Use rnwys only. (12-4).
**SALEM ARPT-80 oct, storage, major engine and acft repairs. (6-6)
SIMSBURY ARPT-Turf soft. Washouts E end E/W rnwy. (5-21)
**WATERFORD ARPT-Only 80 oct, storage, major engine and acft repairs. (6-4)
**WEST HAVEN ARPT-80 oct, minor engine and acft repairs. No storage. (6-5)

DELAWARE

BELLANCA FIELD (NEW CASTLE)-Use rnwy only. Sod strips under const. (6-13)
**DOVER AAF-No lgts or svcg. (Washington chart)(8-26). No facs. (See Special D Notice re use)(9-1)
★NEW CASTLE-RADIO: Radio Rng operated by TWA comm at lat 39-39-00, long. 75-36-30. Freq. 350 kcs. Ident. "NC" (- . - . - .) Stn class: SMRAZ. Courses: 19°, 109°, 199°, 289°. Mag var 9° W. Bear. and dist, stn. to Newcastle Co. Airport: 19°, 2.8 mi. (8-26).
★NEWCASTLE COUNTY ARPT (WILMINGTON)-RADIO: TWA oper twr comm Aug. 25. Transmits on 219 kcs. Guards 3105,4495,6210,3117.5 kcs, Oper cont.

DISTRICT OF COLUMBIA

SPECIAL NOTICE-TELEVISION TWR 730' ASL ERECTED 6.2 MI NW (302°) OF WASHINGTON NATIONAL ARPT, LAT. 38-53-46, LONG. 77-08-05. (3-22)
ANACOSTIA NAS (WASHINGTON)-Avail. 0700 to sunset. Avail. to transport traffic after sunset upon receipt of two hrs prior req of ETA. (7-12) Boom const masts 100 to 150' high lctd 600 to 800' N of Rnwy 3-21, lgtd ngts, yellow flags days. (2-5)
BOLLING FIELD (WASHINGTON)-Rnwys 10-28, 14-32 closed. Rnwy 17-35 closed to acft when weather conditions below contact flight minimums. No 91 oct. (4-29)
WASHINGTON NATIONAL AIRPORT (WASHINGTON)-RADIO: Glide path of ILS temp deconm. (6-15). ILS will be shut down about Sept. 9 for approx 30 days. (8-31). FLD: Navy: Closed to all Navy planes except MATS. Use Anacostia NAS. In special instances, all of which will be cleared by Anacostia Twr, Washington National Arpt will be avail. to Navy planes. Army: All previous instructions re use rescinded and following substituted. Closed to trans Army acft except those of ATC, those having off. bus. at fld and those carrying VIP. Acft carrying VIP. Acft carrying VIP will make their stop as brief as is consistent with mission to be performed and in no case ROM. Bolling Fld or Andrews Fld will be used for all other Army flights except in emerg. Army acft landing this fld should taxi to new ATC Terminal Bldg N of Admin. Bldg. General: Closed to acft without radio. Stay on paved areas, all edges soft. 10' lgtd glide path house 400' E and 900' N of S end N/S rnwy. Flood lgts W end E/W rnwy inop. Excavation, equip. along taxiways 1,2, 3,4,5,6; ends of Rnwys 18,21,33,27,36 and 3. Use extreme caution when swinging planes in these areas. Equip. SE portion fld and along apron edge. Caution taxiing or parking on apron. Flood lgts on Washington Monument 3 mi N inop. (6-15)

ALBERT WHITTED AIRPORT (ST. PETERSBURG)-Fld unlgtd - smudge pots avail. with one hrs notice. Avoid sodded areas, and white sand area E of N/S rnwy extending to water (soft). (1-2)

**ALBERT WHITTED SEAPLANE BASE (ST. PETERSBURG)-3/4 mi SE; adj Arpt. Lat 27-45, long. 82-37. Elev sea level. Landing area unlimited. 80 oct. (Miami chart). (7-22). Info unverified by CAA.

APALACHICOLA AAF-Temp inactive. No facs. (See Special Notice re use).

AVON PARK AAF-Temp inactive. No facs. (See Special Notice re use).

**AVON PARK SEAPLANE BASE-Name changed to Lake Lotela Seaplane Base. (7-22)

BANANA RIVER NAS-RADIO: Navy exper VHF rnwy localizers and various types of ILS operate intermittently day, ngt. (5-2) FLD: Acft of various types operating cont during IFR up to and including 2000' with weather minimums as low as 200' ceiling and 1/8 mi visibility. Air space will include area 20 mi radius from Banana River NAS. Acft will practice inst approaches. (4-17) Closed to civil acft days except with prior permission from CO and in emerg. Closed ngts to civil. acft except in emerg. S end Rnwy 2-20 under const. Taxiway lgts being installed. Rnwy lgts being repaired, lgtd on req. Const on Rnwy 2-20 - closed to all acft xcp in emerg until approx Sept 6. (8-23)

BANANA RIVER NAS SEAPLANE BASE-Seaplane landing area avail. W of sta on Banana River. Wind line consisting of seven green lgts on location in center of area ngts when training is scheduled. (7-11)

BOCA RATON AAF-Port. floods avail. on 15 minutes notice. No 91 oct. Stay on rnwys - shoulders soft. (6-27)

**BRADENTON SEAPLANE BASE-73 oct; 80 oct on req. (7-22)

BRONSON FIELD NAAS (PENSACOLA)-RADIO: Navy landplane and seaplane twrs avail. for emerg use only. (8-13) FLD: Closed to all trans acft. (8-14)

CECIL NAAS (JACKSONVILLE)-Use in emerg. only (caretaker status - no facs).

**CORKSCREW (Beacon Site 12, Tampa-Miami)-Site discont. (Miami chart). (8-8)

CRAIG FIELD (JACKSONVILLE)-Use rnwys only. (6-3)

DALE MABRY FIELD (TALLAHASSEE)-RADIO: 281 kc, 126.18, 118.3 mc transmitters and 3105, 3117.5, 4495, 6210 kc, 118.3, 126.18 mc receivers at CAA twr temp inop. Twr now operating on E side of fld with lgt signals only. (7-10) FLD: S 500' N/S rnwy unusable. 26' bldg erected 900' NW of NW end NW/SE rnwy, lgtd. Acft watch twr E side fld for lgt signals. (8-6)

**DAYTONA BEACH ARPT-80, 91 oct. (8-27). These data rc'd too late for inclusion on Flt Planning Charts.

**DREW FIELD (TAMPA)-Elev 26', (Miami chart). (8-15). Use rnwys only. Equip. on fld days. Avail. to radio receiver-equipped acft tuned to twr freq. (6-28)

EGLIN FLD (VALPARISO)-RADIO: Army ILS sys (SCS-51) temp inop. (7-30) FLD: Acft approaching fld will enter Danger Area on the N or S side of area (25 mi S) along right edge of S leg of Crestview Range. (1)-Acft on CFR will fly 3000' or 500' below the ceiling whichever is lower, until cleared by Eglin Twr. (2)-Acft on IFR will enter at last assigned airways cruising alt and contact Eglin Twr for letdown instructions. Exten const. All rnwy lgts inop. Closed 2000 to 0600. Rnwy 13-31 closed. (7-29)

ELLYSON NAAS-EAST & WEST FIELDS (PENSACOLA)-CLOSED TO TRANS ACFT EXCEPT IN EMERG. (10-27)

FORMAN OLF (FORT LAUDERDALE)-RADIO: Fld control will be by a rnwy portable radio transmitter operating on 142.74 mcs.

FORT LAUDERDALE-Obst lgts inop on N twr Radio Sta WGBS lctd 8 mi W. (8-10)

FORT LAUDERDALE NAS-Open to all mil acft 0600 to 1800. Closed ngts. (6-15)

GILBERT FIELD (WINTER HAVEN)-Use rnwys only. (12-22)

**GRAY'S ARPT (LEESBURG)-New fld. 5 mi N; RR, hwy W. Lat 28-53-00, long. 81-53-30. Elev 130'. 2 strips: 2654' N/S, 1881' E/W, both 330' wide. Orange groves W. 80 oct, sto., major engine and acft repairs. (Orlando chart). (6-12).

**HAL HOOVER'S SEAPLANE BASE (LEESBURG)-New base. 1 mi N. Lat 28-50, long. 81-52. Elev 15'. Landing area unlimited. 80 oct; ramp, beach, dock. (Orlando chart). (8-19). Info unverified by CAA.

HIDDEN ACRES AIRPORT (CLARCONA)-W end E/W strip being graded - E 1500' avail lgt acft. (6-26)

**HIDDEN ACRES SEAPLANE BASE (CLARCONA)-New base. 1½ mi WNW; adj arpt; 10 mi NW Orlando. Lat 28-38, long. 81-31. Elev 90'. Landing area 3000'. 80 oct, sto, major engine and acft repairs. (Orlando chart). (7-22). Info unverified by CAA.

HILLSBOROUGH AIRPORT (TAMPA)-CLOSED. Sinkhole center of E/W rnwy 100' E of intersection center of fld. (5-26)

HOEQUIST ARPT (ORLANDO)-S half E/W rnwy avail, marked. (3-20)

JACKSONVILLE AIRPORT NO. 1-Army facs only. Equip. both ends NE/SW rnwy. Obst lgts Rnwy 18R-36L, obst lgts on poles, bldgs, SW fld inop. Tetrahedron inop, obst lgtd. (7-31)

JACKSONVILLE NAS-Closed to all ngt seaplane opers. Trans acft desiring ngt landing facs notify Jacksonville NAS 12 hrs in advance. Testing equip. on fld. (3-4)

**JAMES JOHNSTONE SEAPLANE BASE (ST. PETERSBURG)-New base. 7 mi W. Lat 27-45, long. 82-45. Elev sea level. Landing area unlimited. 80 oct, sto, major engine and acft repairs; ramp; all facs. (Miami chart). (7-22), Info unverified by CAA.

KEY WEST NAS-150' lgtd oil derrick being erected ¾ mi ENE (76°) true. (6-7)

KEY WEST NAS SEAPLANE BASE-CLOSED TO TRANS ACFT EXCEPT IN EMERG OR PRIOR ARRANGEMENT. (6-19)

LEE OLF (GREEN COVE SPRINGS)-Closed except in emerg and off. flights. 24 hrs advance notice to CO NAS, Jacksonville required to arrange facs for landing (1-26)

LEESBURG AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT UNDER WRITTEN ORDERS OF AN AIR FORCE COMMAND OR HIGHER AUTHORITY OR IN EMERG. No facs.

MacDILL FLD (TAMPA)-RADIO: Glide path of Army ILS (SCS-51) temp inop. (6-19). Army M fac temp inop. (8-5). FLD: Rnwys 4-22, 13-31 and 18-36 avail. (8-12)

MARIANNA ARPT-Equip. on fld days. Flagged hole in Rnwy 8-26. Rnwy 4-22 closed. (10-10).

MAYPORT CGAS-Closed to all traffic except Air Sea Rescue and emerg landings (caretaker status - no facs).

MEACHAM AIRPORT (KEY WEST)-Two unlgtd 40' water tanks 400' E of S end Rnwy 4-22. (7-10)

MELBOURNE-RADIO: Courses aligned by ground check only. (8-24)

**MELBOURNE SEAPLANE BASE-No svcg. (5-15)

★MIAMI-RADIO: VHF voice fac comm at communication stn Aug 30. Transmits on and gds 116.1 mcs cont. Stn class: SBRAZ-VDT. These data rc'd too late for inclusion in "Air Navigation Radio Aids" or "Flgt Planning Charts".

**MIAMI AVIATION CENTER SEAPLANE BASE (MIAMI)-New base. 8-1/2 mi N. Lat 25-53, long. 80-1[illegible] Elev sea level. Landing area unlimited. 80 oct. (Miami chart). (7-22). Info unverified by CAA.

MIAMI INTERNATIONAL ARPT-AAF (MIAMI)-Domestic trans acft must taxi to Army Terminal Bldg on north side fld upon landing and prior to take-off and register with ramp supervisor. Scheduled air carriers and International Acft requiring immigration and customs service use 36th St. Terminal Bldg. Non-scheduled trans acft requiring customs service advise twr prior to landing. Use rnwys only. Obst lgts inop atop Seaboard Railway Shops S bndry of N fld. NE/SW rnwy closed. Equip. on fld. Closed to trans Naval acft, use NAS in vicinity. Hangar under const E end N portion of fld approx 500' S of center

line and 600' E of the E end of the northernmost E/W rnwy now 28' high, 35' elevator erected to handle const material, lgtd ngts. Hangar unlgtd - to be lgtd upon completion. Taxiway immideately in front of 36th St. Terminal Bldg connecting northernmost E/W rnwy and E/W taxiway barricaded at SE and NW ends, marked. Taxiway under const on N side E end of E/W rnwy. SE taxiway in center fld closed - equip. this area, marked. SE taxiway connecting E/W rnwy and taxiway along S bndry of fld closed, marked by flares. (8-20).

MIAMI NAS-Acft warned to remain on N leg Miami Range for distance of 25 mi N of range sta when passing Miami NAS. Stay well clear of NW corner fld as this is a fighter training break up area. Acft practicing touch and go landings during hrs of darkness. (5-2) Closed from 30 minutes past sunset to 0700 daily. (4-17)

**MIDGET SEAPLANE BASE (WEST PALM BEACH)-80,87 oct. (5-15)

MORRISON FIELD (WEST PALM BEACH)-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON OFF. BUS. OR IN EMERG. Only 73,100 oct. N/S rnwy avail. days only. Air Rescue Service acft will be cleared into this fld. (8-9)

**MUNICIPAL SEAPLANE BASE (LAKELAND)-New base. Adj NE on E side arpt. Lat 28-04, long. 81-56. Elev 145'. Landing area unlimited. 80 oct. (Orlando chart). (7-22). Info unverified by CAA.

**MUNICIPAL SEAPLANE BASE (LAKE WORTH)-New base. Adj city. Lat 26-36, long. 80-03. Elev sea level. Landing area unlimited. Obsts E. 80 oct; ramp, beach. (Miami chart). (7-22). Info unverified by CAA.

NORTH POMPANO OLF (POMPANO)-CLOSED (no facs). (1-24)

**ORLANDO AAB-ORLANDO ARPT-Only 100 oct avail, mil acft. (8-21). Closed to acft in excess of 50,000 lbs exp for use alternate destination by scheduled airline carriers. Northernmost E/W, westernmost N/S rnwys closed. No 91 oct. No Army opers, weather facs, transportation, svcg or mntnc 1600 to 0730. No Army mntnc Sats or Suns. Stn WORZ erecting three 333' twrs approx 7 mi W (265°) true. One 333' twr completed, lgtd. (8-20) Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon. thru Fri. (7-1)

**ORLANDO AVIATION COUNTRY CLUB SEAPLANE BASE (ORLANDO)-New base. 5 mi N. Lat 28-36, long. 81-22. Elev 90'. Landing area 6000'. 80 oct; ramp; beach. (Orlando chart). (7-22). Info unverified by CAA.

**PAGE FIELD (FT. MYERS)-Correct elev 18'. (Miami chart). (8-7) NE/SW, NW/SE rnwy lgts and tetrahedron inop. Obsts S side fld, lgtd. Use E/W rnwy only at ngt. Twr obst lgts inop. (8-1)

**PENSACOLA ARPT-Correct elev 121'. (Mobile chart). (8-23). These data rc'd too late for inclusion on Flgt Planning charts. Exten Navy train. throughout area. Join pattern at 500' left turn and circle. Use rnwys only. Taxi to right on nearest avail. taxi strip. Opers and svcg. lctd brick hangar. (7-4)

PENSACOLA NAS CHEVALIER FIELD (PENSACOLA)-Avail. days only. Ngt landings should be made at NAS Corry Fld. Permission may be obtained to land at Saufley Fld or North Whiting Fld. Multi-engine acft requiring rnwys in excess of 2500' should land at NAS Corry Fld, bear. 341° NNW. Disposition Delivery Acft should land at NAAS Ellyson Fld. Pilots desiring to land at Chevalier Fld should contact Pensacola Navy twr before entering traffic pattern. Const equip. on fld until approx Sept 25. Ctc twr for landing instructions. (8-22)

★PETER O. KNIGHT FLD (TAMPA)-RADIO: Municipal twr now operates 1200 to 1900 daily. (9-1) FLD: Two 101' derricks 1000' and 1390' E of E seawall, lgtd. Equip. on fld days. Fld open to radio-receiver-equipped acft tuned to twr freq. Sodded areas unsafe heavy acft. Rnwy lgts avail. on 1 hrs notice between 1900 and sunrise. (5-11)

PINECASTLE AAF-RADIO: Army ILS (SCS-51) temp inop except for lclzr. (7-23). FLD: Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon. thru Fri. (7-1) Fld avail. 0700 to 1700; other hrs on req. Req pilots land at Orlando AAB if not on off. bus. this sta. No 91 [illegible]. (4-22)

[redacted] COUNTY SEAPLANE BASE (ST. PETERSBURG)-New base. 11 mi NNW; adj arpt Lat 27-54, long. 82-41. Elev sea level. Landing area unlimited. 80 oct. (Miami chart). (7-22). Info unverified by CAA.

RICHMOND NAS-LTA-Use in emerg only (caretaker status - no facs).

RIDDLE FIELD (CLEWISTON)-Lgt bar and rod steel mat not recommended for heavy acft. Twr operates only during scheduled flying. Unsafe areas not completely marked days, unmarked ngts. Inadequate bndry lgts, markers. Cloud flying practiced whenever clouds are broken to overcast during daylgt hrs in area bounded by lat 26-27 and lat 26-43, long. 80-50 and long. 81-27. Use rnwys only. Grass areas flooded most of summer. (7-27)

**RIVERSIDE SEAPLANE BASE (JACKSONVILLE)-New base. Adj city. Lat 30-19, long. 81-40. Elev 7'. Landing area unlimited. 80 oct; beach. (Jacksonville chart) (7-22). Info unverified by CAA.

RUSSELL-RADIO: Navy range temp inop. (10-24)

ST. AUGUSTINE AIRPORT-Beacon, bndry lgts inop. (7-30)

STENGEL FIELD (GAINESVILLE)-Equip. on fld, marked. (5-24)

**TAMIAMI ARPT (MIAMI)-New fld. 12 mi W. 2 rnwys: 3500 x 100' NW/SE, 2750 x 75' E/W. 30,91 oct, minor engine and acft repairs. No sto. (Miami chart). (8-14). Info unverified by CAA.

TAYLOR FIELD (OCALA)-Use rnwys only. (5-8)

**TITUSVILLE SEAPLANE BASE-New base. Adj NE. Lat 28-37, long. 80-45. Elev sea level. Landing area unlimited. 73 oct; 80 oct on req. (Miami chart). (7-22). Info unverified by CAA.

VERO BEACH-Blasting of ground structure will be in progress thru Nov. 15, on North Island in an area lying between the Atlantic Ocean and Indian River extending 7 mi S from a line due E of Vero Beach. Dangerous to low flying planes. (8-3)

VERO BEACH ARPT-All lgts inop. (8-22)

WHITING FIELD NAS-NORTH (MILTON)-Avoid fld area under 2000'. 6" sloping curb at edges all rnwys. Tetrahedron indicates rnwy in use and not wind direction. NE/SW rnwy lgts inop. (3-2)

**WITHAM OLF (STUART)-No longer assigned to navy. Will hereafter be carried as Witham Arpt. (Miami chart). (7-11)

GEORGIA

ALBANY AIRPORT-Use rnwys only. (7-22)

ATHENS AIRPORT-Bndry, beacon lgts inop. (8-10)

ATLANTA AIRPORT-RADIO: Middle marker of CAA ILS located 3600' SE of SE end NW/SE rnwy, keyed with alternate dots and dashes will be comm soon. Outer marker will be relocated 4.5 mi SE of SE end NW/SE rnwy. Localizer temp inop. (7-25). FLD: Twrs of Radio Sta WSB approx 12 mi NE being dismantled. Will be lgtd furing dismantling. (7-25) Const, engineers on fld intermittently. Use rnwys ngts. Closed to all HB and VHB acft. Army temp inactive - civil. facs. Trans army acft use Marietta AAF. (8-3)

ATLANTA NAS-Acft on IFR between 2000 and 0700 clear thru A.T.C. and proceed to Atlanta Arpt. Const equip. along all rnwys. (5-10)

AUGUSTA-Three 310' twrs, one 420' twr being const by Radio Stn WGAC approx 5 mi N Augusta Range Stn, obst lgtd. (7-18)

**BAINBRIDGE ARPT-80,91 oct, sto, major engine and acft repairs. (8-14)

CHRISS FIELD NO. 3 (VALDOSTA)-CLOSED. Not used as flying fld. (11-13)

**BYERS ARPT (BAINBRIDGE)-No svcg. (8-14) CLOSED (high weeds). (8-14)

BUSH FIELD (AUGUSTA)-WAC planes parked entire fld off rnwys. Use rnwys only. No lgts or svcg. Close flight plans with Bush Twr. (4-23)

CAMP STEWART AAF (HINESVILLE)-Temp inactive-no facs. (See Special Notice re

GEORGIA-Continued

use). Cattle on fld. (12-17)
CHATHAM AAF (SAVANNAH)-Temp inactive. No facs. (See Special Notice re use). Rot. beacon inop. (5-22)
COCHRAN FIELD (MACON)-Temp inactive. No facs. (See Special Notice re use). Use rnwys, taxi strips only. (12-5)
**COMMODORE DECATUR ARPT (BAINBRIDGE)-80 oct. (8-14)
COOK COUNTY ARPT (ADEL)-Lgts inop. (5-17)
DANIEL FIELD (AUGUSTA)-RADIO: CAA twr will be comm Sept 5. Will operate 0800 to 2400.
FAIRBURN AIRPORT-Arpt information not yet verified by CAA. (10-19)
GLYNCO NAF-LTA-RADIO: Navy twr temp closed, operates on call on one hrs notice. FLD: Landing mat being repaired. (6-12)
HINESVILLE AIRPORT-Equip. on fld and in approach zones intermittently. (2-26)
**HUNTER FIELD (SAVANNAH)-Beacon, contact, obst lgts, 80,91 oct, sto, major engine and acft repairs. (Savannah chart). (8-21). Sharp incline of approx 20', 370' on approach to Rnwy 23L. 120' twr lgtd ngts between Rnwys 10 and 15 outside outer perimeter. (7-13)
KINGS AIRPORT (MILLEDGEVILLE)-Soft after rainy weather. (7-22)
LA GRANGE AIRPORT-Hvy acft use rnwys, taxiways only (grass areas soft) (12-27)
LAWSON FIELD (COLUMBUS)-MAKE ALL APPROACHES TO LAWSON FLD W OF CHATTAHOOCHEE RIVER, HIGH TRAJECTORY FIRING E, SE OF LANDING AREA DAY, NGT. Pilots may be required to make cross-wind landings. Use rnwys only. 4 lgtd parachute jumping twrs E of fld; mass parachute jumping from all alts under 1600' scattered thru area 10 mi sq, S of fld. Drainage ditch with unlgtd fence between ends Rnwys 2 and 32. Traffic pattern - right hand on Rnwys 14, 20, 27, left hand on 2, 9, 32. (6-25)
LE TOURNEAU AIRPORT (TOCCOA)-NNE/SSW strip closed (const). Avail. only with extreme caution, 1000' extension being added to W end E/W strip. (8-6)
MARIETTA AAF-No 73 oct. Ltd sto. Facs avail. 0800 to 2000. (8-10)
MOODY FIELD (VALDOSTA)-Temp inactive. No facs. (See Special Notice re use). 2 obst lgts atop Radio Stn WGOV inop.
NORTHSIDE AIRPORT (MOULTRIE)-NE/SW strip closed.
ROBINS FIELD (WARNER ROBINS)-No 91 oct. (7-17)
ROCKY FORD FIELD NO. 1 (VALDOSTA)-CLOSED TO ALL HEAVY ACFT. (7-18)
ST. SIMONS ISLAND NAS-Avail. only to mil acft and scheduled airlines sunrise to sunset. Closed ngts except on prior req. Only 100 oct avail. (8-3)
SOUTHER FIELD (AMERICUS)-Use strips only (parked acft).
TURNER FIELD (ALBANY)-RADIO: Army H fac and twr temp inop. (8-26) FLD: Use rnwys only. Rnwys 4C, 9R, 14C, 18L closed. Temp inactive. No facs. (See Special Notice re use). (8-28)
VADA ARPT (BAINBRIDGE)-CLOSED (cattle on fld). (8-14)
VIDALIA-LYONS AIRFIELD (VIDALIA)-All flight plans to be handled thru Turner Fld. Temp inactive. No facs. (See Special Notice re use). (4-5)

IDAHO

BENNETT FLIGHT STRIP (ANDERSON DAM)-Avail. for emerg use only. (5-7)
BURLEY AIRPORT-Use rnwys only (rough, high vegetation). Soft spots on taxi strips. (7-19)
COEUR D'ALENE AIR TERMINAL-Equip. on fld days. (5-10)
GOODING AIRPORT, new-Use rnwys only - sod unsafe (erosion). (6-20)
GOWEN FIELD (BOISE)-Temp inactive. No facs. (See Special Notice re use). Use rnwys, taxi strips only - shoulders soft. (7-18)
IDAHO COUNTY AIRPORT (GRANGEVILLE)-NE/SW strip under const. (5-14)
IDAHO FALLS AIRPORT-Use rnwys for taxiing - caution, all acft in landings and take-offs watch for taxiing acft. Equip. in area E/W taxiway days. (8-9)
MOUNTAIN HOME AAF-Temp inactive. No facs. (See Special Notice re use). N/S rnwy closed. Gravel area W edge approx 20' square soft.

IDAHO-Continued

POCATELLO AIRPORT-6' ceilometer projector in center of grass strip running parallel with Rnwy 5-23 and approx 75' S of rnwy at a point 500' W of taxi strip that intercepts Rnwy 29, lgtd. Equip. on fld days. (6-29)
POCATELLO AAF-Temp inactive. No facs. (See Special Notice re use).
REXBURG AIRPORT-W side N/S strip at N end washed out. (7-26)

ILLINOIS

**ASHBURN ARPT (CHICAGO)-73, 80 oct. (5-17). Avail. lgt acft under 2000 lbs only. Landing fee for heavier acft $2.00 and up. (7-25)
**ASHLAND AVENUE ARPT (CHICAGO HEIGHTS)-4 strips: 2900' E/W, 1800' NE/SW; both 300' wide; 1200 x 800' N/S; 1800 x 200' N/S. 80,91 oct, sto, major acft and engine repairs. (6-28)
**BEARDSTOWN ARPT-New fld. 1-1/2 mi SE; RR N, W. Lat 39-59-10, long. 90-24-20. 2 strips: 1800 x 300' N/S, E/W. 80 oct, sto. (Kansas City chart). (8-27). Info unverified by CAA. These data rc'd too late for inclusion in Directory of Arpts and Flight Planning Charts.
**BRADFORD (Site 29, Kansas City-Chicago)-Ends E/W strip mrkd with 3 green range lgts. Ends N/S rnwy mrkd with 2 green range lgts. (8-9)
CARTHAGE AIRPORT-NE/SW, E/W strips unsafe when wet. (4-13)
CHANUTE FIELD (RANTOUL)-Ltd parking. (4-25)
CHARLESTON AIRPORT-Left traffic pattern when wind is from the N or W; right traffic when wind is from the S or E. Unsafe heavy acft (soft). NE/SW rnwy closed (const). (5-20)
**CHICAGO ARPT-73,80,91 oct; 100 oct for Army. (5-2) No JP-1 fuel. (8-23). NE/SW rnwy closed, unlgtd (parking area). Closed to trans mil acft xcp on off. bus. or in emerg. No Army facs. Closed to trans Navy acft xcp on off. bus. or acft containing officers of Flag Rank. Pilots must register in Terminal Bldg upon arvl and check out on dptr. Floodlgts avail. on req. Following landing fees in effect fo all non-scheduled revenue producing acft; 30 cents per 1000 lbs or fraction thereof of the gross weight of the acft. Minimum charge $2.00. Fee payable at Arpt Supt's Office before take-off. All numerals and letters on Rnwys 13L and 13R lgtd ngts. Hangar under const N side fld just E of NW corner. Ctn when taxiing. Covered ditch adj Rnwys 27L and 31R, mrkd, lgtd. Ditch on E side Rnwy 36R, mrkd, lgtd. (8-20)
CHICAGO-HARWOOD AIRPORT (LANSING)-Surplus Acft Sales Center - parked acft.
CHICAGO-ORCHARD ARPT (CHICAGO)-Closed to trans mil acft xcp on off. bus. this stn or in emerg. No facs. (8-28)
CYRIL LEBERT AIRPORT (LEBANON)-Left hand traffic pattern at 400'. Watch for Scott Fld traffic. (6-22)
HARRISBURG ARPT (HARRISBURG)-ABANDONED. (Nashville chart). (8-20)
**MUDDY ARPT (MUDDY)-New fld. Adj E. Elev 400'. 4 strips: 2500' N/S, 2400' E/W, 2700' NW/SE, 2000' NE/SW, all 300' wide. 80 oct. (Nashville chart). (8-27) Info unverified by CAA. These data rc'd too late for inclusion on Flight Planning Charts.
GEORGE FIELD (LAWRENCEVILLE)-CLOSED (no facs). (5-15)
GLENVIEW NAS-Prior approval required all acft expecting to RON except off. bus. regularly scheduled NATS or NATSFWS flights. Equip. on approaches. Non-radio equipped acft land on mats only. Closed ngts except in emerg or by prior arrangement. (7-8)
INTERSTATE AIRPORT (DE KALB)-CLOSED. (5-11)
**JOLIET AIRPORT-SITE 22, ST. LOUIS-CHICAGO-Flood lgts on prior req after 2400, charge $2.50. (8-29) Emerg fueling and acft svcg avail. 2400 to 0800 on req. (7-18)
**LEWIS-LOCKPORT ARPT (LOCKPORT)-4 strips: 2300' N/S, 2400' E/W, 2000' NE/SW, 2600' NW/SE, all 100' wide. 80, 91 oct. (6-28)

LINDLE RUFF FLYING SCHOOL (BEARDSTOWN)-400' from S end N/S strip, 300' from end E/W strip and fld, soft during heavy rains (marked). (7-15)
MARION AIRPORT-NW/SE, NE/SW strips under const. (6-27)
MOLINE AIRPORT-75' gravel loading mast, 1500' W and 500' S of center line of E/W rnwy guyed with cables, lgtd. 30' gravel plant, 422' due W of SW end NE/SW rnwy, lgtd. Pwr shovels with high boom near both plants. Equip. NW portion fld days. (8-9)
MURPHYSBORO AIRPORT-Arpt information not yet verified by CAA. (10-10)
**ORCHARD PLACE ARPT (CHICAGO)-Name changed to Chicago-Orchard Arpt.(Chicago chart)These data rec'd too late for inclusion on Flight Planning Charts.
PEORIA AIRPORT-Const equip. on fld days. Use rnwys only. Rnwy obsts marked. Concrete pads for cone obst lgts 90' from rnwy ends. Yellow flags over coils of cable. Concrete pads along both sides E/W and NE/SW rnwys 25' from rnwy edges. (7-14)
**PRINCETON ARPT-New fld. 3 mi N;creek N. Lat 41-25, long 89-28. 4 strips:1700' N/S; 1250' E/W; 1800' NW/SE; 1600' NE/SW, all 300' wide. 80 oct, sto. (Chicago chart) (7-22). Info unverified by CAA.
PROSPERI AIRPORT (TINLEY PARK)-Use rnwys only. (7-5)
QUINCY-SPECIAL NOTICE-New arpt being cont about 12 mi E and just N of St.Rwy #104. Gives the impression from the air that it is avail. for partial use. Because of const equip. do not use except in extreme emerg.
QUINCY AIRPORT-Extreme W end E/W and NW end NW/SE strips under const. (7-30)
RADIO: Range flight-checked Aug 21, courses correctly aligned.
RUBINKAM ARPT (HARVEY)-Fld will be closed 1000-1600 Sept 21, xcp for 10 min periods after each hr. (Air Show). (8-20) Use only area W of trench. (4-26)
ST. CHARLES AIRPORT-CLOSED. (4-2)
ST. DAVID ARPT-Closed to all cross country acft. No svcg avail. N/S strip closed. New arpt under const 6 mi N. (6-13)
**SCHERER ARPT (ROANOKE)-ABANDONED. Lctd 1-3/4 mi E. (8-23)
**SMITH AVIATION FLD (ST. ELMO)-N/S strip extended to 2600' (8-27) Info unverified by CAA. These data rec'd too late for inclusion in Directory of Arpts and Flight Planning Charts. Use N/S rnwy only. Equip on fld. (7-31)
SPRINGFIELD AIRPORT-Fld and strips soft after heavy rains. Unsafe heavy acft when soft. Closed ngts. (7-18)
**TAYLORVILLE ARPT-New fld. 1 mi SW. Lat 39-31-30, long. 89-19-00. 2 strips: 2640 x 500' N/S; 2640 x 300' E/W. 80 oct. (Cincinnati chart) (8-20) Info. unverified by CAA.
UNIVERSITY OF ILLINOIS (CHAMPAIGN)-Air Show Sept 22- fld closed from 1000-1500, except 10 mins on the hr. Heavy traffic Sept 19, 20. (8-28)
VANDALIA MUN. AIRPORT-Use only N/S rnwy after heavy rains. (5-10)
**WASHINGTON PARK ARPT (HOMEWOOD)-80,91 oct. (6-28)
WHITE COUNTY AIRPORT (CARMI)-NE/SW strip rough. Low wires S end fld. (7-22)
YORK TOWNSHIP AIRPORT (LOMBARD)-Equip. on fld. (8-9)
WAUKEGAN AIRPORT-NW corner NW/SE rnwy, W end E/W rnwy unusable, flagged.(8-16)

INDIANA

ATTERBURY AAF (COLUMBUS)-Temp inactive-no facs. (See Special Notice re use).
AUBURN AIRPORT-Use strips only. Kerosene lanterns supplemented with battery lgts avail. in emerg. (5-10)
★BAER FLD (FORT WAYNE)-RADIO: Army ILS (CAA type) localizer ident "I".Middle marker keyed six dots per sec, outer marker keyed two dashes per sec.FLD: Antenna pole obst lgts removed, poles unlgtd. New poles will be erected 3.5 mi SW and lgtd. (5-1) Temp inactive. No facs. (See Special Notice re use)
BENDIX FLD (SOUTH BEND)-Army temp inactive - civil. facs. Equip on fld days. N triangle closed. (8-15)
**BLOOMINGTON ARPT-3 strips: 4000' NE/SW, 3100' NW/SE both 500' wide; 2600' N/S (8-7) Rnwy info. unverified by CAA. Fresh grading soft when wet. (8-7)

BRIGHTWOOD ARPT (INDIANAPOLIS)-Fld under const. Pilots observe tetrahedron for rnwy direction. Taxi on well marked taxi strips and dead rnwys. Information not yet verified by CAA. (4-10)
CHAIN LAKES ARPT (SOUTH BEND)-Avail. all acft up to 6000 lbs. Use strips only. (5-23)
CRAWFORDSVILLE AIRPORT-Rnwy information unverified by CAA. (10-8)
**ELWOOD ARPT-New fld. 1-4/5 mi SSE;hwy NE. Lat 40-15, long. 85-49. Elev 850'. Longest strip: 2300'. 80 oct., sto.,minor engine and acft repairs. (Cincinnati chart) (8-2)Info. unverified by CAA.
★EVANSVILLE ARPT-RADIO: CAA twr now transmits on 278 kcs, 118.5 mcs. Ods 3105 4495,6210,3117.5 kcs, 126.18,118.5,131.9 mcs. (8-30) These data rec'd too late for inclusion in "Air Navigation Radio Aids" or "Flgt Planning Charts".
EVANSVILLE AIRPORT, old-Use rnwys only. Equip on fld days. (6-17)
FORT WAYNE-RADIO: Range will be decomm soon. Fac will be relocated at lat 40-56-20, long. 85-15-00 serving Baer Field. Freq 251 kcs. Ident "FW" (.. -. .—) Courses: 51°,146°,231°,326°. Bear. and dist, sta to Baer Fld: 51°, 3.5 mi. Mag. var: 0. Control and voice facs of relocated fac will continue temp from Smith Field. (6-8)
**KAY ARPT(BEDFORD)-Name changed to Sky Haven Arpt. 1 rnwy 3600' NE/SW; 2 [illegible] 3000' E/W, 1400' N/S. Low pole line E,S. 80,91 oct., sto., minor acft and engine repairs. (8-27) Info unverified by CAA. These data rec'd too late for inclusion on Fgt Planning Charts. Use rnwys only - shoulders soft. Left traffic pattern. Const areas marked. (8-27)
**HOSDREG ARPT (HUNTINGTON)-Name changed to Huntington County Arpt.(Chicago chart)(8-23)
HULMAN FIELD (TERRE HAUTE)-Use rnwys only (sod erosion off rnwys).(8-28)
★INDIANAPOLIS-RADIO: Aug 20, SE course realigned to 339°. Range flight-checked and courses correctly aligned. Ground Controlled Approach Unit being operated by CAA on exper basis at Weir-Cook Municipal Arpt, between the hrs 0800 and 1600 Mon thru Fri. Unit aligned for approach from the SW on Rnwy 4. Transmits on 212 kcs, 126.18 mcs, receives on 3105,4495,3117.5,6210 kcs, 126.13 mcs. Pilot desiring to make practice runs should make arrangements thru Indianapolis twr, Indianapolis Radio or airline ground sta at Indianapolis. All flights must be ctc flight rules prior to starting GCA runs and must remain CFR throughout approach. No run should be made in hooded cockpit unless accompanied by Safety pilot. 75 mcs boundary marker using keyed 3000 cycle tone, operating intermittently at SW boundary of arpt. Exper localizer on 108.3 mcs operating intermittently SW end NE/SW rnwy. Exper compass locator at outer marker. Freq 219 kcs. Ident "ID" Exper FM operating occasionally 10 mi SW fld on localizer course, modulation 3100 cycles, keyed "U". Exper radio range operating intermittently at Avon, Ind, 7 mi NW of arpt on 172 and 194 kcs. (8-9)
INDIANAPOLIS AIRPORT-Heavy acft use rnwys only. Const around N side fld and parking ramp. No crash equip. Mil pilots should register with registrar in Admin Bldg Lobby, trans acft must register at City desk in Terminal Bldg Lobby. Rnwy 18L-36R closed. Exper Opers: Approach lgt sys on SW approach lane;bndry lgts SW corner, all operating intermittently. Exper rnwy lgts 2-1/2' high along both sides NE/SW rnwy. Exper flights of all types in all weather conditions. 25' pole outside Bndry 500' W of Rnwy 18; 2 bldgs and 22' masts 400' off center line near SW end NE/SW rnwy. 65' twr 10' N CAA hangar; truck and 20' equip 400' NW end NW/SE rnwy 500' W of rnwy center line; truck 20' high NE corner at bndry 500' NW of NE/SW rnwy, all lgtd ngts. 5 lgtd 131' twrs 6 mi NW. Tetrahedron being installed in triangle between NE/SW, NW/SE and E/W rnwys. 10' bldg at middle of W bndry,lgtd.(8-2)
**KINGMAN FLYING SERVICE ARPT (KINGMAN)-New fld. 1/2 mi E;hwy N. Elev 700'. 2 strips: 2640 x 200' N/S, E/W. (Cincinnati chart)(7-24) Info unverified by CAA.

INDIANA-Continued

LAFAYETTE-RADIO: 116.1 mc receiver temp inop. (7-17)
LA PORTE CITY ARPT (LA PORTE)-NE/SW strip closed (const), unlgtd. (3-14)
MADISON AAF-JEFFERSON PROVING GROUNDS (MADISON)-CLOSED TO ALL ACFT.
McCOMB AIRPORT (DECATUR)-Closed when wet. (5-10)
MICHIGAN CITY AIRPORT-Use only marked strips, taxiways - bal fld unsuitable for landing and taxiing. (7-27)
MONTICELLO AIRPORT-Arpt information not yet verified by CAA. (3-30)
MORGANTOWN-RADIO: FM on S course of Indianapolis Range will remain in oper on exper basis until Nov 1.
MUNCIE AIRPORT-Rnwy under const - closed. Closed ngts. (7-12)
**MYERS ARPT (FT. WAYNE)-New fld. 4 mi SE. 3 strips: 2400' N/S; 2100' NE/SW; 2200' NW/SE, all 200' wide. 80,91 oct, sto. Pwr lines NE. (Chicago chart) (7-22) Info. unverified by CAA.
NEW CASTLE WESTERN AIRPORT (NEW CASTLE)-Arpt information unverified by CAA. (9-28)
OWEN AIRPORT (WOODESVILLE)-Arpt information not yet verified by CAA.(9-28)
PERU AIRPORT-Confine all opers to rnwys unless strong cross wind conditions exist. (5-20)
PLYMOUTH AIRPORT-E/W strip avail. NNW/SSE strip avail. with etn (const)(7-3)
PURDUE UNIVERSITY AIRPORT (LAFAYETTE)-Due to heavy local traffic, all trans acft should not turn in middle of fld after landing, but continue to taxi straight to end of fld then taxi to within 100' of bndry to hangar. Scattered pools of water on SW end NE/SW rnwy in wet weather. (5-22)
SOUTH BEND-RADIO: VHF voice fac will be comm at communication stn about Sept 3. Will transmit on and gd 116.1 mcs. cont. Stn class will be: SBMRAZ-VDT
STARKE COUNTY AIRPORT (KNOX)-N/S strip soft. (7-25)
STOUT FIELD (INDIANAPOLIS)-Temp inactive. No facs. (See Special Notice re use)
WALESBORO FIELD (SEYMOUR)-Use rnwys only. Lgts inop. (5-20)
WHITTENBERGER ARPT (WABASH)-Use right traffic in landing S or W;left in landing E or N. No-wind conditions land to W. (8-16)

IOWA

AUDUBON AIRWAYS AIRPORT (AUDUBON)-Fld rough.
**CANFIELD ARPT (WATERLOO)-4 strips: 3230' N/S, 2482' E/W, 3100' NW/SE, 2475' NE/SW, all 400' wide. (5-22)
CEDAR RAPIDS AIRPORT-Use rnwys, taxi strips only. (6-24)
CHAPMAN FIELD (WATERLOO)-Beacon, bndry,obst lgts inop. Soft in wet weather. (7-26)
**CHARITON CIVIL AIR PATROL FLD (CHARITON)-80 oct. (5-20)
**CHEROKEE ARPT-1 mi S;hwy E;RR W,S. Lat 42-44, long. 95-34. Elev 1218'. 3 strips: 1320' NW/SE, 1900' NE/SW, 1320' N/S, all 100' wide. 80 oct.(4-17)
**CLERMONT ARPT-3 strips: 1150' NE/SW, 1500' NW/SE, both 150' wide. 2075 x 225' NNW/SSE. 80 oct, sto, maj. engine and acft repairs. (5-23)
COUNCIL BLUFFS (Site O, Omaha-Chicago)-Site will be discont and relctd soon 1-1/4 mi E of the E end of the E/W rnwy at Omaha Arpt, Nebr. (6-20)
CRAM FIELD (DAVENPORT)-Const. Fld rough, equip. on fld. (3-21)
DES MOINES ARPT-Fld under const. Entire area off rnwys E of N/S rnwy, NW/SE rnwy, E/W taxi strip closed. Use rnwys only. Equip on fld. Mil acft report to Army hangar. (8-30)
**EMMERTS ARPT (ELDORA)-3 strips: 3200' N/S, NNW/SSE, both 300' wide. 2000 x 300' NE/SW. (5-24)
**GOODRICH & GROSS ARPT (STRAWBERRY POINT)-4 strips: 1450' WNW/ESE, 1350' ENE/WSW, both 100' wide. 1900' N/S,E/W both 150' wide. (5-22)
HUNTER FIELD (CEDAR RAPIDS)-Use rnwys only. (6-22)
IOWA CITY ARPT-Avail days only. Use rnwys, taxi strips only. Sod adj rnwys, taxi strips freshly seeded, graded. (8-30)
**IOWA FALLS ARPT-80 oct, storage. (5-24)

IOWA-Continued

**MASON CITY ARPT-Three 45' antenna poles erected 300' SSE of Admin Bldg, obst lgtd. (8-4) Crew on SE end NW/SE rnwy 0800-1700. (8-22)
**NIEDERHAUSER AIRWAYS ARPT (GRINNELL)-80 oct, sto. (5-21)
**OTTUMWA ARPT-Equip. on fld. Only 73 oct avail. (7-25)
**SIOUX CITY ARPT-Minor acft and engine repairs. (8-28) 100 oct avail.mil acfts. (8-21) Blinding 20 to 30 million candle power ceilometer 1000' N of Admin Bldg. Facs avail. 0800-1700. (8-21)
**TATRO FLYING SERVICE ARPT (DECORAH)-80 oct, sto. (5-23)

KANSAS

ATKINSON AIRPORT (PITTSBURGH)-CLOSED (const). (8-15)
**ATWOOD ARPT-New fld. 3 mi N;hwy W. 4 strips: 2640' N/S,NE/SW,NW/SE; 2400' E/W 73 oct. (Salina chart)(8-13) Info. unverified by CAA.
BEECH AIRPORT (WICHITA)-Use rnwys only during damp weather. (7-1)
BLOSSER FIELD (CONCORDIA)-Equip. on fld intmtly. (7-13)
COFFEYVILLE AIRPORT-Use rnwys only. (5-29)
DODGE CITY AIRPORT-Blinding 25 million candlepower ceilometer projector installed 1000' NW of Admin Bldg. E/W rnwy closed. (7-30)
DODGE CITY AAF-Temp inactive. No facs. (See Special Notice re use).
DOWNS AIRPORT-When taking off to the S or E use right traffic. (6-15)
FAIRFAX FIELD (KANSAS CITY)-Use rnwys only. (3-12)
FORT RILEY-AA firing conducted immediately N of Marshall Range Sta.
GARDEN CITY AAF-Acft near rnwys and on ramp. Contact Garden City Radio for landing instructions ngts. Only N/S rnwy lgts avail. 100 oct avail only. Use extreme caution in ngt landings, taxiing. No svcg 1700-0800.(8-19)
GOODLAND AIRPORT-Rnwy sides soft. Use center of rnwys only. (6-22)
GREAT BEND AAF-Temp inactive. No facs. (See Special Notice re use).
HERINGTON AAF-Temp inactive. No facs. (See Special Notice re use).
HUTCHINSON MUN. AIRPORT-Heavy acft use rnwys only. (6-20)
HUTCHINSON NAS-Use rnwys only. N,S mats closed. (8-26)
INDEPENDENCE AAF-Only N/S rnwy near ramp avail. Closed ngts. (6-22)
LAWRENCE AIRPORT-Center fld, taxi areas unusable (soft). Rnwys usable dry weather only. (8-16)
**LARNINBURG ARPT (HOLTON)-1 strip: 2700' NW/SE. Elev 947'. Hi-lines N.(8-19) Info. unverified by CAA. These data rec'd too late for inclusion on Flgt Planning Charts.
LIBERAL AAF-Temp inactive. No facs. (See Special Notice re use).
LLOYD FIELD (FT. SCOTT)-Use in emerg only (vegetation). (6-24)
MARSHALL FIELD (FT. RILEY)-For AA firing see Ft. Riley, Kans. Use rnwys, taxi strips, ramps only. Soft shoulders off rnwys. Obst lgts inop.150' twr atop 1200' hill. (4-3)
**NEWTON OLF #2-WIRT FLD (NEWTON)-No longer assigned to navy. Will hereafter be carried as Wirt Fld. 1 rnwy 8000' N/S. 80,91 oct,minor acft and engine repairs. (Salina chart)(8-2)Rnwy info. unverified by CAA.
OLATHE NAS-Closed 1800 to 0800-flights desiring landing during these hrs must notify opers before 1600. (6-13)
OLATHE OLF NO. 2-Use in emerg only - no facs.
OLATHE OLF NO. 4-Use in emerg only - no facs.
OLATHE OLF NO. 7-Use in emerg only - no facs.
OLATHE OLF NO. 9-Use in emerg only - no facs.
**PHILIP BILLARD ARPT (TOPEKA)-Correct elev 879'. (Kansas City chart)(7-31)
PRATT AAF-Temp inactive. No facs. (See Special Notice re use).
SHERMAN FIELD (FT. LEAVENWORTH)-Left traffic on Strips 12,15; right traffic on strips 30,33. Use strips only. Strips soft when wet. 10' dike connects N end N/S strip. Closed to VHB type acft. (7-8)

KANSAS CONTINUED

★SMOKY HILL AAF (SALINA)-RADIO: Glide path comm on Army ILS (CAA type), transmitter located 1150' from approach end of rnwy on yellow side of localizer course, freq 333.8 mcs. Middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21). Army DF (HF) and (VHF) stas temp inop. (6-24) Army ILS (CAA type) temp inop. (6-25). FLD: Elev 1289'. (Salina chart) (8-2). E/W rnwy closed. (6-19).

TOPEKA-Inst flying radio range ngt, day. Call Topeka Radio at least 20 mi out before flying range.

**TOPEKA AAF-Correct elev 1073'. (Kansas City chart) (7-31).

★TOPEKA RADIO: Aug 30, VHF range comm at lat 39-07-18, long. 95-45-06. Freq. 108.7 mcs, ident "LO" Visual courses: 94°, 274°; aural courses: 184°, 4°. Var 11°E. Stn class: VARW. To late for inclusion on Flgt Planning Charts.

WALKER AAF (HAYS)-Temp inactive. No facs. (See Special Notice re use). Trucks on NW/SE rnwy. (5-23).

**WICHITA ARPT-50' pole N of Admin Bldg, lgtd. (8-27). Ctc lgts all rnwys under repair. Avoid taxiing over ctc lgts. Closed to trans acft without radio. Stay on concrete, sod unsafe. Equip on fld days. (8-27).

KENTUCKY

**BLUE GRASS FLD (LEXINGTON)-Only 80 oct. (4-17). Use rnwys only. (6-24).

**BOWMAN FLD (LOUISVILLE)-205' twrs Radio Sta WKLX erected 11½ mi SE (140°) true. Obst lgtd. (8-10). CLOSED TO B-26 AND AT-23 ACFT. Heavy acft use rnwys only. Army temp inactive - civil. facs. Trans mil acft use Godman Fld. (6-28).

**CAMPBELL AAF (HOPKINSVILLE)-Only 100 oct. (8-13). Opers, engineering closed 1700 to 0800. No 100 oct. (6-25).

GODMAN FIELD (FORT KNOX)-RADIO: Army range now operating reliably, maximum power only 25 watts. Multiples on S course about 15 mi out. (6-24). FLD: CLOSED TO ALL HEAVY AND VERY HEAVY BOMBARDMENT TYPE ACFT EXCEPT IN EMERG. Oper office open 0800 to 1700 for clearance purposes only. Ngt lighting facs avail. upon 12 hr prior notice. (3-24).

**PARIS ARPT-80 oct. (5-16).

STANDIFORD FIELD (LOUISVILLE)-Bndry, rnwy lgts inop. Tetrahedron unlgtd, free swinging. (5-25).

STURGIS AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys, taxiways only.

LOUISIANA

ALEXANDRIA AAF-Temp inactive. No facs. (See Special Notice re use).

★BARKSDALE FLD (SHREVEPORT)-RADIO: Army range class changed to SBMRAZ.(8-26). Army ILS (SCS-51) now operating as follows: Serves NW/SE rnwy with approach from NW. Localizer transmitter located 1800' SE of SE end NW/SE rnwy, freq 109.9 mcs. Mag heading for landing: 143°. Three marker beacons: inner marker, .25 mi; middle marker, .64 mi, keyed six dots per sec; outer marker, 4.35 mi, keyed two dashes per sec. Sys operates on req to twr. (8-21). AACS, ground to air sta temp inop. (3-25). Army ILS (CAA type) temp inop. (6-4). FLD: Liaison type acft land Rnwy 14R-32L. Exten training - heavy traffic. (7-22).

COTTON VALLEY AIRPORT-E/W strip closed. (11-20).

CROSS LAKE AIRPARK (SHREVEPORT)-CLOSED (const, equip. all strips). (4-29).

DE RIDDER AAB-Temp inactive. No facs. (See Special Notice re use).

EAST BATON ROUGE PARISH AIRPORT (BATON ROUGE)-Avoid SE corner fld, marked with white flags.

HOUMA NAS-LTA-Twr operates daylgt hrs on week days only for acft in connection with Bureau of Aeronautics Storage. Closed to all other acft except in emerg. No fuel. (7-22).

IBERIA PARISH AIRPORT (NEW IBERIA)-Use rnwys, taxi strips; sod shoulder parallel rnwy and taxi strips avail. lgt acft only. Rnwy lgts inop. (3-16).

LOUISIANA-Continued.

JENNINGS AIRPORT-Use strips only in wet weather. Smudge pots avail. on prior arrangements. Unlgtd pole lines S and E side fld. (5-17).

LAFAYETTE AIRPORT-Avail. days only. Use rnwys only. (7-4).

**LAKE CHARLES ARPT-3 strips: 2375 x 200' NW/SE, 2600 x 200' N/S, 1600 x 150' E/W. (8-29). These data rec'd too late for inclusion in Directory of Arpts and Flight Planning Charts.

LAKE CHARLES AAF-New type mercury arc 30 million candle power ceiling lgt installed sta WBAS. Operates during cloudy conditions: Pilots cautioned against looking directly into lgt. No 91 oct. (7-19).

**MERRYVILLE-Bombing and gunnery range S is now being used by Lake Charles AAF, Lake Charles, La.

MOISANT AIRPORT (NEW ORLEANS)-Use rnwys only ngts. Sod area 200' each side of rnwys avail. lgt acft days. Closed to all acft not equipped with two-way radio except in emerg. 171' steel derrick being erected approx 15 mi SSE in Lake Salvador - unlgtd. Rnwy, range, fld, bndry lgts inop.(8-6)

MONROE-RADIO: About Sept 12, range freq will be changed to 359 kcs.(8-29).

MONROE AIRPARK-Unsafe (soft). This data received too late for danger symbol.

NATCHITOCHES AIRPORT-Taxi to right. (4-23).

NEW ORLEANS AIRPORT-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. Obst lgts on S pole line inop. Equip on fld days. Non-radio equipped acft use extreme caution. Closed to all Army acft except primary basic and advanced (not including converted tactical type) trainers, utility cargo, C-46, C-47, series, C-60, C-64, liaison acft, helicopters and autogyros. (7-20).

NEW ORLEANS NAS-Avail. days only - use right hand traffic pattern. Closed to Naval acft exceeding 9000 lbs. (7-18).

RUSTON AIRPORT-Strips under const. Avail. lgt acft with ctn. (5-2)

SELMAN FIELD (MONROE)-Equip. on fld. (7-30).

**SHREVEPORT AIRPARK INC-2 strips: 4700' N/S, 2300' NE/SW. (8-24) These data rc'd too late for inclusion on Flgt Planning charts. Const on fld. Land S of new hangar. Equip on fld days. (6-18).

SHREVEPORT AIRPORT-Use rnwys only. Two 120' derricks 1/2 mi SW fld and one 120' derrick 1-1/4 mi S within approach zone N/S rnwy lgtd. (8-7).

TURNER FIELD (MONROE)-W half N/S strip soft - E half avail. (5-25).

MAINE

**AUGUSTA ARPT-80,91 oct, sto., maj acft and engine repairs.(8-23). Equip on fld days. Obst lgts atop poles 400' N of ENE/WSW rnwy inop. Unlgtd windsock atop E end hangar. Obs lgts inop on bldgs S side Admin Bldg. (8-29).

BANGOR-RADIO: Courses aligned by ground check only. (8-26).

★BRUNSWICK NAS-RADIO: Navy twr decomm. Sept. 1. FLD: Equip on fld. (8-29).

**DOUGLAS FLD (BRUNSWICK)-No sycg. (8-23) Right traffic in use when wind is from the S. (10-22)

DOW FIELD (BANGOR)-Temp inactive. No facs. (See Special Notice re use).' E/W rnwy closed. Use concrete portion fld only. Closed 1900 to 0700.(7-1).

**FARMINGTON ARPT-New fld. 4 mi N;rd W. Elev 465'. Longest strip 1900'. 80 oct, sto. (Lewiston chart)(8-23). Info. unverified by CAA.

★HOULTON-RADIO: Bear. and dist, sta to Houlton Arpt: 195°, 3.1 mi.(8-27).

HOULTON AIRPORT-Closed to all acft except scheduled airlines - all other acft land by prior permission from resident engineer, telephone #2211. (8-3).

**KENNEBUNK ARPT-New fld. 2 mi S; rd E. Elev 120'. Longest strip 2000'. 80 oct, sto. Trees S. (Boston chart) (8-23) Info. unverified by CAA.

LEWISTON-AUBURN AIRPORT (AUBURN)-Safety strips unsafe heavy acft - use rnwys. (7-20).

MILLINOCKET-RADIO: Auto. range monitor. sys temp inop. (5-10).

MILLINOCKET AIRPORT-NW/SE rnwy closed from intersection to NW end. (6-13).

MAINE-Continued.

NORRIDGEWOCK AIRPORT-CLOSED - use in emerg only.
**OLD TOWN ARPT-80 oct, sto., minor acft repairs. (8-23). Use rnwys only - safety strips rocky. Lgts inop. (7-10).
**PITTSTON AIRPORT-No svcg. (8-23).
PORTLAND AIRPORT-E/W rnwy closed ngts (contact lgts inop). Equip on fld hys. (6-21).
**PORT OF MAINE ARPT (S. PORTLAND)-80 oct, sto., minor acft repairs.(8-23).
PRESQUE ISLE AAF-RADIO: Army DF facs on standby status; services avail within 1/2 hr upon req over air to ground or point to point facs. (3-4).
RAYMOND'S AIRPORT (PHILLIPS)-New NW/SE rnwy parallel to old NW/SE rnwy under const. Equip on fld. (5-19).
**RIVERSIDE ARPT (BRUNSWICK)-New fld. 1 WNW; riv E. Elev 60'. Largest strip 2000' 80 oct, sto. (Boston chart) (8-23) Info. unverified by CAA.
**SANFORD ARPT-Beacon, range, etc, obst lgts. 80, 91 oct, sto., maj acft and engine repairs. (Boston chart) (8-23)
SCARBORO AIRPORT-Avail. lgt acft only. Use N/S strip. Land within flagged area. (7-22).
**STOVER ARPT (FREEPORT)-New fld. 4 mi NNW. Elev 200'. Longest strip:1200'. 80 oct, sto. (Boston chart) (8-23) Info. unverified by CAA.

MARYLAND

ANDREWS FIELD (CAMP SPRINGS)-No 91 oct. (5-31).
BALTIMORE-RADIO: Range flight-checked Aug 26, courses correctly aligned.
BALTIMORE MUN. AIRPORT-No crash equip. Use rnwys, taxi strips only, other areas soft. 2 cranes 20 and 40' high operating approx 250' S, SW of rnwys 32,27; 90' crane 800' N of N/S rnwy mrkd. 65' boom on floating derrick on Colgate Creek adj fld, marked; lowered and lgtd ngts. (8-27).
BELTSVILLE OLF-Closed to civil. acft except in emerg. (7-31).
EDGEWOOD ARSENAL FIELD-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG OR PRIOR PERMISSION FROM CO. Closed Sat and Sun. Operates Mon thru Fri 0800 to 1600. Approach fld N of Penn. RR. High alt bombing E and S. Stay on concrete. (2-20).
GLENBURNIE-TIPP AIRPORT (GLENBURNIE)-Avoid flagged area (equip.). (5-22).
HAGERSTOWN AIRPORT-Acft parked on hangar and factory apron. Acft parked along S bndry of fld just W of the N end of the N/S rnwy and N of the E end of the E/W rnwy. Use caution when landing and taking off in area off rnwys. N 200' E/W rnwy under const, bal rnwy avail. Bcn inop. (8-19).
**HOCKMAN FIELD (OCEAN CITY)-New fld. 7½ mi NE. Elev 15'. 3 strips: 2700' N/S 2500' NE/SW; 1900' NW/SE. 80, 91 oct. (Washington chart) (8-5) Info. unverified by CAA.
LEE ANNAPOLIS AIRPORT (ANNAPOLIS)-N/S rnwy closed (const). NE/SW rnwy and black-topped taxiway avail. E/W strip not suitable for acft heavier than twin-engined type. (5-21).
MEEKINS NECK-RADIO: FM signals on NE course of Patuxent River Navy range, weak. (1-12).
PATUXENT RIVER NAS-Taxi strips adj and parallel to Rnwy 13-31 between Rnwys 2-20 and 6-24 closed. Tetrahedron inop. Ditches, equip adj taxiway parallel to Rnwy 2-20. Open ditches adj Rnwy 9-27 markd, lgtd. (8-22).
PHILLIPS FIELD (ABERDEEN)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. Equip. on fld. Ltd svcg. No maintenance or RON. Closed 1200-1400, Suns. Rnwy 4-22 closed. Approach fld from N only, fly heading of 200° from Aberdeen to fld. Avoid area 1500 yds S of fld; firing up to alts of 25,000'. No 91 oct. Closed to very heavy type acft. (7-30).
SCHROM AIRPORT (GREENBELT)-SE end NW/SE rnwy under const, marked. Use only rnwy pavement and taxi strips. (3-16).
WEBSTER FIELD (PRIEST POINT)-Blue and white checkered flag flown on Opers Bldg during daylgt hrs when twr not manned. (2-6).

MASSACHUSETTS

BARNES AIRPORT (WESTFIELD)-Oper of arpt beacon days only indicates scheduled airlines in vicinity arpt. Acft proceed with caution when beacon ltd. Lgts avail. upon req by contacting Westfield Radio. (8-4).
**BERRLY CGAF-Open to commercial traffic. 80,90 oct. Tie-down svcg avail. Use in emerg only (caretaker status - no facs). (5-18)
**BEVERLY SEAPLANE BASE-Name changed to Jubilee Yacht Club Anchorage. Avail. May to October. (Boston chart) (5-15).
~~BOSTON-Fixed balloon being flown over business district at lat 42-20-45, long 71-03-20 at 500' MSL thru Sept. 10. Obst will be flood lgtd during hrs of darkness. (8-27).~~
BOSTON-RADIO: Soon, FM will be comm at Dedham, Mass located at lat 42-15-59, long. 71-10-07, on SW course 14.4 mi from range sta. Ident, two dots, three dashes (. . - - -) Bear. and dist, range sta to FM; 238°, 14.4 mi. When Dedham FM is comm, ident of Franklin, Mass FM will be changed to three dots, three dashes (. . . - - -) (8-6).
BROCKTON AIRPORT-E/W strip closed (const). N/S strip under const - avail. with ctn. (6-4).
BROOKFIELD AIRPORT-Rough and steep. (7-22).
CAPE COD BAY-Wire cable 35' above high tide extending between wooden twr and fish processing plant has been established approx 5 mi SE Provincetown at lat 42-01-00, long. 70-05-30, extending 1000' seaward from shore of Cape Cod Bay.
FALMOUTH AIRPORT-UNSAFE. (2-14).
GRAFTON AIRPORT (NORTH GRAFTON)-Avail. lgt acft. Heavy acft use caution. Avoid W and SE portions of fld. (6-15).
**GREAT BARRINGTON ARPT-80,91 oct. (8-4).
LAWRENCE AIRPORT-At ngt use rnwys for landing and taking off. (3-23).
**LOGAN ARPT (BOSTON)-Red obst lgts on E end of Governors Island now oper. (8-20). Closed to B-17 and all Army tricycle gear type acft - use Bedford AAF. Army temp inactive - civil. facs. Avail. only radio-equipped acft. Range lgts inop. Equip. on fld. New 5900' Rnwy 15-33 and Rnwy 4-22 avail. Ditches N side Rnwy 15-33 midway between ends, mrkd. Rnwy 16-34 closed. Mercury arc vertical beam NW end new temp NW/SE rnwy - used intmtly day, ngt. Floodlgts and wind tee removed. All pilots of acft except mil and scheduled air carriers must register at office of arpt manager. Equip. on perimeter of fld. NE 100' Rnwy 7-25 unsafe. (8-30).
**MARTHA'S VINEYARD ARPT (VINEYARD HAVEN)-80, 91 oct. storage. (8-13). Beacon, bndry, range, contact, obst lgts. All lgts prior req. (Boston chart)(8-21)
MYRICKS AIRPORT-Wires on S end N/S strip. (7-13).
OTIS MAG (FALMOUTH)-Use in emerg only (caretaker status - no facs).
PITTSFIELD AIRPORT-SITE 3B, ALBANY-BOSTON-Land according to wind sock.(8-27)
SOUTH WEYMOUTH NAF-50' lgtd antenna pole 2200' from S edge landing mat.(6-25).
SPRINGFIELD AIRPORT-Lgts inop. (6-24).
SQUANTUM NAS-Unlgtd 100' boom on lighter at bndry due W between Rnwys 2 and 8. Equip at bndry. (8-14).
STEVENS FIELD (NORTH ADAMS)-Avail. only lgt acft. (6-27).
WESTFIELD-RADIO: Range flight-checked Aug 21, courses correctly aligned.
★WESTOVER FIELD (CHICOPEE FALLS)-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21). Army ILS (SCS-51) now operating as follows: Serves NE/SW rnwy with approach from SW. Localizer transmitter located 2935' NE of NE end NE/SW rnwy, freq 109.5 mcs, ident "DOJ" (- . . - - - . - - -) Mag heading for landing: 59°. Glide path transmitter located 750' NE of SW end NE/SW rnwy 400' from centerline on yellow side of localizer course, freq 332.6 mcs. Three marker beacons: inner marker, .02 mi; middle marker, .72 mi, keyed

six dots per sec, outer marker, 4.42 mi; keyed two dashes per sec, all SW end NE/SW rnwy. Two compass locators: MMK (at middle marker site) on 201 kcs; OMK (at outer marker site) on 219 kcs. Sys operates cont. (8-21). Acft approaching Westover Fld under IFR conditions will proceed to Westfield range to hold. Upon receiving permission from Westover Fld Range acft will be cleared to Westover Range at 3000' to contact Westover Twr for permission to use standard letdown procedure as published in TO 08-15-3 with the following exceptions: Weather minimums at Westover Fld for trans acft under this procedure will be 2500' and 3 mi day and ngt. Procedure using Westfield Range and SCS-51 approach and Rnwy 6 at Westover will remain in effect only for Westover based acft, mat acft and contract carrier airline acft only. (8-22). FLD: No mntnc for trans mil acft; acft requiring svcg other than routing, gas and oil should not land this fld. (7-31).

MICHIGAN

ABRAMS AIRPORT (GRAND LEDGE)-Arpt info unverified by CAA. (10-3). Hangar being const. N/S, E/W strips newly sodded. (6-20).

**ADRIAN CITY ARPT (ADRIAN)-Correct elev 800', 80, 91 oct. (Chicago chart) 6-24) W side fld being graded (stakes and flags). Extreme ctn in landing all strips xcp NE/SW strip. (3-18).

**ALLEGAN ARPT-80 oct, sto, minor engine and acft repairs. (6-24).

**ALLEN'S ARPT (PONTIAC)-Only 80 oct. (6-25).

**ALMA ARPT-80 oct, storage, maj engine and acft repairs. (6-24).

ANN ARBOR AIRPORT-Use rnwys only. Taxi strips being widened, apron and parking areas being enlarged. Equip. on fld. (6-14).

**AU GRES ARPT-9/10 mi NNW;hwy S. Lat 44-03-15, long. 83-42-00. Elev 590'. 2 strips: 2000' NE/SW,NW/SE, both 250' wide.Poles-NE,SW.(Lake Huron chart) (6-24).

BAKER'S FIELD (PORT HURON)-Use strips only. (6-25).

**BIG BEAVER ARPT-80 oct, sto, minor engine and acft repairs. (8-15)

**BIG RAPIDS (Site 5, Grand Rapids-Traverse City)-Name changed to Mecosta County Airport-Site 5, Grand Rapids-Traverse City. 80, 91 oct, sto. minor engine and acft repairs. (Milwaukee chart) (6-24).

BISHOP AIRPORT (FLINT)-Use rnwys only when turf soft. Lgt acft use turf adj left side of concrete. Unmrkd acft parked on fld within 500' of bldgs. 160' water twr under const 1-1/4 mi NE (unmrkd). (8-15).

**CLAMEY PARK ARPT-80, 100 oct. (6-24).

**CREEDSVILLE AIRPARK-73 oct, minor engine and acft repairs. No sto. (6-24).

CAPITAL CITY AIRPORT (LANSING)-Use only rnwys and new N/S strip. Strip closed ngts. Equip on fld days- acft parked W side fld E of apron. (6-20)

**CARO ARPT-80 oct. (6-24).

**CASS COUNTY MEMORIAL ARPT (DOWAGIAC)-73, 80 oct. sto. (6-24).

**CLYDE WILKS ARPT (GAYLORD)-Name changed to Sky Harbor Arpt. 73,80 oct.(6-24)

DETROIT CITY ARPT-Equip. on landing area days. Inbound acft required to have radio receivers. (7-12).

DETROIT NAS-Use rnwys only. Approach fld from SW. Left traffic pattern [illegible], 1000' actual. Closed 2200 to 0700. Rnwy 9-27 closed. Equip on fld days. All rnwy lgts inop. (8-22).

**DOHERTY ARPT (CLARE)-1 mi NE. Lat 43-50, long. 84-45. Elev 840'. 4 strips: 1350' N/S, NE/SW, 2050' NW/SE, 1675' E/W, all 150' wide. Poles S, knoll N of N/S, NE corner rough. (Milwaukee chart) (6-24).

DR. HAINES FLYING FIELD (THREE RIVERS)-Sides and ends of strips soft. (5-10).

**ELSIE ARPT-Correct elev 730'. (Milwaukee chart) (6-24).

EMMIT COUNTY AIRPORT (PELLSTON)-Avail. all acft days. (5-3).

**ESCANABA ARPT-73,80 oct. (6-24).

FITCH H. BEACH ARPT (CHARLOTTE)-Caution on taxi strips. (5-10).

**FORD ARPT (DETROIT)-No lgts or svcg (Detroit chart) (8-15). CLOSED. Equip on fld. If necessary to use in emerg. use rnwys only. (8-14).

**GLADWIN ARPT-Only 80 oct. (8-27). Hangar under const NW corner of fld.(8-27

**GREATER DETROIT ARPT (ROSEVILLE)-Name changed to Roseville Arpt. (Detroit chart) (6-25).

**JACK BARSTOW ARPT (MIDLAND)-Correct elev 634'. 73,80 oct. (Milwaukee chart) (6-25).

JAMES CLEMENTS AIRPORT (BAY CITY)-Closed ngts. Heavy acft use rnwys only.

JEWETT AIRPORT (MASON)-Strips marked with yellow markers. Do not use plowed areas (rough). (7-3).

KELLOGG FIELD (BATTLE CREEK)-Equip. on fld. (6-2).

KINROSS AAF-Temp inactive. No facs. (See Special Notice re use).

**KRIST-PORT ARPT (FARMINGTON)-73, 80 oct. (6-24).

LAPEER AIRPORT-Hangars under const. Use strips only. E/W, N/S strips being widened. (7-13).

**LEGG ARPT (COLDWATER)-Correct elev 982'. Only 80 oct. (Chicago chart)(6-24)

LINDBERGH AIRPORT (KALAMAZOO)-Avail. ngts in emerg. All landings made in accordance with wind tee lotd midway between NW end NW/SE rnwy and N end N/S rnwy. (6-27).

MACKINAC COUNTY AIRPORT (ST IGNACE)-Trucks, equip on SE side fld. (6-7)

**MARKEY TOWNSHIP ARPT (PRUDENVILLE)-Name changed to Roscommon County Arpt. (Green Bay chart) (6-25).

McKINLEY AIRPORT (FRASER)-Closed except to lgt acft in dry weather, soft.

**MILAN ARPT-Correct elev 705'. (Detroit chart) (6-25).

**MONROE OLF (NEWPORT)-2 strips: 2600' NE/SW, 2900' NW/SE, both 500' wide. 73 oct, minor engine and acft repairs. No sto. Civil acft use this fld (Cleveland chart) (6-25) These data rc'd too late for inclusion on Flgt Planning Charts.

MOUNT PLEASANT AIRPORT-Strips soft in wet weather. (3-16).

MUSKEGON COUNTY AIRPORT (MUSKEGON)-Use rnwys only (rough). (4-26).

**NEWAYGO ARPT-Correct elev 785'. Only 30 oct. (Milwaukee chart) (6-25).

**OCEANA ARPT (ROTHBURY)-New fld. 1 mi W; lakes NE. Lat 43-30, long 86-22. 4 strips: 2640' N/S; 2970' E/W; 2000' NW/SE; 2400' NE/SW, all 300' wide. 80 oct, sto. (Milwaukee chart) (8-1) Info. unverified by CAA.

**ONAWAY ARPT-3/5 mi NNE;RR S. lat. 45-22-15, long. 84-13-30. Elev 770'. 2 strips: 2000' NE/SW, 2350' NW/SE, both 250' wide. Trees SW, NW, SE. (Green Bay chart) (6-25).

OSCODA AAF-Use rnwys, taxi strips only. Temp inactive. No facs. (See Special Notice re use).

OTSEGO COUNTY AIRPORT (GAYLORD)-Const - usable with ctn. (5-16)

**PETOSKEY-HARBOR SPRINGS ARPT (PETOSKEY)-4-1/2 mi NE; hwy E,N. lat. 45-25-30, long. 84-55-00. Elev 620'. 2 strips: 1700' N/S, 2000' E/W, both 200' wide. Pole line E,N. Ridge E,N, trees SW, NW,SE.(Green Bay chart)(6-25).

**PONTIAC ARPT- Only 80,91 oct. (6-25).

RACO AAF-Temp inactive. No facs. (See Special Notice re use).

ROMULUS AAF-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec outer marker keyed two dashes per sec. (8-21). ILS inop indefinitely. (6-27).

SAGINAW ARPT-Constructing new hangar S side of fld. (8-26).

ST. CLAIR COUNTY AIRPORT (PORT HURON)-Use strips only. (5-22).

SAULT STE. MARIE-RADIO: Soon, sta lctn marker will be comm. stn class will be: SBMRAZ-DT. (7-12).

SAULT STE MARIE AIRPORT-Loose gravel on N/S rnwy. Use rnwys only. (6-15).

MICHIGAN-Continued

**SCHEIDLER FLD (ALPENA)-80 oct. (6-24)
**SELFRIDGE FLD (MT.CLEMENS)-RADIO: Glide path comm on Army ILS (CAA type). Transmitter located 840' from approach end of rnwy on blue side of localizer course, freq 332.6 mcs. Middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21)
STINSON ARPT (WAYNE)-Closed to trans acft. Const sides N/S rnwy. (7-10)
TRAVERSE CITY-RADIO: Courses aligned by ground check only. (8-23)
TWIN CITY ARPT-ROSS FLD (BENTON HARBOR)-Use rnwys only (shoulders, fld soft after heavy rains), marked. (6-26)
**WASHTENAW ARPT (ANN ARBOR)-New fld. 5 mi W. 3 strips: 2600' NW/SE, E/W, NE/SW. 80 oct, sto. Hi-line S.(Detroit chart)(8-14) Info unverified by CAA. These data rc'd too late for inclusion on flight planning charts. Use rnwys only. Avail days only. (8-14)
**WILLOW RUN ARPT (YPSILANTI)-Bcn, bndry, etc, range, flood, obst lgts. 91,100 oct. Radio rcvr required. (Detroit chart)(8-26) These data rc'd too late for inclusion on Flight Planning Charts. Equip on fld. Trucks on NE/SW taxi strip. (6-15)
YPSILANTI ARPT-Use strips only. (4-1)

MINNESOTA

ALEXANDRIA ARPT-New ramp being const adj present ramp. (7-12)
APPLETON ARPT-Use rnwys, taxi strips only. (6-26)
**BENSON ARPT-2-2/5 mi NW. Lat 45-20-00, long 95-37-45. Elev 1031'. 3 strips: 2180' NW/SE, 2100' NE/SW, E/W, all 300' wide. Pole line NW. (Twin Cities chart)(6-17) Only NW/SE strip avail, bal fld under const. (6-16)
DECKER ARPT (AUSTIN)-Acft over 3500 lbs use caution. (6-28)
DETROIT LAKES ARPT-CLOSED (const). Will be avail soon. (5-24)
FAIRBAULT ARPT-Closed to all acft weighing over 5000 lbs. (5-16)
FLYING CLOUD ARPT (MINNEAPOLIS)-Const. (12-17)
HIBBING ARPT-Equip on fld (seeding). (7-3)
**HOLMAN FLD (ST. PAUL)-Name changed to St. Paul Arpt.(6-18) No svcg. (6-18)
**MADISON ARPT-80 oct, sto, minor acft and maj engine repairs. (1-18)
MANKATO ARPT-Use strips only. (5-16)
MINNEAPOLIS-RADIO: Range flight-checked Aug 31, courses correctly aligned. FLD: Soon lgt atop Foshay Twr will be discont perm. (7-16)
**MONTEVIDEO ARPT-80 oct, sto. (6-17)
**ORTONVILLE ARPT-No svcg. (6-20)
**PARK RAPIDS ARPT-No svcg. (6-17)
ROCHESTER ARPT-Equip on infld. Tetrahedron free swinging. SW 800' NE/SW rnwy closed (repairs). (7-30)
ST. PAUL ARPT-Use rnwys, taxi strips only. (8-1)
THEIF RIVER FALLS ARPT-Const. Fld closed to hvy acft. Portion old E/W rnwy, most of N/S rnwy avail lgt acft only. (8-27)
UNIVERSITY OF MINNESOTA ARPT (NEW BRIGHTON)-E/W strip rough. (5-15)
VICTORY ARPT (MINNEAPOLIS)-Surplus Acft Sales Center - parked acft.
**WESTBROOK ARPT-2 strips: 1800' N/S, 1700' E/W, both 300' wide. (6-17)
WHITNEY MEMORIAL ARPT (ST. CLOUD)-Ctn glider opers. (6-19)
WILLIAMSON-JOHNSON ARPT (DULUTH)-Closed ngts. (8-1)
**WILLMAR ARPT, SITE 16, HURON-MINNEAPOLIS-80 oct, sto, maj engine and acft repairs. (6-1)
**WOLD CHAMBERLAIN FLD (MINNEAPOLIS)-RADIO: Army DF sta oper temp suspended. (2-14) FLD: Three 200' twrs Radio Sta WLOL erected and obst lgtd. Lctd 2 mi ENE (70°) true. (Twin Cities chart)(8-28) Crane with 100' boom operating NE side fld days, marked. Lgt acft use grass areas; heavy trans acft use rnwys. Foreign Clearing Sta for Canada for "Project Musk-Ox" Flights; Clearances to be issued by AAF Flight Service Center. (7-28)

MINNESOTA-Continued

WORTHINGTON ARPT-New fld 1/2 mi ENE unusable. (6-22)
**WYMAN ARPT (AITKIN)-1 strip: 800 x 100' N/S. (6-13)

MISSISSIPPI

AUGUSTINE FLD-ROBINS FLD (JACKSON)-Use strips only - parked acft.
COLUMBUS AAF-RADIO: Army range and twr temp inop. (8-16) FLD: Temp inactive. No facs. (See Special Notice re use). Use rnwys only/ (8-19)
**GREENVILLE ARPT-80 oct. (8-15)
GREENVILLE AAF-Temp inactive. No facs. (See Special Notice re use).
GREENWOOD ARPT-Use rnwys only - sodded portion soft. Army temp inactive - civil facs.
GREENWOOD AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys, taxi strips only.
GRENADA ARPT-Civil facs. NE/SW rnwy closed. (6-28)
GULFPORT MUN. ARPT-Closed ngts. Fld lgts inop. Ltd svcg. Avoid flying over area directly off SW corner. Entire sod fld avail. (5-27)
JACKSON-RADIO: Aug 26, range, bdcast and sta location marker shut down for approx 15 days (const).
**JACKSON ARPT-135' tank 4500' E of NE corner fld, 175' stack 500' E of tank mrkd, obst lgtd. (8-14) Rnwys 16L-34R, 2-20 open to lgt acft only. Bndry lgts NW end Rnwy 11, SE end Rnwy 34 discont. Red guide lgts installed 100' from Rnwy 11-29. (8-14)
JACKSON COUNTY ARPT (PASCAGOULA)-Trans acft use rnwys only - drainage grills under grass. (5-17)
KEESLER FLD (BILOXI)-Use rnwys only. Floodlgts avail on req. Ngt opers restricted to acft with two-way radio. 20' boom NE corner NE/SW rnwy, marked. (5-6)
LAUREL AAF-Army temp inactive - civil facs.
**LELAND ARPT-New fld. 3 mi NNE. 2 strips: 2200' N/S, 2300' NNE/SSW. 80 oct, minor engine and acft repairs. No sto. Pwr line NW. (Shreveport chart) (8-26) Info unverified by CAA. These data rc'd too late for inclusion on Flight Planning Charts.
McCOMB ARPT-W 1/3 of E/W rnwy unusable. (5-27)
WINONA ARPT-Use N/S strip only. (3-25)

MISSOURI

BAILEY'S AIRPARK (CHILLICOTHE)-NE/SW strip useable in dry weather only. (5-4)
**BUTLER ARPT-New fld. 1-1/2 mi N. Lat 38-17-30, long 94-20-00. 3 strips: 1200' NW/SE, NE/SW, 2500' N/S. 80 oct. sto. (Kansas City chart)(8-20) Info unverified by CAA. These data rc'd too late for inclusion on Flight Planning Charts.
**CHILLICOTHE (Site 7, Kansas City-Chicago)-Elev 781'. (Kansas City chart)(8-15) Use paved rnwy only - sod rough (washes). (8-19)
COLUMBIA ARPT-Equip on fld days. Heavy student traffic. Ngt flying 3 mi radius fld. Sod at rnwy sides soft when wet. Traffic pattern 800' on downwind leg. Blinding 20 to 30 million candle power ceilometer 1000' E of rot beacon. 200' twr being const 1 mi SE, temp obst lgtd. (8-29)
**FAYETTE FLYING FLD-New fld. 1-1/2 mi S. Elev 660'. Longest strip 2800'. 80 oct, sto. (Kansas City chart)(7-16) Info unverified by CAA.
FULTON ARPT-N/S rnwy closed to heavy acft. (5-24)
HARRIS FLD (CAPE GIRARDEAU)-Use strips only - parked acft.
HARVEY PARKS ARPT (SIKESTON)-Use rnwys only - parked acft.
INDEPENDENCE ARPT-N/S strip avail, bal fld closed (grading). (6-25)
**JEFFERSON CITY ARPT-NE/SW strip lengthened to 3150'. (8-24) E/W, N/S strips avail lgt acft only (sod soft when wet). NE/SW strip avail twin-engine acft not exceeding weight of C45-C78. (5-11)

MISSOURI-Continued

KANSAS CITY ARPT-CLOSED TO ALL ARMY ACFT EXCEPT IN EMERG - USE FAIRFAX FLD. Equip on fld. Flood lgts on req. Taxi strip in front of Terminal Bldg N along hangar line to E/W rnwy closed to 4-engine acft - avail twin-engine, lgt acft. N end N/S rnwy closed to all transport acft, unmarked. Air carrier and other transport acft use taxi strip for warm-up. Cont take-offs, landings not permitted (const), marked. Unscheduled cargo acft use W portion fld. Crane rising 15-20' above top of levee off N end N/S rnwy on outside of levee, mrkd days; equip removed ngts. Army acft rstd from refueling xcp in extreme emerg. Maj const N end. Neon approach lgt cone will be discont Sept 3 for approx 6 mos. (8-29)

KANSAS CITY-GRANDVIEW ARPT (KANSAS CITY)-Equip on fld days. (8-1)

KIRKSVILLE AIRPARK-E/W rnwy under const. unmarked. (7-17)

KNOXVILLE (Site 3, Kansas City-Chicago)-Fld discont. Beacon being relctd approx 1/4 mi W. Will be comm soon (7-23)

LAMBERT FLD-ST. LOUIS ARPT (ST. LOUIS)-Surplus Acft Sales Center - parked acft. Closed to non-radio equipped acft. Equip on fld. Const work in progress E, SE bndry fld. Army temp inactive - civil facs. W end SW taxi strip closed. W 1500' Rnwy 7-25 closed (const). Navy facs closed to all acft 1700-0800, xcp when opers officer notified 2 hrs prior to 1700. (8-26)

LEBANON, SITE 54B, AMARILLO-ST, LOUIS-Equip on fld. (8-15)

**QUEEN CITY ARPT (SPRINGFIELD)-3 rnwys: 2600' N/S, 3760' NE/SW, 3220' NW/SE, all 100' wide. (8-7)

**ROSECRANS FLD (ST. JOSEPH)-Correct elev 821'. (Kansas City chart)(8-15) CLOSED. Beacon inop. (7-30)

SEDALIA AAF (KNOBNOSTER)-RADIO: Army range unreliable. May be used for homing only without courses; may be intermittent in oper. (7-18) FLD: Use rnwys only. (5-2)

SKY HAVEN ARPT (WEST PLAINS)-Rough. 50' trees ends all strips. Trans acft use in emerg only. (5-24)

SPRINGFIELD-GREENE COUNTY ARPT (SPRINGFIELD)-Use rnwys, taxi strips only, bal fld rough. Blinding 30 million candle pwr ceilometer projector in operation on E bndry. (8-14)

MONTANA

**ANDERSON FLD (CONRAD)-Private landing fld. No fuel. Use in emerg only. (Glacier Park chart)(5-15)

**BAKER ARPT-Only 80 oct. (6-5)

**BILLINGS ARPT-405' twr Radio Sta KBMY erected 3-1/2 mi SSE (173°) true. obst lgtd. (Yellowstone Park chart)(8-6) Lgt lane extends 1500' E of E/W rnwy. Last poles in lgt lane 37' above gnd and 32" above E/W rnwy. Lclzr bldg 1100' from W end E/W rnwy; glide path bldg 300' N of E/W rnwy adj E bndry, lgtd. Army acft rstd from refueling xcp in extreme emerg. (8-28)

**BONES BROS RANCH ARPT (BIRNEY)-4 strips: 2900 x 110-130' ESE/WNW; 1600 x 110' NW/SE; 1300' NE/SW, 1100' NNE/SSW, both 100' wide. (6-6)

COLUMBUS AIRPORT-E section arpt from middle of fld closed (const). Equip on fld, unmarked. (6-22)

CUSTER-RADIO: 116.1 mc transmitter and receiver temp inop. (8-1)

CUT BANK ARPT-Obst lgts on twr, beacon inop. Ctc lgts avail on req. (8-1)

**DEER LODGE ARPT-3 strips: 3800' E/W, 1200' NW/SE, both 70' wide. 2000 x 50' NE/SW. 80 oct. (6-3)

**GREAT FALLS ARPT-Designated as airport on entry for period of one year from Aug 15.

★GREAT FALLS AAF-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21) Lclzr of Army ILS (CAA type) temp inop. AACS, CW freqs are temp inop. Army DF sta temp inop. (7-19) FLD: Rnwy lgts 75' in from outer edge of rnwy shoulders; use 150' center strip. (4-26)

MONTANA-Continued

**HAMILTON ARPT-Only 80 oct. (6-8)

HELENA ARPT-Rnwys restricted to acft under 30,000 lbs. Equip on fld. NE/SW rnwy unlgtd. (8-1)

LEWISTOWN ARPT-Use rnwys only. (7-23)

McQUARTER CIRCLE RANCH ARPT (COLUMBIA FALLS)-E end fld soft, avail lgt acft. (5-7)

MILES CITY ARPT-Bndry lgts inop. (6-22)

MISSOULA COUNTY ARPT (MISSOULA)-NE/SW rnwy closed. NW/SE rnwy closed to class B-17 or heavier acft. (6-23)

**PLAINS ARPT-3 strips: 3200' NW/SE, 2300' N/S, 1500' E/W, all 300' wide. 80 oct, minor engine and acft repairs. No sto. (6-20)

**POLSON ARPT-80 oct, minor engine and acft repairs. No sto. (6-2) Usable with caution. (7-19)

SIDNEY ARPT-Ends of strips in cultivation.

**STEVENSVILLE ARPT-Correct elev 3620'. (Spokane Chart)(6-3)

**ZELKA ARPT (HARDIN)-1 strip: 1800 x 250' E/W. (6-6)

NEBRASKA

**AINSWORTH MUN. ARPT-4 strips: 2500 x 120' N/S, 5200 x 100' NW/SE, 2500 x 170' NE/SW, 2400 x 180' E/W. 80 oct, sto, maj acft and minor engine repairs (5-20).

**BEATRICE ARPT-2 strips: 2200 x 900' N/S, 3000 x 150' E/W. (5-17) Exten const. (5-24)

**CLAY CENTER ARPT-2 strips: 2600 x 500' N/S, E/W. 73 oct, sto. (5-17) Use strips only. (5-19)

CLEAR RIDGE ARPT (OMAHA)-Use strips only. (5-26)

COLUMBUS ARPT-Ditch W edge of the S half of NW/SE strip. (5-25)

**ELGIN ARPT-Sto avail. (5-24)

FREEMONT ARPT-Equip, stakes on fld. (7-28)

★GRAND ISLAND AAF-RADIO: Army ILS (SCS-51) now operating as follows: Serves N/S rnwy with approach from S. Lclzr transmitter located 2180' N of N end N/S rnwy, freq 110.3 mcs. Mag heading for landing: 349°. Glide path transmitter lctd 1347' N of S end of N/S rnwy, freq 335 mcs. Three marker beacons: inner marker, .08 mi; middle marker, 1.00 mi, keyed six dots per sec; outer marker, 4.50 mi, keyed two dashes per sec, all from S end of N/S rnwy. Sys operates 24 hrs daily on req only. (8-21) Army ILS (SCS-51) and DF sta temp inop. (3-11) FLD: 300' twr 1/2 mi SW (225°) true; 1/2 mi N of city, flash. obst lgts at 100' and 200' levels and top. (8-28) Only 73,100 oct avail. (8-20)

**HAYES CENTER (Site 21, Denver-Grand Island)-Elev 3074'. (Lincoln chart)(8-6)

**HEBRON ARPT-80 oct, sto, minor acft and engine repairs. (5-17)

**HEWETT'S ARPT (BEAVER CITY)-3 strips: 1600' NNE/SSW, 1700' NNW/SSE, 4000' N/S, all 100' wide. (5-18)

**HOLDREGE ARPT-80 oct, sto, minor acft and engine repairs. (5-18)

KEARNEY AAF-2nd and 3rd Echelon maintenance not avail. Use rnwys, taxiways only. No scvg 1700 to 0800. (7-11)

LEE BIRD FLD (NORTH PLATTE)-Equip on fld days. Const in area from intersection of E/W, NW/SE rnwys to hangar line, marked. Use rnwys only. (6-19)

**LEXINGTON ARPT-New fld. 1 mi W;RR S. Lat 40-47-30, long 99-46-00. Elev 2400'. Longest strip 3200'. Fuel, sto, maj acft and minor engine repairs. (Lincoln chart)(8-19) Info unverified by CAA.

LINCOLN AAF-Temp inactive. No facs. (See Special Notice re use). Oper facs avail 0800 to 1700 and other hrs by previous req. Ctc Lincoln Radio in emerg. (3-14)

McCOOK AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys only - shoulders extremely soft.

NORTH PLATTE ARPT-Army acft rstd from refueling xcp in extreme emerg. (8-28)

**OMAHA ARPT-73,80,91,100 oct. (5-24) S taxi strip avail only single engine acft. Use rnwys only. Rnwy 17R-35L avail lgt acft only. (8-24)

**100TH MERIDIAN ARPT (COZED)-80 oct. (8-7)

NEBRASKA-Continued

**SCHWARTZ-JOHNSON SKYPORT (SIDNEY)-73, 80, 91 oct. (8-30)
SCOTTSBLUFF-RADIO: Conversion of radio range stn to SBMRLZ-DT and proposed shift of courses postponed until Sept 6. Sta class will be: SBMRLZ-DT. NE, SW courses will be realigned to: 205°, 25°. (8-22)
SIDNEY (Site 50, Salt Lake-Omaha)-E/W strip avail, bal fld rough. (5-7)

NEVADA

ALAMO ARPT (LAS VEGAS)-Const equip SW end NE/SW strip. (3-13)
BATTLE MOUNTAIN FLIGHT STRIP-SITE 35, SAN FRANCISCO-SALT LAKE- Use paved surfaces only - shoulders soft. Equip. on fld days. 40' obst 800' from NE end NE/SW rnwy - lgtd ngts. (8-14)
**CARSON SINK (Bcn Site 25, San Francisco-Salt Lake)-Clear rot. bcn with red course lgts flash char "5" (. - .) Oper dusk to dawn. Lotd 1-1/2 mi W of old lctn. (Reno chart) (8-5)
**CARSON SINK (Bcn Site 26B, San Francisco-Salt Lake)-Clear rot. bcn with red course lgts flash.char "6" (- . -) Oper dusk to dawn. Lotd 2 mi SW of old lctn. (Reno chart) (8-21)
DOUGLAS-TAHOE AIRPORT (MINDEN)-S 700' N/S taxiway closed. (4-2)
FERNLEY (Site 22, San Francisco-Salt Lake)-Rough with soft areas due wind erosion, soft sand, marked. (7-10)
GABBS (Site 36, Riverside-The Dalles)-In the near future all lgts will be discont - avail days only. (7-31)
HUBBARD FLD (RENO)-Equip E/W ends Rnwy 7-25. Rnwy 16-34 closed days. (8-14)
HUMBOLDT (Site 28B, San Francisco-Salt Lake)-SE quarter fld unsafe (4" washes) (6-12)
INDIAN SPRINGS ARPT-Temp inactive. No facs. (See Special Notice re use).
LAS VEGAS-RADIO: VHF range will be comm soon at lat 36-11-06, long 115-05-48. Bear. and dist, sta to McCarran Fld: 24°, 4.2 mi. Freq. 109.1 mcs. Ident "LQ" (. - . . - - . -) Courses: Visual, 29°,209° Aural, 119°,299°. Mag variation 16° E Simult.voice channel and receiving watches (3117.5 kcs, 116.1,131.7 mcs) avail. 24 hrs daily. Sta. class: VAR-VDT. (5-8)
LAS VEGAS AAF-Weather, opers and ltd maintenance facs avail. 0800 to 1700 Mon thru Fri only. Clearance by AFS other hrs. (8-14)
**McCARRAN (Bcn Site 24, San Francisco-Salt Lake)-Discont. (Reno chart) (8-14)
RENO-Two lgtd 285' twrs Radio Sta KOLO, 1-1/2 mi NE under const. (4-18)
RENO AAB-Temp inactive. No facs. (See Special Notice re use).
SCOTTYS (Site 22, Riverside-The Dalles)-In the near future all lgts will be discont - avail. days only. (7-31)
**TONOPAH-That portion of the large aerial gunnery and strafing range SE, lying below lat 37-32-53, has been discont.
TONOPAH-RADIO: Sta unmanned from 2400 to 0800 daily. (7-31)
TONOPAH AAF-Temp inactive. No facs. (See Special Notice re use).

NEW HAMPSHIRE

BOIRE FLD (NASHUA)-Wind cone atop brick hangar bldg used to indicate wind conditions. In calm air conditions, take-offs and landings will be made toward the NW. (7-15)
BRATTLEBORO-HINSDALE AIRPARK (HINSDALE)-Use only N/S strip unless familiar with fld. (6-4)
**DANIEL WEBSTER AIRWAYS ARPT (NASHUA)-New fld. 3½ mi NW; riv E. Lat 42-48, long 71-29. Elev 192'. 3 strips: 2400' N/S; 2300' NE/SW; 2100' E/W, all 300' wide. 80,91 oct, major engine and acft repairs., sto. (7-26) Info unverified by CAA.
**GATE CITY AIRPARK (NASHUA)-New fld. 4 mi S. Lat 42-42, long 71-27. 1 strip: 2300 x 500' NNW/SSE. 80 oct, sto, minor engine and acft repairs. (Boston chart) (8-27) Info. unverified by CAA. These data rec'd too late for inclusion in Directory of Arpts and Flight Planning Charts.

NEW HAMPSHIRE-Continued

GRENIER FLD (MANCHESTER)-RADIO: Army ILS (SCS-51) now operating as follows: Serves N/S rnwy with approach from S. Localizer transmitter located 1000' N of N end N/S rnwy, freq 109.5 mcs, ident "DUR" (- . . . . - , - .) Mag heading for landing: 352°. Glide path transmitter located 1028' N of S end N/S rnwy 475' from centerline on yellow side of localizer course, freq 332.6 mcs. Three marker beacons: inner marker, .02 mi; middle marker .71 mi; outer marker 5 mi, all S of S end N/S rnwy. Two compass locators: MMK (at middle marker site) on 201 kcs, ident "R" (. - .); OMK (at outer marker site) on 219 kcs, ident "U" (. . -). Sys operates cont. (8-21)
GRENIER FLD (MANCHESTER)-RADIO: Glide path and inner marker of Army ISL (SCS-51) temp inop. (7-23) FLD: Rnwy 13-31 closed. 90' twr 1 mi SW, unlgtd. (8-1)
HOOKSETT LAND & SEAPLANE BASE (HOOKSETT)-Avail. days only. (5-9)
LAKES REGION ARPT (WOLFEBORO)-CLOSED (const). Grass strip avail in emerg.(4-8)
**LAKE WINNEPESAUKEE SEAPLANE BASE (WOLFEBORO)-3 mi WSW. Lat 43-35, long 71-16. Landing area: 6000 x 1000' NW/SE, NNE/SSW. 80 oct. (Boston chart) (5-15) Info unverified by CAA.
LANCASTER AIR PARK-CLOSED. (4-25)
LEWIS FLD (LITTLETON)-CLOSED (const). (4-23)
NEWPORT ARPT-60' trees at N end and edge of N/S strip. (1-8)

NEW JERSEY

ATLANTIC CITY NAS-Avail. 0700 to 1530 Mon thru Fri. ETA prior to 0700 and after 1530 requires previous arrangement with Operations Officer. (7-11)
BENDIX-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3,110.1 mcs.
BOUNDBROOK-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.
CAPE MAY CGAS-Closed to trans acft except in emerg (caretaker status - no facs
**CAPE MAY NAS SEAPLANE BASE-Transferred to U. S. Coast Guard, will hereafter be carried as Cape May CGAS Seaplane Base. No svcg. (5-15)
CARTARET-Beacon, side lgts inop on twr Radio Sta WOR. (7-24)
**CENTRAL ARPT (CAMDEN)-Open to private flying. (8-19)
**DELAWARE BAY-Circular bombing area over Bay has been discont.
FORT DIX-Artillery range at Fort Dix. When firing in progress, special traffic patterns are used.
FORT DIX AAB (WRIGHTSTOWN)-Temp inactive. No facs. (See Special Notice re use).
**HIGHTSTOWN ARPT & AIR SERVICE ARPT (HIGHTSTOWN)-New fld. 1-3/10 mi SW; RR W. Lat 40-15-15, long 74-32-30. Elev 110'. 2 strips: 1850' N/S, 1550' NW/SE, both 200' wide. 80 oct, storage, major engine and acft repairs. (New York chart) (3-12)
LAKE SUSQUEHANNA ARPT (BLAIRSTOWN)-Temp fence erected at SW rnwy at bndry of fld. (8-6)
**MONMOUTH COUNTY ARPT (BELMAR)-Formerly carried under Asbury Pk. 3-1/2 mi W; hwy E. Lat 40-11-45, long 74-07-15. Elev 180'. 1 strip 3000 x 150' NW/SE. 80 oct, sto, minor engine and major acft repairs. (New York chart)(3-12)
NASSAU AIRPARK (CLARKSVILLE)-100' drainage ditch N side NNW/SSE strip, marked. (2-27)
NEWARK-RADIO: R[illegible] flight-checked Aug 27, courses correctly aligned. [illegible] courses.
NEWARK ARPT-RADIO: CAA twr now transmits on 278 kcs, 126.18,118.3 mcs.(8-30) [illegible] crosser of all acft without 2-way radio. Landing fee for itinerant acft now in effect based on weight classification. All itinerant acft must taxi to Newark Air Service, upon landing and register. E 800' Rnwy 28 rough; Pilots should make approach to numeral Rnwy. S 2000' Rnwy 1 very rough. No hangar space for Army acft. 350' smoke stack 1 mi NE obst lgtd. No 73 oct. Equip. along W side NE/SW rnwy from intsxn SW, approx 50' out

from intarn running to approx 175' out from SW end of rnwy, mrkd. S 1800' N/S rnwy closed until approx Sept 30. (7-31)

**PERTH AMBOY SEAPLANE BASE-New base. 5 mi E. Landing area unlimited. 80 oct. dolly; boat; ramp; dock; float. (New York chart) (8-16)

SOLBERG-HUNTERDON ARPT (READINGTON)-NE end NE/SW rnwy under const. (6-16)

TETERBORO AIR TERMINAL (BENDIX)-Heavy acft use NE/SW,N/S rnwys. Taxi strip S end fld not completed. Acft landing from N must taxi on the rnwy to N end taxi strip. Use extreme ctn due to other acft landing on rnwy. Lgt acft use NNE/SSW rnwy. Signal lgt from twr in oper 0800 to 2000. All acft landing and taking off should be guided accordingly. (8-6)

**WARREN GROVE-Circular rocket firing area approx 1½ mi W has been discont.

ALAMOGORDO AAF-RADIO: Army ILS (CAA type) inop (8-7) FLD: Opers and svcg avail. 0730 to 1600 Mon thru Fri. only. Rnwy 3-21 lgts inop. (7-19)

**ALBUQUERQUE ARPT-4 strips: 6180' NE/SW; 6030' NW/SE; 5280' E/W; 3840' N/S, all 200' wide. (5-7) Used by RFC. Avail. only for delivery surplus acft this fld, prospective purchasers of surplus acft or parts, or in emerg.

ANTON CHICO (Site 78A, Los Angeles-Amarillo)-No fuel. (5-30)

**ARTESIA ARPT-73,80,87,91 oct. (5-15)

**AZTEC ARPT-2.2 mi NW on mesa; riv E,W.. Lat 36-50-15, long 108-01-30. Elev 5700'. 2 stripe: 2800' NE/SW, 2500' WNW/ESE, both 100' wide. Emerg only. (Grand Canyon chart) (5-8)

**B & B FLYING SERVICE ARPT (ROSWELL)-New fld. 2 mi S; RR, hwy E. Lat 33-22, long 104-31. Elev 3600'. 4 strips: 2400' N/S, 2500' NE/SW, 3200' E/W, 2700' NW/SE, all 150' wide. 80 oct, sto. (Roswell chart) (5-15)

**CARLSBAD ARPT-New fld. 3 mi N; RR E. Lat 32-28, long 104-14. Elev. 3100'. 3 strips: 1800' N/S, 2200' NW/SE, 3800' E/W, all 100' wide. 80 oct, sto. (Roswell chart) (5-15)

★CLOVIS AAF-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21) Army ILS (CAA type) temp inop. (6-27). FLD: No 91 oct. (6-12)

**CRUCES FLD-SITE 42, EL PASO-PUEBLO (RATON)-No svcg. (5-30) CLOSED (const) (4-29)

DEMING AAF-Temp inactive. No facs. (See Special Notice re use.).

**EAGLE NEST LANDING STRIP-Correct location: 1 mi NE. Lat 36-33-45, long [illegible] in emerg only. (Trinidad chart) (5-9)

EAGLE (Site 10, El Paso-Pueblo)-No fuel avail. (8-29)

**FARMINGTON ARPT-3 strips: 3000 x 100' N/S; 6500 x 200' E/W; 5280 x 150' NW/SE. 80,91 oct. (8-20)

**GALLUP SUMNER ARPT-Correct elev 4166'. (Albuquerque chart) (8-7)

GALLUP ARPT-No svcg. (5-7) E/W rnwy closed. (5-4)

**GALLUP CITY FLD-3 strips: 4800' ENE/WSW; 4000' NE/SW; 2000' NW/SE, all 100' wide. Only 80 oct. (5-7)

HOBBS AAF-Rnwys 3-21, 12-30 closed. Ltd svcg, maintenance. (6-10)

HOBBS MUN. ARPT-Allway landing area rough. Heavy acft use rnwys only. (7-21)

**JOHN J. SMALL ARPT (CARLSBAD)-New fld. 3½ mi SSE; RR, hwy NE. Lat 32-22-30, long 104-12-45. Elev 3150'. 3 strips: 2100 x 200' N/S; 2700 x 300' NW/SE; 2400 x 180' E/W. 73 oct. (Roswell chart) (5-15)

JUNDT FLD (STRAUSS)-Avoid E 500' E/W strip. Fld soft when wet, dusty when dry. S half E/W strip being widened. Closed to cross-country acft when wet. (5-28)

KIRTLAND FLD (ALBUQUERQUE)-RADIO: AACS, ILS and DF (HF) facs temp suspended. (6-25) FLD: 25 million candlepower ceilometer projector installed 1000' N of Terminal Bldg; will blind if looked directly into. (6-5)

**LAS CRUCES ARPT-SITE 4, EL PASO-PUEBLO-No fuel or svcg. (5-29)

LAS VEGAS ARPT-Use rnwys only - bal fld unsafe. (5-30)

**MAGDALENA ARPT-3 strips: 2600' NE/SW; 3800' ENE/WSW, both 100' wide; 4800 x 60' ENE/WSW. (5-6)

OTTO (Site 73A, Los Angeles-Amarillo)-No fuel avail. (7-11)

ROSWELL-Inten inst train. on Roswell Radio Range below, above, and in overcast. Acft inbound to Roswell or operating in vicinity under IFR, contact Roswell Radio for instructions.

**ROSWELL COM. ARPT-New fld. 4 mi W; hwy N. Lat 33-23-15, long 104-35-30 Elev 3700'. 4 strips: 2300' N/S; 3300' NE/SW; 2500' E/W; 3200' NW/SE, all 100' wide. Windmill SW. (Roswell chart) (5-15)

ROSWELL AAF-Inside Rnwy 3L-21R closed. Ltd parking, svcg facs. (5-2)

SANTA FE AIRPORT, new-Rnwy lgts inop. Army acft rstd from refueling xcp in extreme emerg. (8-28)

**WEST MESA ARPT (ALBUQUERQUE)-Only 73, 80 oct. (5-7) Surplus Acft Sales Center - parked acft.

ALBANY ARPT-Equip on fld intermittently. (6-20)

**BRIGGS FLD (CARLISLE)-New fld. 3/5 mi SE; RR W; hwy N. Lat 42-45-00, long 74-26-30. Elev 1320'. 2 strips: 1000 x 125' ENE/WSW; 1200 x 300' NW/SE. (Albany chart) (5-9)

★BUFFALO ARPT-RADIO: CAA twr now guards 3105,4495,6210,3117.5 kcs, 126.18, 118.5,131.9 mcs. (8-20) FLD: Acft entering and departing Buffalo traffic zone use ctn - new arpt 4000' ESE. (7-31)

CHEMUNG COUNTY ARPT (ELMIRA)-Lgts on req. Traffic gun displayed in front of main hangar during air carrier opers to control local traffic and at other times when circumstances make such practices consistant with safety. (Equip. N and W of N/S rnwy days. (7-2)

CLASONS POINT-RADIO: About Sept 15, range will be comm at lat 40-49-11, long 73-50-33. Freq 209 kcs, ident "LG" (. - . . - - .) Bear. and dist, stn to La Guardia Fld: 222°, 3.2 mi. Courses will be: 42°,132°,222°,273°. Stn class will be: SBRAZ-VDT. VHF voice fac will transmit on 116.1 mcs, Stn will guard 3105,4495,6210,3117.5 kcs, 116.1 mcs. The Clasons Point LFM will be decomm when the range is comm. (8-27)

**DEER PARK ARPT-New fld. 4/5 mi ESE; RR N, rd adj W. Lat 40-45-30, long 73-18-45. Elev 75'. 1 strip: 1000 x 50' E/W. Trees adj E; pole line W. (New York chart) (2-7)

**ELMIRA ARPT-2 mi SSW;RR E;hwy adj E. Lat 42-03-45, long 76-49-30. Elev 890' 1 strip: 1600 x 150' NE/SW. Trees adj NE, S. (Albany chart) (3-15)

**ELMIRA-PINE CITY ARPT (ELMIRA)-New fld. 4-3/5 mi SW; RR S,E; hwy N. Lat 42-02-15, long 76-51-45. Elev 980'. 1 strip: 1400 x 500' ENE/WSW. Trees WSW. (Albany chart) (3-14)

FLOYD BENNETT FIELD NAS (NEW YORK)-Closed 1700 to 0800. (8-15)

FORT PLAIN (Site 40A, Cleveland-Albany)-Unsafe heavy acft (soft). SE 700' NW/SE strip unsafe all acft, marked. (4-4)

GLOVE CITY ARPT (GLOVERSVILLE)-Right hand traffic pattern xcp when taking-off or landing to the E. NE corner fld unusable, soft area mrkd. Closed to all acft over 250 horse pwr. (7-3)

**GULF SEAPLANE BASE (PORT WASHINGTON)-Name changed to Grumman Seaplane Base. (New York chart) (5-15)

**HICKSVILLE AIRPARK-2 strips: 1500' NE/SW, 1700' NW/SE, both 500' wide. 80 oct, sto, minor engine and acft repairs. (5-28)

HILTON AIRPORT-Use rnwys, taxi strips only, bal fld closed. (4-1)

HYLAN FIELD (ROCHESTER)-Use strips only - caution when wet. (5-18)

IDLEWILD AIRPORT-Not yet opened (const). (4-4)
ITHACA AIRPORT-Right hand traffic pattern in use. (8-3)
JOHNSTOWN-SPECIAL NOTICE-The Common Council of the City of Johnstown on June 11, 1946, passed the following ordinance: "Section 1. Taking off or landing so as to pass over a congested part of the City of Johnstown at a height of less than 500' is. . . a public nuisance and is hereby prohibited. Section 2. Any person . . . violation any provision of this ordinance shall be liable to a penalty of $50.00 for each violation . . ."
KINGSTON-ULSTER AIRPORT (KINGSTON)-ESE/WNW strip closed. (3-20)
LA GUARDIA FLD (NEW YORK-CAA seadrome bouy lgts AECDEFGH. KLMNPR removed from vicinity of La Guardia Fld. (New York chart) (8-1) ARMY ACFT HAVING OFF BUS WITH HQ ATLANTIC DIV ATC, FT. TOTTEN, N.Y. SHOULD LAND AT MITCHEL FLD AND USE ATC OPER FACS THAT POINT. CLOSED TO ALL NAVAL ACFT EXCEPT THE FOLLOWING BECAUSE OF HEAVY TRAFFIC AND INSUFFICIENT SVCG FACS: Acft containing personnel on off. bus. or with commander Eastern Sea Frontier or Hdqs 3rd Naval District when RON or refueling services are not required. Acft containing officers of flag rank shall not be forbidden fld. TRANS NAVY ACFT USE NAS, FLOYD BENNETT. Army temp inactive - civil. facs. Ltd parking and svcg facs for mil acft. Equip. between NW/SE rnwy and ramps N of Hangars 2 and 4. Pilots of all mil acft check in base oper office upon arrival. 10' high, 40' long obst 190' N of NE/SW rnwy lgtd. Dump trucks outer edges fld days, clear of all rnwys. Obst lgts atop localizer shack approach end Rnwy 22 and end Rnwy 4. 70' lgtd boom 4000' SE of NW/SE rnwy. 20' lgtd bldgs 300' E of NE end NE/SW rnwy. NE 1300' Rnwy 22 rough. Pilots of mil acft contact AFS fld extension 285 on arrival. (7-5)
MacARTHUR FIELD (ISLIP)-RADIO: Priv twr operating on 278 kcs. Guards 3105 kcs. Operates 0900 to 1700, week days, can provide ngt and Sun service upon req if important. (2-7) FLD: Mobile inst. landing units 20' high on all rnwys 500' from rnwy center line, lgtd ngts. Acft use ctn - unconventional flight test oper. (5-23)
MALONE-DUFORT AIRPORT (MALONE)-Land on rnwys or grass along side of rnwys. Taxi on hard surface. (7-26)
MASSENA-156' twr Radio Sta WMSA lctd 232°, 3.0 mi SW temp lgtd with red lgts on top. Upon completion lighting facs will consist of 300 mm flash. beacon atop and four side lgts; two at 1/3 level, 2 at 2/3 level. (9-9)
MASSENA AIRPORT-Use rnwys, taxi strips only - turf rough. (6-11)
★MITCHEL FIELD (HEMPSTEAD)-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec. outer marker keyed two dashes per sec. (8-21) Army ILS (CAA type) temp inop. (7-31) FLD: Rnwy 18-36 closed. (7-17)
★★MONTAUK YACHT CLUB SEAPLANE BASE (MONTAUK)-87 oct. Avail. Mar 1 - Oct 1.
MONTGOMERY FIELD (U.S. MILITARY ACADEMY NO. 1)(MONTGOMERY)-CLOSED. (11-7)
★★NASSAU ARPT (HEMPSTEAD)-4-1/2 mi E; hwy N. Lat 40-43-15, long. 73-32-15. Elev 80'. 4 strips: 2000' E/W, 1700' NE/SW, 1900' N/S, 2100' NW/SE, all 500' wide. (New York chart) (5-28)
NEW HACKENSACK AIRPORT (U.S. MILITARY ACADEMY NO. 3)-CLOSED. (7-26)
NEW YORK CITY-See Special Notice "Restriction on Flight of AAF Acft in New York City Area".
NEW YORK-RADIO: About Sept 15, the New York Radio Range will be decomm.
NIAGARA FALLS AIRPORT-Use rnwys, taxi strips only - soft spots along edges new E/W rnwy, marked days. Equip. center portion fld. Bndry, obst, wind sock and rnwy lgts avail. 2000 to 0800. Grass area S of Mid E/W rnwy and E of N/S rnwy closed. (tall stakes being driven into sod). Army acft rstd from refueling xcp in extreme emerg. (8-28)
PICKAIR SEAPLANE BASE (OSSINING)-Unmarked net poles. (3-18)
PLATTSBURG AIRPORT, old-Avail. lgt acft in emerg only. (5-31)
PULASKI AIRPORT-Under const. Landing area being extended in all directions. (8-7)

★★RANDALL'S ARPT (MIDDLETOWN)-New fld. 1-4/5 mi ESE; RR NW, rd adj S. Lat 41-26-00, long. 74-23-30. Elev 520'. 1 strip: 2000 x 300' NNE/SSW. 80 oct. (New York chart) (5-7)
REPUBLIC FIELD (FARMINGDALE)-RADIO: Priv twr operating on 371 kcs. Guards 3105,4495,6210 kcs. Operates days only. (2-15) FLD: Elev 85'. (New York chart) (5-28)
ROCHESTER AIRPORT-Use rnwys only (soft). No hangar space. Equip. on fld days. (5-19)
ROME AAF-Traffic alt 1500' MSL. Right hand traffic pattern. (7-15)
★★ROOSEVELT FLD (MINEOLA)-Only 80,91,100 oct. Storage. (5-28)
SALAMANCA ARPT-Right traffic pattern when taking off to the W. (5-7)
SARANAC LAKE AIRPORT-Use rnwys, taxi strips only - turf rough. (6-5)
SCHENECTADY COUNTY AIRPORT (SCHENECTADY)-Use rnwys only - turf areas soft. Equip. on N end fld. Trucks crossing NW/SE, N/S rnwys, adj taxiways. (8-7)
★★SCHOHARIE COUNTY AIRPORT (RICHMONDVILLE)-New fld. 1-3/10 mi NE; RR N, hwy S. Lat 42-38-30, long. 76-32-45. Elev 1000'. 1 strip: 1600 x 500' ENE/WSW. Trees E. 80 oct. (Albany chart) (5-9) Right traffic pattern in use. (1-25)
★★SCOTT ARPT (LANCASTER)-1 strip: 2175 x 200' E/W. 80 oct. (7-30) Rnwy info unverified by CAA.
SHERIDAN AIRPORT (WILLIAMSVILLE)-E/W rnwy under const. NE/SW avail. with caution. (5-21)
★★SMITHPORT INC. (UTICA)-New fld. 2 mi S. Lat 43-03, long. 75-13. Elev 1150'. 1 strip: 2350 x 300' WNW/ESE. (Albany chart) (8-3) Info unverified by CAA.
SPRINGVILLE AIRPORT-Only E/W strip avail., bal fld closed (const). (4-1)
STEWARD FLD (NEWBURGH)-Pilots unfamiliar with Stewart Fld let-down procedure will not be cleared this fld under actual inst conditions. Final approach under these conditions will be made on SW leg Stewart Fld range only. (8-5)
★SYRACUSE ARPT-RADIO: Sept 1, Municipal twr oper assumed by CAA. Freq 278 kcs. Gds 3105,4495,6210,3117.5 kcs. Oper cont. These data rc'd too late for inclusion in "Air Navigation Radio Aids"
FLD: Turf areas soft after heavy rains. Rnwys being resurfaced. Equip. on rnwys 0600 to 1600 daily. Resurfacing in progress as follows: NW 3000' NW/SE rnwy; NE 2950' NE/SW rnwy and 3000' N/S rnwy. Opers may shift from one rnwy to another depending on wind conditions. All flight opers conducted on turf paralleling each rnwy and on the side furthurest from twr bldg unless otherwise instrd by twr. Trucks hauling equip. across all landing areas. Opers will resume normal procedures ngts - all equip. will be removed. (7-26)
TONAWANDA AIRPORT-NE/SW strip rough. Acft may land on either side of rnwy. (6-11)
UTICA-RADIO: Range flight-checked Aug 21, courses correctly aligned.
★★VALLEY AIR PARK (MIDDLEBURG)-New fld. 1½ mi NNW. Elev 635'. 1 strip: 1600' NW/SE. (Albany chart) (8-5) Info unverified by CAA.
WALLKILL FIELD (U.S. MILITARY ACADEMY NO. 2)(WALLKILL)-CLOSED. (11-7)
WATERTOWN AIRPORT-Lgts being installed. Land and taxi with ctn. Holes along rnwy edges. (8-1)
WESTCHESTER ARPT INC. (ARMONK)-Const, tree removal equip. on fld. (8-16)
WESTCHESTER COUNTY AIRPORT (WHITE PLAINS)-Const. Excavation and equip. SW end NE/SW rnwy. Lgts inop due to repairs. 3 unlgtd 40' masts being erected off bndrys of fld approx 1000' SE of intsxn of N/S and E/W rnwys (6-14)
WINDSOR AIRPORT-Fld rough. Lgt acft only. (3-21)

NORTH CAROLINA

ASHEVILLE-HENDERSONVILLE ARPT (ASHEVILLE)-No contact lgts installed on NW/SE rnwy, approach all rnwys with caution, equip. on fld. No radio facs. (1-7)
ATLANTIC MCAAF-Use in emerg only (caretaker status - no facs).

BALLOON FIELD NO. 1 (FORT BRAGG)-CLOSED. (11-20)
BOGUE MCAAF-Closed to all acft except in emerg. (No facs). (7-11)
BURLINGTON AIRPORT-CLOSED (Equip.) (5-23)
CANNON AIRPORT (CHARLOTTE)-Surplus Acft Sales Center - parked acft.
CHERRY POINT MCAS-Const, equip. on rnwys. Rnwy lgts being repaired. (7-17)
EDENTON NAS-Use in emerg only (caretaker status - no facs).
ELIZABETH CITY CGAS-Stay on rnwys - shoulders soft and rough. Closed ngts from 1930 to 0730 except on prior req. All fld lgts inop. (7-31)
**ELKIN ARPT (JONESVILLE)-Will hereafter be carried under Elkin. Correct location: 2-4/5 mi SW Elkin. 2 strips: 1800' N/S; 2400' E/W, both 200' wide. (Winston-Salem chart) (8-4) Rnwy info unverified by CAA.
FAIRCHILD-CIVIL ARPT (BURLINGTON)-Use rnwys, taxi strip only. No fld facs. (3-29)
FORT BRAGG-Heavy firing is being conducted in all sections of Fort Bragg danger area up to 20,000 ft. All acft must avoid this area shown on Flight Planning chart 55, herein.
FORT BRAGG-Inten train. days with radio control target planes from fld 6 mi due E of N end Pope Fld. Acft will operate within circle of 4 mi radius from center of fld with max alt of 2000' taking off by catapult, landing by parachute.
**FRANKLIN FLD (LOUISBURG)-New fld. 2 mi WSW; hwy S. Lat 36-05-15, long. 78-20-00. Elev 290'. 2 strips: 2000' ENE/WSW, 1300' NNW/SSE, both 175' wide. Hi-line S. 80 oct, sto, minor engine and acft repairs. (Winston-Salem chart) (6-18)
GARNETT T. BROOKS ARPT (RED SPRINGS)-Temp closed pending change in opera.(2-6)
GREENSBORO-HIGH POINT ARPT (GREENSBORO)-Both sides Rnwy 32 to intersection soft, rutted. Use rnwys only. No Army gas avail. (8-16)
**LILLINGTON ARPT-80 oct, sto. (8-24) These data rc'd too late for inclusion on "Flight Planning Charts"
MORGANTON AIRPORT-Soon arpt will be closed to all acft - use Riverside Arpt. (4-26)
OAK GROVE MCAAF (POLLOKSVILLE)-Const on all rnwys. (2-13)
★POPE FIELD (FORT BRAGG)-RADIO: Army ILS (SCS-51) now operating as follows: Serves N/S rnwy with approach from S. Localizer transmitter located 500' N of N end N/S rnwy, freq 110.3 mcs. Mag heading for landing: 360°. Glide path transmitter located 750' N of S end N/S rnwy 375' from center-line on blue side of localizer course, freq 335 mcs. Three marker beacons: inner marker, .04 mi; middle marker, 4 mi, keyed six dots per sec; outer marker, 4.18 mi, keyed two dashes per sec, all S of S end N/S rnwy. Sys operates 24 hrs daily on req. (8-21) FLD: CLOSED TO LIAISON TYPE ACFT WITHOUT TWO-WAY RADIO - USE AUX STRIP 2 MI N, AT FORT BRAGG. Svcg avail. that fld. Heavy glider traffic. Equip. on fld days. 73,100 oct avail. (8-26)
RALEIGH-DURHAM ARPT (RALEIGH)-ILS and transmitter bldgs 900' from NE end NE/SW rnwy. Glide path unit 400' S center line and 900' S of SW end NE/SW rnwy. Approach lgts 75' N of S end NE/SW rnwy and extending 1500' from end of rnwy. All obsts mrkd. (7-31)
★SEYMOUR JOHNSON FLD (GOLDSBORO)-RADIO: Army range and twr decomm. (8-28) FLD: Use rnwys only - shoulders soft. Temp inactive. No facs. (See Special Notice re use).
WEEKSVILLE NAF-LTA-RADIO: About Sept 17, freq of Navy range will be changed to 922 kcs. (8-28) . FLD: Avail. HTA acft under 6000 lbs. Rnwy in use lgtd with flare ppts ngts. (1-9)

NORTH DAKOTA

BISMARCK ARPT-Use rnwys only. Equip. on fld, resurfacing rnwys. Army acft refd from refueling xop in extreme emerg. (8-28)

**CHANDLER ARPT (WILLISTON)-4 strips: 2400' E/W, NE/SW, N/S; 2100' NW/SE, all 75' wide. (5-7) Use stripe only, bal fld rough. (5-10)
DICKINSON-RADIO: Moderate multiples E course, lgt multiples other courses.
DICKINSON MUN. ARPT.-EQUIP. ON FLD. (7-22)
**DUNSEITH MUN. ARPT.-1-1/2 mi S. Lat 48-47-30, long. 100-03-45. Elev 1715' 2 strips: 1300' E/W, 2600' N/S, both 300' wide. (Minot chart) (6-27)
FARGO ARPT-HECTOR FLD (FARGO)-Equip. on fld. Lgts on req only. Oper of beacon days indicates weather below CFR minimums. (5-1)
GRAND FORKS ARPT-Use rnwys, taxi strips only. Shoulders soft. Equip. on fld. 50' const booms adj to NE corner fld, lgtd ngts. (8-27)
ILO ARPT (KILLDEER)-Arpt information not yet verified by CAA. (10-8)
VALLEY CITY AIRPORT-SITE 71, HELENA-TWIN CITIES-CLOSED (const). Course lgts changed to red. Bndry lgts discont. (7-29)
**WILLISTON ARPT-4 strips: 2400' NW/SE; 2200' E/W, N/S; 2100' NE/SW, all 100' wide. 80, 91 oct. (5-7)
WYMAN ARPT (MOTT)-Arpt information not yet verified by CAA. (10-12)

OHIO

AKRON-Barrage balloons will be flown 0900 to 1800 daily within Blue Arwy 15: (1) approx 4 mi N W of Akron Mun. Arpt. at 250'; (2) approx 5 mi NW of Akron mun. arpt at 100' above roof of O'Neil Bldg. (8-7)
AKRON AIRPORT-Surplus Acft Sales Center - parked acft. Use rnwys only. Equip. on fld days. Trans pilots must register in Admin Bldg upon arrival and departure. Ltd svcg facs only. (5-27)
**ATTAWAY AIR RANCH AIRPORT (MASON)-80 oct. (6-19)
BRECKLING AIR SERVICE (CLEVELAND)-Large ramp under const. (7-24)
**BRECKLING AIR SERVICE SEAPLANE BASE (CLEVELAND)-80 oct, minor engine and acft repairs. No sto. (7-24)
BRICKER FIELD (BOWLING GREEN)-Use right hand traffic when landing or taking off to N, W, and SW. (7-17)
BROOKFIELD AIRPORT-Avail. lgt acft only. Use E/W strip. N/S strip under const. (4-21)
BRYAN-DEFIANCE MEMORIAL ARPT (DEFIANCE)-Use E/W rnwy only, bal fld and rnwys under const. (7-2)
CEDER LAWN ARPT (KENTON)-Use stripe only. (6-26)
**CHARDON ARPT-Only 80 oct. (6-19)
CHERRY FORK (Site 4, Cincinnati-Washington)-Unlgtd 30' pwr line 500' N of N/S strip. (8-3)
CINCINNATI AIRPORT, INC. (SHARONVILLE)-Taking off to W, SW, S use right traffic pattern. (5-1)
CLEVELAND (Cleveland Arpt)-An anchored balloon with lgtd 7' fluorescent star suspended beneath, will be flown at an elev. of 600' above ground over Nela park, approx 16 Mi NE of Cleveland Arpt on Blue Arwy 11 from 1930 Sept 11 to 1200 Sept 12. (8-2)
CLEVELAND ARPT-Trans pilots must register in Terminal Bldg upon arrival and departure. Landing fee on all civil. multi-engine acft. (7-17)
★CLINTON COUNTY AAF (WILMINGTON)-RADIO: Army compass locator sta oper 0800 to 1630 Mon - Fri, other hrs on req. GCA oper on req to twr 0830 to 1630, Mon - Fri. (8-7) FLD: Rnwy lgts avail. on one hrs notice. For flight thru danger area, permission must be obtained from Cincinnati Airway traffic control center upon entering or prior to departure from ATC area. Inten inst train. being conducted - for danger area description see Wilmington, Ohio. (7-8)

CONNEAUT ARPT-Use moved strips only. (6-4)
COONS ARPT(NEVADA)-Arpt info not yet verified by CAA. (10-11)
DAYTON ARPT-At ngt use rnwys only. Equip on fld. 6' exper bank red approach lgts on extended centerline Rnwy 6-24R approx 425' beyond SW end, being operated intmtly. (7-20)
FINDLAY ARPT-Green rnwy lgts removed form NW end NW/SE rnwy due to const of new 30' hangar NW corner fld adj to CAA bldg. (6-5)
**GALION ARPT-Only 80 oct. (6-19)
GRIESER ARPT (WAUSEON)-Use strips only. (7-3)
GRIMES FLD (URBANA)-Use strips only. Land according to wind tee lctd in center of fld. (5-27)
**HAMILTON ARPT-80, 91 oct. (6-19)
HAYESVILLE (Site 27, Louisville-Cleveland)-Unlgtd 80' twr 1500' S. (8-4)
**JONES ARPT (CHILLICOTHE)-2 strips: 2000 x 140' N/S, 1750 x 160' E/W. (6-19)
**KENT STATE ARPT-80 oct, minor engine and acft repairs. No sto. (6-20)
**KNORE ARPT (MINFORD)-2 strips: 1500' N/S, 2000' NNW/SSE, all 100' wide. (6-19)
LAKEVIEW ARPT (MONTEZUMA)-Soft in spots - hvy acft use stn. (10-5)
**LANSDOWNE ARPT (GREENVILLE)-New fld. 2 mi NNE: RR M. 2 strips: 1800' N/S, 1300' E/W, both 300' wide. Bldgs, hi-line N. (Chicago Chart) (8-12) Info unverified by CAA. Equip on fld intmtly. (8-12)
LIMA ARPT-1320' E portion of fld avail. in emerg only - under cultivation. (7-26)
★LOCKBOURNE AAB (COLUMBUS)-RADIO: Army ILS (CAA type) middle marker keyed six dots per sec. outer marker keyed two dashes per sec. (8-21) Loizr of Army ILS (CAA type) inop for indefinite period. (6-21) FLD: Use rnwys, taxi strips only - shoulders soft. (4-29)
**LORAIN SKYPORT-2 strips: 2950' NE/SW, NW/SE. (7-18) Rnwy info unverified by CAA.
LOST NATION ARPT (WILLOUGHBY)-Const. Pilots use rnwys indicated by wind sock and tetrahedron lctd S side arpt. (7-9)
LUNKEN ARPT (CINCINNATI)-Fast landing acft use stn. Slightly rolling section Rnwy 6-24. Army facs lctd. (6-12)
MANSFIELD ARPT-RADIO: Priv twr and low-powered range (localiser) operate on req or for training. Freq 269 kcs, ident "IV". FLD: Equip on fld (const).
**MANSFIELD ARPT, mun.-New fld: 5 mi N, Lat 40-50-30, long. 82-31-00. Elev 1300. 2 rnwys: 5600 x 150' NW/SE, NE/SW; 2 strips: 7600' E/W, N/S. 73, 80, 91 oct. (Cleveland Chart) (8-12)
MARION ARPT-Use only NE/SW, NW/SE rnwys W side fld. NE/SW, NW/SE strips extend into cultivated area W end of fld. (6-4)
MATHER ARPT (CLEVELAND)-Closed to trans acft xcp on special permission. Const on 1000' NW/SE and 1100' NE/SW rnwys. (8-22)
**MAYES FLD (CHESAPEAKE)-Name changed to Huntington Arpt. (Huntington Chart) (8-23) These data rc'd too late for inclusion on Flight Planning Charts.
McKINLEY ARPT (CANTON)-330' twr Radio Stn WOMW being erected 5 mi WNW (285°) true. (6-9)
**MEDINA PRICHARD ARPT (MEDINA)-80 oct. (6-9)NE/SW strip under const. (10-1)
MIDDLETOWN ARPT-Right traffic pattern taking off to S, SW and W.
**MIDWAY FLD (LEWISBURG)-80 oct sto, minor engine and acft repairs. (8-8) 1 strip: 2600 x 200' E/W. (6-19)
NORWALK ARPT-Ditch N end N/S strip adj to side of road. (7-26)
OHIO STATE UNIVERSITY ARPT (COLUMBUS)-In wet weather use rnwys only.(7-17)
OHIO UNIVERSITY ARPT (ATHENS)-3' ditch W end fld. (5-18)
**PARKS AIRPARK (NORWALK)-80 oct. (6-20)
PARKS WATSON ARPT (CINCINNATI)-Take-offs to the E, NE, SE use right traffic pattern. (4-2)

★PATTERSON FLD (FAIRFIELD)-RADIO: Army ILS (SCS-51) now operating as follows: Serves NE/SW rnwy with approach from NE. Localizer transmitter located 2000' SW of SW end NE/SW rnwy, freq 108.7 mcs. Mag heading for landing: 210°. Glide path transmitter located 1500' SW of NE end NE/SW rnwy 500' from center line on blue sideof localizer course, freq 333.8 mcs. Three marker Beacons: inner marker..09 mi: middle marker, 1.5 mi, keyed six dots per sec: outer marker, 4.5 mi, keyed two dashes per sec, all NE of NE end NE/SW rnwy. System operates 24 hrs daily on req. (8-21) Glide path of Army ILS (SCS-51) unreliable for ceilings under 100'. (7-1) Army GCA sys temp deactivated. (8-16)
PAULDING COUNTY ARPT (PAULDING)-Soft when wet, land at own discretion. (6-7)
PENINSULA (PORT CLINTON)-Scattered vegetation exceeding 18"- lgt acft caution. (8-14)
PORT COLUMBUS ARPT-WAS (COLUMBUS)-Rnwys and taxi strips being resurfaced, all areas mrkd. NW/SE rnwy xcp at intsxn first rnwy closed. 10' bldgs being erected: 400' E of E end E/W rnwy and 250' S of center line of E/W rnwy; 750' E of W end of E/W rnwy and 400' S of center line of E/W rnwy. 18" trenches being dug: on SW side NW/SE rnwy from Admin Bldg to NW end NW/SE rnwy; from Admin Bldg to just W and parallel to Navy opers area terminating at bldg location 400' E of E end of E/W rnwy, mrkd. Neon approach lgts being erected 85' N of center line of E/W rnwy and from W end of E/W rnwy to approx 1500' W. (7-16)
SNYDER ARPT(FOSTORIA)-Arpt info not yet verified by CAA. (10-8)
SULLIVANT AVENUE ARPT (COLUMBUS)-W end E/W strip being extended 900'; S end N/S strip 1000'; SE end NW/SE strip 800'. These extensions are under const and unusable. (6-14)
TAYLORCRAFT ARPT (ALLIANCE)-No radio. Left traffic 800' pattern. Student train. and test flying. Land eqrdg to wind tee atop NE corner of hangar. Use rnwys only. Unlgtd bldgs entire S bndry fld. Trans pilots must register in Opers Office upon arvl and dptr. (8-23)
★TOLEDO ARPT-RADIO: CAA twr now operates 24 hrs daily. (8-16)
TWIN CITIES ARPT (GALLIPOLIS)-Use in emerg only. Cattle on fld. (7-3)
WAYNE WORT MUN. ARPT-80, 91 oct. (6-19)
**WARD ARPT (BEDFORD)-Only 80 oct. (6-18) NE/SW, NW/SE strips rough. (7-3)
**WASHINGTON AIRPARK (WASHINGTON COURT HOUSE)-Only 80 oct. (6-19)
WILLARD ARPT-Only 80 oct. (6-19)
WILMINGTON-Experimental Flying is being conducted within the following described area: beginning at lat 39-41, long. 83-01-30; S to lat 38-48-40, long. 83-02-30; NW to lat 39-11-20; long. 84-00; N to lat, 39-42-10, long. 84-00; E to point of beginning. This area should be avoided at all times.
WRIGHT FLD (DAYTON)-CLOSED TO ALL TRANS MIL ACFT XCP ON AUTHORIZED OFF. BUS. THIS STN OR IN EMERG AND TO ALL TRANS NAVAL ACFT. ALL OTHER ARMY ACFT AND TRANS NAVAL ACFT USE PATTERSON FLD. No svcg 2400 to 0730. Sod area closed. Rnwy, taxiway shoulders soft. Exten exper and training flights. (3-23)
YOUNGSTOWN ARPT-Use rnwys only. Equip on fld. (6-22)
ZANESVILLE ARPT-Use rnwys, taxi strips only,- newly seeded areas. Tetrahedron operates ngts on req only. Rnwy in use lgtd continuously. (6-20)

OKLAHOMA

ALTUS MUN. ARPT-Avail only for delivery surplus mil acft or in emerg. Equip on and near N/S rnwy. (12-13)
**ARDMORE ARPT-SITE 10,FORT WORTH-WICHITA-Only 80, 91 oct. (8-10) Being used by A.A., avail trans acft in emerg only. No fuel or svcg avail trans acft - use Ardmore Mun. Arpt. (6-3)
CHICKASHA ARPT (OKLAHOMA CITY)-Use rnwys only. (6-6)
**CLOW ARPT (TULSA)-4 strips: 3140' N/S, 2000' E/W, 3000' NE/SW, NW/SE, all 150' wide. Only 80, 91 oct. (6-28)

OKLAHOMA (Continued)

CHICKASHA FLD-CLOSED -under supervision Defense Plant Corp. (8-4)
CIMARRON FLD (YUKON)-Now a MAA Sales and Storage Center. No svcg, repairs or overngt sto. Planes parked on fld. 4 strips indicated by pylons and marker. Line markings center of each strip. (5-26)
ENID AAF-Inten train. below, above, and in overcast 25 mi radius of stn. Acft inbound to fld or operating in vicinity under IFR ctc Enid Radio for inst approx 25 mi out, clear into fld 500' on top, or circumnavigate fld by 25 mi, if overcast. Ltd parking facs. Use rnwys, taxiways only. (5-8)
GARTHOEFFNER COUNTRY CLUB (OKLAHOMA CITY)-Only N/S, NW/SE strips avail. (8-3)
GREAT SALT PLAINS BOMBING RANGE (JET)-Trans acft land at Enid AAF for permission to use this fld. (6-10)
GUTHRIE (Site 21, Fort Worth-Wichita)-Const. Equip on fld. Temp N/S strip avail. during const period. Bndry lgts to be decomm soon. Green course lgts changed to red. (5-21)
**GUYMON ARPT-Correct location: 7/10 mi S; RR, hwy W. Lat 36-40-15, long.101-29-00. 73 oct, maj engine and acft repairs. No sto. (Wichita Chart)(5-11)
**HARVEY YOUNG ARPT (TULSA)-4 strips; 2000' E/W, 2600' N/S, 2600' NNE/SSW, 1600' NW/SE, all 300' wide. Only 80 oct, sto, maj engine and acft repairs. (5-28)
HATBOX FLD-MUSKOGEE ARPT (MUSKOGEE)-Use rnwys only - parked acft.
LAWTON ARPT-Obst lgts inop. Bndry, flood lgts on req. (7-24)
MAX WESTHEIMER FLD (NORMAN)-Avail all acft up to 30,000 lbs, days only. Left traffic pattern; lgt acft 800', heavy acft 1000'. Lcl traffic avoid flying over bldgs on N Campus. All traffic avoid flying over corporate limits of Norman unless having vertical clearance of 2000' or more. (7-13)
**MUNICIPAL ARPT (BOISE CITY)-New fld. 3 mi N; hwy W. Lat 36-16-30, long. 102-30-30. Elev 4200'. 2 strips: 2400' N/S, 3300' NE/SW, both 100' wide. (Trinidad Chart) (5-11)
NEWKIRK SKYPARK-NW/SE strip under const. (8-3)
NUCKOLS FLD (OKLAHOMA CITY)-Use rnwys only. (1-14)
PERRY ARPT-Trans mil acft land at Enid AAF for permission to use this fld. (5-8)
PHILLIPS ARPT (BARTLESVILLE)-Equip on fld. Sodded area W of rnwy avail N/S landings. (8-10)
PONCA CITY ARPT-Obst lgts inop atop 175' twr 1 mi S Ponca City Arpt. (8-27)
POST FLD (LAWTON)-Closed to all xcp liaison type acft. Ext const. Equip on entire W half, and NW portion fld. Closed ngts. Flash. beacon atop balloon hangar inop. Ctn: Soft spots. Const on rnwys. (6-14)
SHAWNEE ARPT-Use rnwys, taxi strips only. (4-20)
TINKER FLD (OKLAHOMA CITY)-RADIO: Army range reported unreliable for orientation and homing. Army DF stn temp inop. FLD: Obsts on sodded area S of NE/SW rnwy. Equip on Airdrome. (4-26)
**TULSA ARPT-Correct loc 6-1/5 mi NE: RR S, hwy E, 6 rnwys: 4200', 7000' N/S (dual):7064' E/W: 7000' NE/SW (dual): 6380' NW/SE, all 150' wide. Only 80, 91,100 oct. sto. maj engine and acft repairs. (Tulsa Chart) (5-28) Pilots without radio watch twr ltcd SE corner fld for lgt signals. Helicopter area parking ramp mrkd with yellow and white circles with red "H" in center. Use rnwys, taxi strips only. (3-26)
**TULSA NORTH ARPT (TULSA)-80, 87 oct. (5-28)
WILL ROGERS FLD (OKLAHOMA CITY)-Ditch at approach end Rnwys 30, 35, lgtd. (8-13)
WOODRING FLD (ENID)-Use rnwys only. (8-5)

OREGON

BAKER ARPT-Use rnwys only. Erecting 25' bldgs adj to and outside bndry lgts - approx 700' E of N/S rnwy and 700' S of E/W rnwy, unlgtd. Equip. on fld days. Three 40' poles, 700' S of E/W rnwy and 1000' E of N/S rnwy unlgtd. (8-7)
EUGENE-RADIO: All courses have multiples. (7-30)
EUGENE AIRPARK-Equip. on NW/SE rnwy. Use N/S rnwy. (7-20)
GRANTS PASS AIRPORT-Caution when wet. Traffic lands to N, takes off to S - steep grade. (6-5)
**HERMISTON MUN. ARPT-New fld. 1-7/10 mi SE; rlv N. Lat 45-49-30, long. 119-16-00. Elev 635'. 1 strip: 2300 x 150' NNE/WSW. 80 oct. (La Grande chart). (6-20)
KLAMATH FALLS-RADIO: Range flight-checked Aug 20, courses correctly aligned.
**MAHLON SWEET FLD (EUGENE)-No fuel for transients ngts or Sat, Sun and holidays. (8-26) Equip. on fld. Use rnwys only. (8-26)
MEDFORD-RADIO: Range flight-checked Aug 31, courses correctly aligned. All courses have multiples.
MEDFORD AIRPARK-Temp closed. (12-9)
MEDFORD AAF-RADIO: CW freqs of AACS, ground to air sta temp inop. FLD: Use rnwys, taxi strips only. Tetrahedron controllable from twr until wind reaches velocity of 10 mph. No bndry or flood lgts. No Army opers or svcg 2000 to 0500. (7-3)
PENDLETON-RADIO: All courses have multiples with signal fades and surges.
**PENDLETON ARPT-Correct elev 1492'. (La Grande chart). (8-16)
**PIERCY FLD (MEDFORD)-80 oct, minor engine and acft repairs. No sto. (8-24)
PORTLAND-RADIO: Stevenson, Wash. FM commissioning delayed indefinitely.(7-4)
PORTLAND AAB-East N/S rnwy avail. taxiing only. Flash. lgts on tetrahedron indicates suspension CFR flights. 100 oct, ltd 73 oct avail. Ltd JP-1 fuel avail. (8-10)
**PORTLAND BIRDSDALE ARPT (PORTLAND)-New fld. 8-1/2 mi E; RR N, hwy S. Lat 45-31-45, long. 122-26-45. Elev 220'. 1 strip: 2300 x 150' ESE/WNW. 80,91 oct, sto, major engine and acft repairs. (Portland chart). (5-21)
ROSEBURG (Site 41A, San Francisco-Seattle)-Unlgtd 100' pole 1200' S, 300' E of S bndry. (8-20)
THE DALLES-RADIO: All courses have multiples with signal fades and surges.
TILLAMOOK-RADIO: Navy range temp inop. (7-19)
TROUTDALE AIRPORT-Surplus Acft Sales Center - parked acft.

PENNSYLVANIA

ALBERT AIRPORT (PHILIPSBURG)-Const S end N/S strip. (5-31)
ALLENTOWN-BETHLEHEM AIRPORT (ALLENTOWN)-Areas off rnwys soft in wet weather. Floodlgts Rnwys 9, 14, 18 inop. (5-18)
★ALTOONA-RADIO: Bear. and dist, range sta to Altoona-Blair Co Arpt: 203°, 1.3.
**ALTOONA BLAIR COUNTY AIRPORT-SITE 24A, COLUMBUS-PHILADELPHIA-Correct elev. 1495'. (Cleveland chart). (8-20) Use rnwys only. (8-13)
BARRETT AIRPORT (CANADENSIS)-CLOSED (const). (6-11)
BEAVER FALLS AIRPORT-Patterson Heights Arpt, 1.5 mi S Beaver Falls is not under const, entirely avail. New fld, Beaver Falls Arpt, closed (under const and soft). (3-30)
**BENEDICT ARPT (CHESTER)-2 strips: 2000' NW/SE, 2600' NE/SW. (8-5). Rnwy info unverified by CAA.

**BLOOMSBURG ARPT-2 strips: 3000' NE/SW, 3150' E/W, both 500' wide. (6-1)
BUTLER-ALAMEDA ARPT (BUTLER)-Pilots avoid hospital area adj arpt. Use right traffic pattern on W take-off. (7-9)
CARLISLE ARPT-NW/SE strip under const. Use ENE/WSW strip only. (6-11)
CECIL-RADIO: Visual and aural FM signals reported in vicinity of Imperial, Pa. (7-17)
CHAMBERSBURG-High explosives being discharged approx 7 mi NW thru Feb 5, 1947, daily Mon thru Sat 0800 to 1700 within the following area: N bndry lat. 40-01; S lat 39-59-30; E long. 77-47; W long. 77-49. (8-3)
**CONNELLSVILLE ARPT-Open to civil acft. 80 oct, sto and svcg avail. (Huntington chart) (8-16)
**COB HAVEN ARPT (LOCK HAVEN)-80 oct. (8-26) Use rnwys only. (8-13)
**DALEVILLE ARPT-Only 80 oct. (5-28)
**DANVILLE ARPT-Only 80 oct. (6-1)
**EAST SCRANTON ARPT (SCRANTON)-7-3/10 mi ESE; lake E. Lat 41-23-15, long. 75-31-30. Elev 1660'. 1 strip: 2300 x 300-500' N/S. Trees S, N. (New York chart) (5-28)
GREATER PITTSBURGH ARPT (PITTSBURGH)-Use rnwys only - shoulders soft. CFR plans only. Ltd army facs. No 91 oct. No sto. First 500' of Rnwy 23 closed (const). Equip. on fld. (8-5)
HARRISBURG STATE ARPT (HARRISBURG)-Use rnwys only. Do not use lock-wheel turns at ends of rnwys. (6-28)
**HOOMESVILLE ARPT-3/5 mi S; Crk E. Lat 41-13-45, long. 76-43-45. Elev 570' 1 strip: 1240 x 550-650' NE/SW. Trees NE. Sto. No fuel. (New York chart)(5-31)
JOHNSTOWN ARPT-Use rnwys only. (7-1)
**JOHNSVILLE ARPT-RADIO: Navy twr temp inop on Sun. (4-26) FLD: Rnwys lengthened to 3720' NE/SW (4-22), 4560' E/W (9-27), 2920' NW/SE (14-32), all 150' wide. Gross weight: NE/SW 32,000 lbs, E/W 60,000 lbs, NW/SE 32,000 lbs. (8-9)
KAISER FLD (BRISTOL)-Rnwy shoulders soft, unsafe for heavy acft during wet weather. Use rnwys only. (5-27)
LANCASTER ARPT-Drain-pipe on either side NW/SE strip, marked, stay between red flags. Sinkhole on extreme E end E/W strip, marked. 2 holes S end N/S strip, marked. (6-27)
**LEHIGHTON ARPT-Only 80 oct, sto, minor engine, major acft repairs. (6-3)
MILLBROOK-RADIO: VHF range temp shut down. (5-10)
MT. POCONO AIRPORT-SITE 21, BUFFALO-NEW YORK-Shoulders NE/SW rnwy rough, not graded. Hazardous ruts along S side NW/SE rnwy. Use rnwys only. (5-22)
MOUNT UNION ARPT-Use strips, taxiways only. Strips unsafe in wet weather (rough). During wet weather use rnwys only. (6-28)
MUSTIN FLD NAAS (PHILADELPHIA)-Avail. ngts to pilots familiar with fld and surrounding obsts. Pilots unfamiliar with fld and surrounding obsts and transport planes over 9000 lbs use Philadelphia Southwest Arpt for ngt landings and take-offs. Closed to acft 50,000 lbs or over. Left traffic pattern at 1000'. (8-5)
**OLMSTED FLD (MIDDLETOWN)-Req all flights of three or more acft not use this fld as fuel stop due to ltd parking facs for trans. (8-20) Ngt landings hazardous. Obsts adj fld. 81' high tension wires across approach zones Rnwys 29, 14. Lgtd obsts between Rnwys 29, 32, approx 1000' from rnwys. Two 150' obsts right of Rnwy 29, lgtd. Ridges to WSW, ENE 300 to 700' higher than fld. Closed to B-29 opers. (4-10)
PARKER CRAMER ARPT (CLARION)-CLOSED (const). (5-24)
**PHILADELPHIA NORTHEAST ARPT (PHILADELPHIA)-80, 91 oct. (8-23) Avail. radio-equipped acft. Use rnwys only. Equip. on fld intermittently days. (8-16)

**PHILADELPHIA SKY PORT SEAPLANE BASE (PHILADELPHIA)-Center of city; on W shore Delaware River. Lat 39-57, long. 75-08. Elev 10'. Landing area unlimited. Fuel, sto, major engine and acft repairs; boat; all facs. (Washington chart) (7-24) Infor unverified by CAA.
PHILADELPHIA SOUTHWEST ARPT (PHILADELPHIA)-Closed to non-radio equipped acft. Digging cable trenches on ESE, WSW sides Rnwy 4-22, both 20' from rnwy edge, parallel to rnwy for 1600'. Trench 500' long, parallel to and 20' from N side Rnwy 9, W of Rnwy 4. Trenches marked. Use rnwys only. NW/SE Rnwy 12-30 closed (const. Floodlgts on Rnwy 17 inop. (7-25)
PITTSBURGH-ALLEGHENY COUNTY ARPT (PITTSBURGH)-Army acft use only in emerg or on written orders. Use Greater Pittsburgh Arpt. Outgoing AAF flights clear thru AAF Flight Service. N/S rnwy closed. Equip on fld, marked. Closed to non-radio equipped acft. (7-18)
PITTSBURGH-BETTIS ARPT (PITTSBURGH)-Right traffic on NE and NW rnwys. (6-4)
PITTSBURGH-BUTLER ARPT (BUTLER)-Land in accordance with wind tee. Wind cone atop hangar for wind direction only. (7-24)
PUNXSUTAWNEY ARPT-WNW end ESE/WNW strip closed. (8-5)
**READING ARPT-Fuel, sto, major engine and acft repairs. (8-8) Ridges S and E within 4 mi of fld up to 1200' MSL. Equip. on fld days. (3-30) Right traffic pattern on Rnwys 13 and 18. (6-11)
**SHAMOKIN ARPT (ELYSBURG)-80 oct. (6-4)
**STROUDSBURG-E. STROUDSBURG ARPT (STROUDSBURG)-Only 80 oct. (5-28)
**WANDA ARPT-Only 80 oct. (5-31)
VALLEY FORGE ARPT (NORRISTOWN)-E/W, NE/SW strips avail. NW/SE under const. On take-offs to and landings from E or NE use right traffic temp; on W or SW use left traffic. (5-29)
VANDERGRIFT ARPT-Being repaired - use only center of strips. (4-25)
**WILKES-BARRE-RADIO: Bear. and dist, stn to Wilkes-Barre-Wyoming-Valley Arpt: 243°, 2.6 mi. (8-27) FLD: Use rnwys only. Closed ngts - all lgts inop. (8-2)
WILLIAMSPORT ARPT-Closed ngts. Lgts avail. emerg landings only. (6-22)
WILLOW GROVE NAS-Fld soft. Avail. ngts to acft on off. mil. bus. only. One hr notice required after sunset for fld lgts. (6-7)

PUERTO RICO

SAN JUAN-SPECIAL NOTICE-ISLE GRANDE ARPT is part of U. S. Naval Air Stn, San Juan. Comm ads carriers may not use fld without specific authorization from Chief of Naval Opers, Wash. D.C. Commanding Officer NAS San Juan may grant pmsn for one or two isolated landings. Proper authority must be obtained prior to landing. Private acft in a ferry status must obtain pmsn from Commanding Officer before landing at Isle Grande Arpt. (8-21)

RHODE ISLAND

CHARLESTOWN NAAS-RADIO: Navy GCA fac temp inop. (5-27) FLD: Const. Low alt formation break-up. Use caution below 1000' alts. Equip. on Rnwy 4-22.
GREENE, THEODORE FRANCIS, ARPT (PROVIDENCE)-Use rnwys only. Turf channels avail. local instruction purposes only. (5-23)

SOUTH CAROLINA

**CHARLESTON ARPT-This fld is still used by navy. No sto, or svcg for navy acft; emerg ltd fuel. (8-27) These data rc'd too late for inclusion on Flgt Planning Charts. Correct elev 45'. (Savannah chart)(8-14) Lgtd bldg under const in sodded area between NW/SE rnwy and taxi strip 1500' S on NE end Rnwy and 325' from edge. 10' antenna shelter 45' long being erected on center line 1200' from SE end NW/SE rnwy, marked. Hole 2' deep NE side intersection Rnwys 10-28 and 15-33 - pwr line 2' above ground extending NE from hole to taxi strip at SE corner parking apron at E side fld, marked. Use rnwys only. (8-24)
**CHESTER ARPT-80 oct, minor acft and engine repairs. No sto. (5-17)
CLARK FIELD (CHARLESTON)-Strips rough. (4-19)

SOUTH CAROLINA-Continued

COLUMBIA AAB-Temp inactive. No facs. (See Special Notice re use).
FLORENCE ARPT-Closed sunset-sunrise (bcn, rnwy, obst lgts inop). (7-12)
**GEORGETOWN ARPT-80, 91 oct. (6-12)
GEORGETOWN COUNTY ARPT (GEORGETOWN)-Equip. on rnwy shoulders. Bcn inop.(3-10)
GREENVILLE ARPT-Bndry lgts E end SE fld inop. Wind tee removed, tetrahedron lgts inop. Non-radio acft watch control twr for landing direction. (8-16)
GREENVILLE AAB-Only 73, 100 oct. No mntnc facs 1700 Fri thru 0800 Mon. Wind tee removed. Tetrahedron lgts inop. (8-5)
**LYNCH BELLINGER ARPT (CHERAW)-80 oct, minor acft, engine repairs. No sto. (5-29)
MEMORIAL ARPT (SPARTANBURG)-Use rnwys, taxi strips only. Ctc lgts inop.(7-19)
MYRTLE BEACH AAF-Inst train. at 1000 to 5000' alts 50 mi radius during IFR. (6-19)
NORTH ARPT-Temp inactive. No facs. (See Special Notice re use).
OWENS FLD (COLUMBIA)-RADIO: Soon, DT fac of CAA range will be relctd at Lexington County Arpt. (6-16) FLD: Use rnwys only. Req pilots avoid pivoting acft on NW end NW/SE rnwy. Small acft parked on ramp front Admin Bldg, marked. (8-14)
**PARRIS ISLAND MCAS-Facs only for Fleet Marine Acft. (7-31) Use in emerg only (caretaker status - no facs).
**RODDEY ARPT (ROCK HILL)-80, 91 oct, sto, minor engine repairs. (5-17)
**ROWE ARPT (BENNETTSVILLE)-2 strips: 2900 x 240' N/S, 1300 x 135' ENE/WSW. 80, 91 oct, sto, major acft and minor engine repairs. (5-29)
WOODWARD FLD (CAMDEN)-RFC planes parked entire fld off rnwys. Use rnwys, taxi strips only. No facs for closing flight plans other than tlfo. Flight plans should be closed by radio with Shaw Fld twr before landing. Closed ngts. (1-10)

SOUTH DAKOTA

ANDERSON ARPT (MITCHELL)-Use strips only. (5-7)
BELLE FOURCHE ARPT-SE end NW/SE strip rough. Avoid S end N/S strip beyond intersection of E/W strip. Loose gravel around new hangars and taxi strip leading to NW/SE strip. All strips soft when wet. (8-5)
BIEDENFELT FLD (FAULKTON)-Hay stacks on fld.
BROOKINGS ARPT-Use strips only - fld soft in wet weather. (8-5)
**BUFER-KANNEGIETER ARPT (WILLOW LAKE)-New fld. 1½ mi E. Lat 44-37-30, long. 97-33-30. Elev 1787'. 1 strip 2200' NW/SE. 73 oct, sto. Pole line N. (Aberdeen chart)(8-20) Info unverified by CAA.
PIERRE ARPT-Tetrahedron unreliable. (6-18)
**PLATTE ARPT-New fld. 1.4 mi NE. Elev 1612'. Longest strip 2350' NW/SE. 80 oct. (Sioux City chart) (7-16) Info unverified by CAA. Use strips only.
RAPID CITY-Intensive air-to-air gunnery is being conducted approx 35 mi SE thru Sept 30, within an area bounded as follows: N by lat 43-41; S by lat 43-30; E by long. 102-01; W by long. 102-50. (8-30)
RAPID CITY AAB-RADIO: Army ILS (SCS-51) temp suspended. AACS, ground to air stn inop on all freqs. (6-10) FLD: Obst lgts inop on hills N and NW and within 4 mi S and on NW radio range twr 5 mi SSE. (7-25)
**SIOUX FALLS ARPT-80, 91 oct. (8-19) Use rnwys only. Tetrahedron removed. (8-19)
WATERTOWN COMMERCIAL ARPT-Use in emerg only (no facs). 10 unlgtd 80' poles erected 3500' E of S end N/S rnwy. (8-20)
W. W. HOWES ARPT (HURON)-CLOSED TO ALL MIL ACFT EXCEPT ON OFF. BUS. THIS ARPT OK IN EMERG AND TO ALL ACFT EXCEEDING 25,500 LBS. Blinding 30 million candle pwr ceilometer 1000' NW bcn. (8-29)

TENNESSEE

**BERRY FLD (NASHVILLE)-No navy activity. (8-27) These data rc'd too late for inclusion on Flgt Planning charts. Use rnwys only, rnwy, taxiway shoulders soft. Neon approach sys NW end Rnwy 15-33 being dismantled and moved to S end Rnwy 2L-20R. (7-20)

TENNESSEE-Continued

**CHATTANOOGA ARPT-Only 80, 91 oct. (8-26) These data rc'd too late for inclusion on Flgt Planning Charts.
**CORNELIA FORT AIRPARK (NASHVILLE)-Correct elev 420'. 2 strips: 3000 x 400' NE/SW; 2000 x 300' N/S. (8-23) Landings and take-offs to S use left hand traffic, to N right hand traffic. (7-24)
CUMBERLAND FLD (NASHVILLE)-Strips under const. (1-26)
★DYERSBURG ARPT-RADIO: Army ILS (SCS-51) discont. (8-21)
EMERY RIDDLE FLD (UNION CITY)-Use rnwys only - parked acft.
KNOXVILLE-RADIO: Range flight-checked Aug 20, courses correctly aligned. Heavy multiples E course.
**KNOXVILLE-McGHEE TYSON ARPT (KNOXVILLE)-RADIO: CAA twr now oper cont.(8-29) FLD: S taxi strip closed. No parking on ramp front of Admin Bldg any time day or ngt. Army acft rstd from refueling xcp in extreme emerg. (8-28)
LEBANON ARPT-Soft spots in E/W and NE/SW strips near intersection; avoid using after heavy rains and thaws. (11-26)
McKELLAR ARPT (JACKSON)-Use rnwys only - parked acft.
**MEMPHIS ARPT-Glide path transmitter bldg 22' high lctd on sod area 275' S of and 650' from W end E/W rnwy. VHF lclzr bldg 37' high lctd 1000' from E end E/W rnwy. Bldgs marked, obst lgtd. (8-22) Fld badly eroded. Use rnwys only - shoulders soft. Area approx 75 x 50' SW corner loading ramp just E of SW end NE/SW rnwy closed (const). Acft parked S end taxi strip W side fld. Equip. on fld. Avail. private acft equipped with fully functioning 2-way radio transmitting on one of the following freqs: 3105, 4495,6210 kcs. Other acft may land by obtaining previous authorization from CAA inspector. Student instruction in private acft not permitted. Const on ramp SW end fld adj Airline Terminal Bldg, marked. Drag line operating near SW end NE/SW rnwy. Neon approach lgts inop - being relctd. (8-5)
**MEMPHIS FLYING SERVICE ARPT (MEMPHIS)-Longest strip 3500'. Bndry, obst,flood lgts. No bcn. Lgts prior req. 80, 91 oct. (Chattanooga chart)(8-15) Rnwy and lgtg fac info unverified by CAA.
MEMPHIS NAS-CLOSED NGTS EXCEPT IN EMERG. Flight plans should be addressed to "MEMPHIS NAVY". Ngt flying in 5 mi radius up to 2500'. Exten flight opers in 15-mi radius. Traffic left at 1000'. Rnwys and mats being resurfaced. Red rot. beacon indicates IFR. (8-6)
NASHVILLE-RADIO: About Sept 5, FM will be comm at Mt. Juliet, Tenn. at lat 36-12-00, long. 86-28-35, lctd 9.6 mi from range sta. Ident will be one dash (-). Bear. and dist, range sta to FM will be: 66°, 9.6 mi. (8-1)
SMITHVILLE-RADIO: Severe multiples all courses.
★SMYRNA AAF (NASHVILLE)-RADIO: Army ILS (SCS-51) now operating as follows: Serves NE/SW rnwy with approach from NE. Lclzr transmitter lctd 1240' SW of SW end NE/SW rnwy, freq 109.5 mcs. Ident "DSY" (- . . . . . - . - -) Mag heading for landing: 230°. Glide path transmitter lctd 600' SW of NE end NE/SW rnwy, 400' from centerline on blue side of lclzr course, freq 335 mcs. Three marker bcns: inner marker, .04 mi; middle marker, .81 mi, keyed six dots per sec; outer marker, 4.31 mi, keyed two dashes per sec, all NE of NE end NE/SW rnwy. Sys operates on req to twr 0900 to 1700 daily except Sun. (8-21) Sys temp inop. (6-25) AACS, ground to air sta and DF fac on 4765, 4890 kcs voice, 2796, 5200 kcs CW temp inop. (5-31)
TRI-CITY ARPT-Army acft rstd from refueling except in extreme emerg. Bcn inop. (8-28)

ABILENE AIR TERMINAL (ABILENE)-RADIO: Soon, CAA twr freq will be changed to 278 kcs, 118.7 mcs. (8-9) FLD: E/W rnwy closed - avail. on permission from twr. Equip on fld days. Ditch 12" deep, approx 150 x 25' adj to and extending into NW/SE rnwy at intersection of N/S rnwy and across N/S rnwy. Ditch 12" deep, approx 500 x 20' from E end ramp adj S edge E/W rnwy. Areas mrkd. (8-20)

ABILENE AAF-Temp inactive. No facs.(See Special Notice re use).

ALAMO (SAN ANTONIO)-RADIO: Sept 1, scheduled bdcast will be discont on range. Class will be: MLZ-VDT.

ALCE AAF (VICTORIA)-Temp inactive. No facs. (See Special Notice re use). Use rnwys only. (5-1)

ARLEDGE FIELD -MAIN AIRDROME (STAMFORD)-Use rnwys only - parked acft. Sod soft after rains. Wind tee removed. Wind socks on N and S hangars. (6-3)

AMARILLO AAF-RADIO: AACS, gnd to air sta temp inop. (6-25)

ARLINGTON (MIDWAY)ARPT- All rnwy lgts inop. NE/SW rnwy unsafe; NW/SE rnwy usable with ctn. (4-13)

ASHERTON ARPT-High brush - use strips with ctn. (6-11)

AUSTIN-RADIO: Range flight-checked, courses correctly aligned, break in stn location mrkr light pattern. (5-23)

BERGSTROM FIELD (AUSTIN)-RADIO: Army ILS (SCS-51) temp inop. (6-25) FLD: ** Lgtd 90' pole NW control twr, 550' from middle Rnwy 13L. (8-7) Rnwys NE/SW, 13L-31R, 8-26 closed. (8-7)

★BIGGS FLD (EL PASO)-RADIO: Army ILS (CAA type) middle mrkr keyed six dots per sec. outer mrkr keyed two dashes per sec. (8-21) Army ILS (CAA type) temp inop. (5-16) FLD: Const on rnwys. Army acft with destination White Sands Proving Gnds clear thru Biggs Fld. Dirt landing strip at old fld closed for resurfacing. (8-16)

BROWNSVILLE-RADIO: 3105, 4495, 6210 and 3117.5 kc receivers temp inop. (8-23)

BRUCE FLD (BELLINGER)-Use rnwys only - parked acft.

BRYAN AAF-Temp inactive. No facs. (See Special Notice re use)

CAMP HOOD LANDING FLD (KILLEEN)-CLOSED XCP ON OFF. BUS. THIS STN OR IN EMERG. AAF oper facs avail. Ngt opers on previous arrangements. Right traffic to N, left to S overhead approach. E/W rnwy closed. (6-28)

**CENTRAL VALLEY ARPT (MERCEDES)-New fld. 1½ mi NE; hwy S. Elev 62'. 1 rnwy 3100' NW/SE. 80, 91 oct., sto, maj engine and acft repairs. (Corpus Christi chart)(8-6) Info. unverified by CAA. Class: 31h S6

CHILDRESS-RADIO: VHF range will be comm soon at lat 34-22-12, long. 100-17-1? lctd approx 5½ mi SW of the city of Childress. Freq. 109.1 mcs. Ident "CM" (- . - . - -) Visual courses: 53° and 233° Aural courses: 323° and 142°. (7-25)

CHILDRESS AAF-Temp inactive. No facs. (See Special Notice re use).

**CLARKSVILLE MUN. ARPT-New fld. 2-4/5 mi NNW; RR SW, hwy adj E. Lat 33-38-45, long. 95-03-45. Elev 480'. 2 strips: 2000' N/S, 1400' NW/SE, both 200' wide. 73, 80 oct, sto, maj engine and acft repairs. (Shreveport chart)

CLEVELAND-RADIO: VHF range operating on exper basis, at lat 30-15-36, long. 94-58-00. Freq 109.1 mcs. Ident "CL" (- . - . . - . .) Visual courses: 15°, 195°, Aural courses: 105°, 285°.

★CLIFF MAUS FLD (CORPUS CHRISTI)-RADIO: CAA twr freq will be changed soon to 278 kcs, 118.3 mcs. (8-9) Effect Sept 1, twr opers cont. FLD: All acft xcp air carrier ctc Corpus Christi Radio for rnwy lgts between 2300 and 0700. Use rnwys only during wet weather. (9-2)

CONROE ARPT-Use in emerg only - no facs.

CORSICANA ARPT, mun-UNUSABLE. Acft parked entire fld. (2-6)

COX AAF (PARIS)-Temp inactive. No facs. (See Special Notice re use).

**CRUVER ARPT-New fld.-7/10 mi WNW; RR E. Lat 36-16, long. 101-25. Elev 3200'. 3 stripe: 2400' NE/SW, 4000' E/W, 2200' NW/SE, all 100' wide. Pole line

CUERO ARPT-In wet weather, land as near the ramp as possible. Use ramp only in emerg. Center portion fld soft in wet weather. No svcg or lgts. landings should be made within orange cone bndrys. Use strips only - parked acft.

ELDORADO ARPT-E/W strip soft in wet weather. (12-11)

ELLINGTON FLD (HOUSTON)-Closed to very heavy bombardment acft xcp in emerg. Temp. inactive. No facs. (See Special Notice re use).

EL PASO MUN. ARPT-ED ANDERSON FLD (EL PASO)-Const 400' to left and 1000' from the approach end of Rnwy 22. (5-17)

ENGLISH FLD (AMARILLO)-RADIO: AACS, gnd to air stn oper temp suspended.(2-5)

** FLD: Neon approach lgt, land comm on NE end NE/SW rnwy. 5 inst approach lgts W of fld discont. (Oklahoma City chart)(8-14) Use rnwys, taxi strips only. Army temp inactive - civil. facs. (7-26)

**FAY BROS. SEAPLANE ANCHORAGE (LA PORTE)-2 mi NE; on San Jacinto Bay; 15 mi SE Houston. Lat 29-41, long. 95-00. Elev sea level. Landing area unltd any direction. Floats; marine railway; fuel, minor engine, acft repairs No sto. (San Antonio chart)(5-15) Info. unverified by CAA.

FORT WORTH AAF-RADIO: AACS, gnd to air stn temp inop. (7-25) FLD: Lgts atop poles NW edge fld inop. Only Rnwy 17R-35L avail. days. Only Rnwy 17L-35R avail. ngts. Heavy const on rnwys. (7-25)

**GAGE ARPT (TEAGUE)-New fld. 1-7/10 mi N. Lat 31-39, long. 96-17. 1 strip: 2150 x 300' N/S. 80 oct, sto. (Austin chart)(7-18) Info. unverified by CAA.

GAINESVILLE AAF-Use rnwys only. (8-10)

GASKIN FLD (SHERMAN)-Use rnwys only.

GIBBS FLD (FORT STOCKTON)-Use rnwys only - parked acft. Use only in emerg.

GILCHRIST ARPT (WICHITA FALLS)-Strips soft when wet. Pumping well approx 500' from NW end NW/SE strip. Use strips only. (5-22)

GOODFELLOW FLD (SAN ANGELO)-Use rnwys only. Ctc Goodfellow Radio 15 out in IFR weather. Acft flying N or E on range mntn odd 1000' alts. Acft flying W or S mntn even 1000' alts unless otherwise advised by Goodfellow Radio. Lol inst acft using range. Ltd parking, svcg facs. Inten primary train. Mon thru Fri; trans acft will normally use right traffic. (4-24)

GRANBURY-RADIO: Range flight-checked Aug 13, oper unreliable (interference)

GRAND PRAIRIE OLR-CLOSED TO ALL TRANS ACFT XCP FTs. Ngt train. within glidin range from sunset to mdngt at alts to 2000' above terrain. (7-1)

HANDLEY ARPT-Rnwy info. not yet verified by CAA. (10-22)

**HARLINGEN ARPT, mun.-Bcn, bndry, ctc lgts. All lgts prior req. (Corpus Christi chart)(8-5)

HAWKINS (Site 12, Fort Worth-Atlanta)-Fld will be discont. about Sept 4. Bcn will remain in oper. (8-21)

HEARNE (Site 15, Galveston-Waco)-Bcn inop. (5-16)

HENSLEY FLD (DALLAS)-Lgt acft operating at 500' pattern alts. (7-31)

HICKS FLD (FORT WORTH)-Use strips only - parked acft. (4-25)

HITCHCOCK MAP-LTA-RADIO: 6390 kcs transmitter and rcvr temp inop. (3-12)

HOLMAN ARPT (WICHITA FALLS)-Use strips only. Ctc Wichita Falls Radio for ngt landings. (5-12)

HOUSTON ARPT-Use rnwys, taxi strips - ditches parallel E/W, N/S, NW/SE rnwys and N/S taxi strip. Equip on fld. (8-12)

JEFFERSON COUNTY ARPT (BEAUMONT)-Closed to trans acft xcp in extreme emerg. Const equip on fld. No facs. (6-18)

KELLY FLD (SAN ANTONIO)-Acft on fld. Use rnwys only. CFR ngt flying being coordinated vcnty Kelly Fld Mon thru Fri between 1700 and 2400. Traffic [illegible] and inclg 40' MSL. 190' lgtd twr const W Rnwy 14-32. [illegible] Gov't owned acft [illegible] W half fld. Use rnwys only. [illegible]

LAUGHLIN FLD (DEL RIO)-Temp inactive. No facs. (See Special Notice re use).
**LOVE FLD (DALLAS)-Bcn, bndry, etc, flood, inst approach, obst lgts, 73-100 oct, Maj acft and engine repairs. (8-29) Rnwy 4-22 closed. Soft and along taxi stripe when wet. 30 million candlepower ceilometer projector placed in oper 1000' N of control twr. Drag line and 40' crane on N end N/S rnwy days. (6-14)
LUBBOCK AAF-Temp inactive. No facs. (See Special Notice re use).
MARFA AAF-Temp inactive. No facs. (See Special Notice re use).
MATAGORDA ISLAND-Flare-dropping activities being conducted, thru Sept. 18, within following described area: beginning at lat 28-21-30, long. 96-26-30; SE to lat 28-14, long. 96-21-30; southwesterly paralleling the shoreline 7 mi offshore to lat 27-58, long. 96-46; NW to lat 28-05, long. 96-56; northeasterly along a curved line, touching the northwesterly points of Matagorda Island to point of beginning.
MATAGORDA ISLAND BOMBING AND GUNNERY RANGE (MATAGORDA ISLAND)-Temp inactive. No facs. (See Special Notice re use)
MEACHAM FLD (FORT WORTH)-RADIO: CAA ILS will be comm soon serving N/S rnwy with approach toward S. Mag. heading for landing: 173°. Voice-equipped lclzr will operate on 109.9 mcs. Glide path on 333.8 mcs. Two mrkr bcns: Outer mrkr 4.09 mi N of N end N/S rnwy, keyed 2 dashes per sec; middle mrkr 0.7 mi N of N end N/S rnwy, keyed with alternate dots and dashes. (6-4) FLD: In wet weather use only rnwys and taxi strips. Obst lgts atop 125' smokestack 1/4 mi E inop. (4-10)
MIDLAND AAF-Temp inactive. No facs. (See Special Notice re use).
MINERAL WELLS ARPT, new-Use rnwys, taxi strips only, graded areas unsafe.
**MT. PLEASANT MUN. ARPT-New fld. 2-4/5 mi ENE; RR S, hwy N. Lat 33-10-45, long. 94-55-45. Elev 393'. 1 strip: 2000 x 400' N/S. 80 oct. (Shreveport chart)(4-26)
**MUNICIPAL ARPT (SPEARMAN)-New fld. 4/5 mi NW; RR SE. Lat 36-12-30, long. 101-12-15. Elev 3104'. 1 strip: 3000 x 500' NE/SW. Pole line SW. (Wichita chart)(5-12)
NAVASOTA (Site 10, Galveston-Waco)-Intersection of N/S and NE/SW rnwys to extreme N end of N/S rnwy unsafe for lgt acft - rough. (8-2)
ORANGE ARPT-NE/SW, NW/SE strips under const. Use only E/W strip. Fld flooded after rains. (7-10)
PALESTINE ARPT-Sod areas usable in dry weather. Circle fld for lgts. (4-8)
PAMPA ARPT-Erecting 20' bldg 500' S of E/W strip and 200' W of N/S strip, mrkd. (11-9)
PAMPA AAF-Temp inactive. No facs. (See Special Notice re use).
PERRIN FLD (SHERMAN)-Rnwys 8-26, 3-21 closed (parked acft) (6-5)
★POTE AAF-RADIO: Army ILS (SCS-51) discont. (8-21) FLD: Rnwys 18-36, 7-25 closed. Ltd svcg, mntnc. (6-18)
RANDOLPH FLD (SAN ANTONIO)-Trans acft use E side fld. (5-16)
RICH FLD (WACO)-Use strips only (muddy). Small ditch on S end N/S strip (repairs on range lgts). (3-22)
RIO GRANDE VALLEY INTERNATIONAL ARPT (BROWNSVILLE)-RADIO: Due to temp twr installation at CAA twr maximum intermediate freq transmitter 278 kcs coverage approx 5 mi radius. (7-16) FLD: Rnwy 4-22 closed. Use rnwys, taxi strips only. Bldg 300' E, 700' S of N end Rnwy 17-35, lgtd. Civil. acft may be cleared thru this arpt for foreign flights. Army acft use Kelly Fld. Portable control twr 40' SW base of old twr. Obst lgts atop 90' antenna poles 3 mi S inop. (8-2)
ROBERT MUELLER ARPT (AUSTIN)-RADIO: Soon, CAA twr freq will be changed to 272 kcs, 118.7 mcs. (8-9) FLD: Acft landing or taking off on Rnwy 34 follow clockwise traffic pattern. Acft landing or taking off on other rnwys use left hand traffic pattern. Rnwy 12L-30R closed. Blinding 30 million candlepower ceilometer 900' N of Admin Bldg. (8-15)

**ROCKPORT OLF-No longer assigned to navy. Will hereafter be carried as Rockport Arpt. (San Antonio chart)(7-11)
ROCKPORT ARPT-Closed xcp in emerg. Fire and crash equip. removed. (8-1)
SAN ANTONIO-Cloud flying on Randolph Fld Radio Range at alts assigned by San Antonio A.T.C. Acft inbound to Randolph Fld or operating in that vcnty under IFR ctc Randolph, Alamo or San Antonio Range Stn and adhere to instructions issued by San Antonio A.T.C. Acft outbound from Randolph Fld adhere to instructions issued through Randolph Twr.
SAN ANTONIO ARPT-ALAMO FLD (SAN ANTONIO)-RADIO: CAA twr freq will be changed soon to 278 kcs, 118.5 mcs. (8-9) FLD: Ltd svcg. Closed ngts to all civil. acft xcp scheduled airlines. Equip S end N/S and SW end NE/SW rnwys. Ditch this area. (7-3)
SAN MARCOS AAF-Ctn - helicopter and liaison pilot training. (6-17)
SHEPPARD/KELL MUN. ARPT (WICHITA FALLS)-N/S rnwy W of fld rstd to acft 200 hp or less. Use rnwys only. (6-7)
SOUTH PLAINS AAF (LUBBOCK)-Parts of rnwy not visible from control twr due to parked acft. Oper office open 0800 to 2200. Stn sto acft rc'd only between 0800 and 1630 Mon thru Fri. Soft spot approx 1500' S of N/S rnwy. Ltd transportation, no housing and messing facs. (7-26)
TAYLOR ARPT (ALBANY)-CLOSED (rnwy const). (4-4)
★TYLER-RADIO: Aug 23 voice fac added. Class: BMRLZ-DT. Stn now gds: 3105, 4495, 6210, 3117.5 kcs.
VICTORY FLD (VERNON)-Use rnwys only (parked acft). Avail. days only. (6-3)
**WACO MUN. ARPT-Bcn, range, ctc, obst lgts. 80, 91 oct, sto, minor engine and acft repairs. (Austin chart)(8-19)
WHITE FLD (BRADY)-CLOSED. (8-7)
**WORMSER FLD (LAREDO)-Only 80, 91 oct. (8-16)

UTAH

BRYCE CANYON-RADIO: 111.1 mc transmitter and 131.7 mc rcvr temp inop.(7-20)
DELTA ARPT-Use rnwys only. (6-22)
DUGWAY FLD (TOOELE)-CLOSED TO TRANS M'L ACFT XCP ON OFF. BUS. THIS STN OR IN EMERG.
ENTERPRISE (Site 39, Los Angeles-Salt Lake)-Soft, rough - use rnwys only. W 600' N/S rnwy closed. (8-29)
HANKSVILLE-RADIO: Stn unmanned from 2200 to 0600.
HANKSVILLE (Site 54, Los Angeles-Denver)-N/S strip unlgtd. (6-17)
HILL FLD (OGDEN)-RADIO: CW facs of AACS, gnd to air stn temp suspended. Army DF (HF) stn oper temp suspended. (3-18)
MILFORD ARPT-SITE 45, LOS ANGELES-SALT LAKE-Installation of obst lgts on bldgs SE corner fld S of and adj to bcn twr incomplete. (5-22)
PROVO ARPT-Soft shoulders. Fld lgts avail. on req. (7-18)
ROBERT H. HINCKLEY FLD (OGDEN)-RADIO: 4495 kc. rcvr temp inop. (8-6)
ST. GEORGE (Site 36, Los Angeles-Denver)-Equip. along edges of strips. (6-13)
SALT LAKE CITY-RADIO: Auto. range monitor. sys on N course temp inop. Temp remote monitor. sys which provides cont aural and visual monitor. at control stn recomm on N course. Warning signal not avail. (5-3)
SALT LAKE ARPT NO. 2 (SALT LAKE CITY)-Use rnwys, taxiways only, shoulders soft. (6-5)
SALT LAKE CITY ARPT NO. 1 (SALT LAKE CITY)-RADIO: About Nov 1, CAA ILS will be comm, serving N/S rnwy with approach from S. Lclzr transmitter lctd 1000' N of N end N/S rnwy on centerline, freq 110.3 mcs. Glide path transmitter lctd 750' N of S end N/S rnwy, 300' W of centerline, freq. 335 mcs. Two mrkr bcns: Middle, 3730' S of S end N/S rnwy, keyed with alternate dots and dashes; outer, 4.69 mi S of S end N/S rnwy, keyed two dashes per sec. Sys will oper cont. (8-14) FLD: Right hand traffic during S, SE, E winds - right turns in and out of S, SE, E rnwys. Left traffic at all other times. Rstd to acft with at least radio rcvr. Prevailing wind rnwy lgts operating ngts. Use rnwys - shoulders soft. Equip. ahead of

Army lgts operating ngts. Use rnwys - shoulders soft. Equip. ahead of Rnwys 31 and 34. Unlgtd poles 30 to 60' tall 300' S of bndry in line with N/S rnwy. (7-26)
WENDOVER FLD-RADIO: 126.18 mc transmitter and rcvr of Army twr temp inop. (7-12) FLD: CLOSED TO ALL TRANS ACFT XCP ON OFF. BUS. OR IN EMERG. Opers inop 1700 to 0730. No svcg 2000 to 0730. Fld lgts avail. only on advance req. Obst lgts on mtn N of fld inop. (3-1)

VERMONT

MONTPELIER ARPT (BERLIN)-80, 91 oct. (8-6) Use rnwys only. (8-7)
**BURLINGTON ARPT-220' twr Radio Stn WJOY erected 2 mi W (277°) true, obst lgtd. (Burlington chart)(8-15) Use rnwys only. (8-15)
**ARTHUR ARPT (RUTLAND)-Name changed to Rutland Arpt. (Albany chart)(8-1)

VIRGINIA

ALBERTA ARPT-ENE/WSW strip rough. Ends, sides ENE/WSW, NNW/SSE stripe mrkd by 12' yellow mrkrs. (5-24)
ALTAVISTA ARPT-200' NE end of fld unusable in wet weather.. (5-23)
BLACKSTONE AAF-Temp inactive. No facs. (See Special Notice re use).
CENTRAL ARPT (RICHMOND)-During wet weather use strips only. (5-20)
CHINCOTEAGUE NAAS-Closed 1700 to 0800 xcp in emerg or on req with 2 hr notice Bcn inop ngts with CFR weather conditions during lol ngt flying. Bcn turned on at termination of ngt flying, in emerg or on req. Unlgtd 118' twr 5-5/10 mi S on Wallops Island. (8-16)
**CLOVER ARPT-3-1/2 mi SSW; rd S; riv E. Lat 36-48-15, long. 78-46-57. Elev 350'. 1 strip 2020 x 250' NW/SE. Trees E, W, SE, NW. House E, SE. (Winston-Salem chart)(5-22)
COLONIAL BEACH ARPT-CLOSED (wet - high grass)(8-9)
**COVINGTON-CLIFTON FORGE ARPT (COVINGTON)-80 oct, sto, minor engine and acft repairs. (5-24)
CROSSROADS ARPT (ALEXANDRIA)-CLOSED (const). (4-1)
DAHLGREN NAF PROVING GNDS-CLOSED TO ALL TRANS MIL ACFT XCP THOSE ON OFF. BUS. OR IN EMERG. Off. flights must be cleared thru one of the following: Naval Air Stns, Anacostia, D.C.; Patuxent River, Md.; Norfolk, Va.; Quonset Point, R. I.; Cape May, N.J.; Inyokern, Calif.; NAF Torpedo Stn., Newport, R. I.; Naval Acft Factory, Philadelphia, Pa.; Cherry Point MCAS, N. C.; Quantico MCAS, Va.; AAF Proving Gnd, Eglin Fld, Valpariso, Fla.; Langley Fld, Langley, Va.; Wright Fld., Dayton, Ohio; Aberdeen Proving Gnd, Aberdeen, Md.; Lakehurst NAS, N.J. 1 rnwy closed. Equip on fld. Only 1 rnwy avail ngt opers. Ctn advised. (8-28)
EMPORIA ARPT-Fixed tee, wind sock being lctd on hangar S side fld. Hangar under const. (5-4)
FORTRESS NAAS-Use in emerg only (caretaker status - no facs)
**GAMAX ARPT-3 strips: 2700' E/W, 2250' NNW/SSE, NE/SW, all 250' wide. (5-23) Class: 27 S4.
GORDONSVILLE-RADIO: Range flight-checked Aug 27, SE course 4-1/2° SW, bear. 320°.
HARCUM ARPT-Use NE/SW strip only between yellow cone mrkrs. (6-14)
HOPEWELL ARPT-SE portion under const. Equip. on fld. (8-7)
HYBLA VALLEY ARPT (ALEXANDRIA)-Surplus Acft Sales Center - parked acft.
LANGLEY FLD-RADIO: S course of Army range unreliable - 11° W, bear.: 3°. AACS gnd to air sta temp inop. Army range voice transmission temp inop. (6-25) FLD: Rnwy 12-30 closed ngts. Rnwys 12-30, 2-20 closed to 4-engine acft. Only 100 oct avail. (6-21)
**LANGLEY FLD SEAPLANE BASE (LANGLEY)- 3 mi N of Hampton; on Back River adj to fld. Lat 37-05, long. 76-22. Elev 5'. Landing area: 1800 x 10,500. Docks, fuels, etc. Closed during ice period. (Norfolk chart)(5-15)

pattern for landings from SW on NE/SW rnwy. (8-1)
MILFORD (Site 49B, Atlanta-New York)-NE/SW strip unsafe. (5-9)
MONOGRAM NAAS (DRIVERS)-Use in emerg only (caretaker status - no facs)
NORFOLK ARPT-Closed to all acft xcp scheduled airlines. (6-25)
NORFOLK NAS-EAST FLD-Shoulders adj perimeter taxiway soft. Pilots on southbound coastal flights proceeding in accordance with IFR to NAS Norfolk, shall establish radio ctc with twr at NAAS Chincoteague, Va., for further clearance and instructions from Navy Norfolk. Pilots on northbound coastal flights proceeding in accordance with IFR to NAS Norfolk shall establish radio ctc with Navy Weeksville Radio, NAS (LTA) Weeksville, Elizabeth City, N. C., for further clearance and instructions from Navy Norfolk. Equip. on fld. (7-22)
OCEANA NAAS-Rnwys, taxi strips under const. Facs avail. 0800 to 1630 Mon. thru Fri. Acft clearance not accepted 1630 to 0800 Mon. thru Fri. Essential mil flights accepted anytime on prior notification. Equip. on fld.
PETERSBURG ARPT-CLOSED (const)(8-2)
PRESTON GLENN ARPT (LYNCHBURG)-Use rnwys only. Ctc Lynchburg Radio for landing instructions. Pwr line extension of 2 poles approx 3200' NW of W end E/W rnwy and 3 poles approx 3600 to 3800' W of W end E/W rnwy, unlgtd, [illegible] Dodecahedron free swinging. (5-7)
RICHMOND-RADIO: Range flight-checked Aug 21, NW course displaced 2°, NE, bear. 126°.
RICHMOND-Elko Aux. Fld, 5 mi E of Richmond AAB, is similar in design and layout to the Richmond AAB, BUT RNWYS ARE UNSUITABLE FOR LANDING BY ACFT OF ANY TYPE. Care should be taken not to confuse this fld with the Richmond AAB.
RICHMOND AAB-Ltd army svcg facs. No 91 oct. Avoid using 1000' rnwy extensions. Rnwy, taxiway shoulders soft. All acft landing this fld without establishing radio communication with control twr watch carefully for lgt gun signals; control twr lctd in center of triangle of rnwys. Only 73, 100 oct avail. (8-7)
UNIVERSITY OF VIRGINIA ARPT (CHARLOTTESVILLE)-Ctn in wet weather. (5-7)
**VIRGINIA BEACH ARPT-New fld. 4½ mi W; RR, hwy N. Elev 15'. 2 stripe: 4200' N/S; 2200' E/W, both 300' wide. 80, 91 oct, sto, minor engine and acft repairs. Pole line N. (Norfolk chart)(8-2) Info. unverified by CAA.
WINCHESTER ARPT-E end E/W strip rough. Ctc Front Royal Radio or circle fld before landing. (6-7)
WOODRUM FLD (ROANOKE)-Equip. on fld and adj all rnwys. (5-12)

WASHINGTON

SPECIAL NOTICE-Benton County Danger Area approx 12 mi NW of Pasco is particularly hazardous and all flights must avoid this area. (See Special Flight Planning Chart #2, Spokane Sectional, and Washington 5 Danger Area Charts).
ARLINGTON NAAS-Use in emerg only (caretaker status - no facs)
BOEING-RENTON ARPT (RENTON)-CLOSED TO ALL XCP MIL ACFT ON OFF. BUS. AT BOEING PLANT.
**BOMERS FLD (ELLENSBURG)-80 oct, sto, maj engine, and acft repairs. (6-18)

WASHINGTON

**BREMERTON NAS SEAPLANE BASE-1/2 mi S; in Puget Sound; on Sinclair Inlet. Lat 47-34. long. 122-39. Elev sea level. Landing areas 5280' N/S; unlimited NE/SW. Buoys; ramp; haul-out gear; fuel, sto.,minor engine, acft repairs. (Seattle chart)(5-15)

**CLALLAM COUNTY ARPT (PORT ANGELES)-80 oct, sto. (6-3)

COLVILLE AIRPORT-NW/SE rnwy closed. (1-17)

**COULEE CITY ARPT-Correct elev 1700'. 80 oct. (Spokane chart)(6-18)

COUPEVILLE OLF-CLOSED TO ALL ACFT EXCEPT IN EMERG. Only crash facs avail. Avail. on 24 hrs advance notice. (11-9)

**EPHRATA ARPT-No lgts. 80 oct, sto,major engine and acft repairs.(Spokane chart) (6-18)

EVERETT-RADIO: Soon, Overseas-Foreign Aeronautical Communications Sta will be discont and re-estab. as Interstate Airway Communications Stn at Paine Fld. Everett range ident. and bdcast will be controlled from Paine Fld. Weather reporting service, teletype designator on circuits A and B and cont receiving watch on 3105,4495,6210,3117.5 kcs will be inaugurated [illegible] (8-2)

FELTS FLD (SPOKANE)-Sept 1 to 7, CAA twr will oper 0500-2300, Sept 7 will begin 24 hr oper. Fancher beacon near Felts Fld inop. Take-offs and landings on sod area should be completed before reaching taxiway near center of fld. (8-28)

**FOREST GROVE ARPT (SPANAWAY)-New fld. 1-4/5 mi E;RR E. Lat 47-06-15, long. 122-24-00. Elev 340'. 1 strip: 2200 x 125' WNW/ESE. 80 oct, sto.,major engine and acft repairs. (Seattle chart) (4-4)

GEIGER FIELD (SPOKANE)-Temp inactive. No facs. (See Special Notice re use).

GOLDENDALE ARPT-2 strips: 2000' E/W, 1200' NW/SE. (5-16)

**"J 2" ARPT (ALMIRA)-New fld. 1 mi NNW;RR SW,hwy S. Lat 47-43-15, long. 119-30-45. Elev 1950'. 1 strip: 2100 x 180-200' N/S. (Spokane chart)(6-19)

KING COUNTY ARPT-BOEING FLD (SEATTLE)-Use rnwys, taxi strips only. Equip only rnwy 13-31. 100 oct avail. only. (8-28)

**KITSAP COUNTY ARPT (BREMERTON)-2 rnwys: 5000' N/S, NE/SW, both 150' wide. (6-3) Bcn, ctc, range, obst lgts. (Seattle chart) (8-16)

LAKE SAMMAMISH SEAPLANE ANCHORAGE (ISSAQUAH)-CLOSED. (4-26)

★LOCHORD FIELD (TACOMA)-RADIO: Glide path comm on Army ILS (CAA type), transmitter located 1340' N of S end N/S rnwy, 520' E of rnwy centerline, freq. 333.8 mcs. Middle marker keyed six dots per sec, outer marker keyed two dashes per sec. (8-21) Army ILS (CAA type) temp inop. (6-12) FLD: Use rnwys taxiways only. Equip. on fld. Glide path bldg 13' high with 25' antenna being erected about 1340' N of S end N/S rnwy and 250' E of Rnwy center line; lgtd ngts. (12-13)

MERCER AIRFIELD (BELLEVUE)-Closed to itinerant acft. Equip on fld. (8-19)

**MOON ISLAND ARPT (ABERDEEN)-80,91 oct, major engine and acft repairs.(6-4)

MOSES LAKE AAF-Temp inactive. No facs. (See Special Notice re use).

MT. CATHERINE (Beacon Site 4, Seattle-Helena)-Beacon inop. (6-12)

MT. VERNON OLF-Closed to all acft except in emerg and for training which requires 24 hrs advance notice thru NAS Whidbey Island. (4-23)

ORCAS ISLAND AIRPORT (EAST SOUND)-Fld flooded. (12-25)

PAINE FIELD (EVERETT)-Closed for landings, take-offs sunset to sunrise except by prior arrangement with fld manager. Lgts on req. (7-28)

PASCO-See Special Notice (first item under state heading).

PASCO NAS-Use in emerg only (caretaker status - no facs).

PULLMAN-MOSCOW REGIONAL AIRPORT (PULLMAN)-Closed to acft over 10,000 lbs. (1-26)

SARATOGA PASSAGE-Bombing is being conducted within an area bounded on the N by lat 48-13; S by lat 48-06; E by W. shoreline of Camano Island, W by E shoreline of Whidbey Island. (8-21)

WASHINGTON-Continued

SEATTLE-All acft advised not to fly below or near blimps in Puget Sound Area.

SEATTLE NAS-Approach sta from Kirtland at 1000' alt. Seaplanes landing at NAS, Seattle, approach over Lake Washington from N or S under 200'. Rnwy 14-32 and wind direction indicator lgtd from sunset to sunrise. Rnwy 14R used as taxiway for large multi-engine acft. (6-26)

SEATTLE SKY RANCH (ISSAQUAH)-New strip being const. Acft use sodded portion adj to strip under const. (6-26)

SEATTLE-TACOMA ARPT (SEATTLE)-RADIO: ILS emits localizer signals on 110.3 mcs, boundary and outer marker signals on 75 mcs cont. These signals may at times be spurious and are not to be relied upon for any purpose. (3-14)FLD: Equip on fld days. Const approx 20' N of N end NW/SE rnwy. (8-22)

**SNOHOMISH ARPT-1 strip: 1900 x 150' WNW/ESE. (6-7)

SPOKANE AAF-Use rnwys only. (4-25)

**VANCOUVER MUN. ARPT-New fld. 6-7/10 mi ENE;hwy adj N. Lat 45-41-00, long. 122-32-45. Elev 240'. 1 strip: 2640 x 150' E/T. 80 oct. (Portland chart) (5-3)

WALLA WALLA AAF-Army opers open 0700 to 1800. No svcg 1700 to 0800. All Blinker lgts on mtns E of fld inop. Equip on fld 0800-1700 Mon thru Fri. (8-30)

WHIDBEY ISLAND NAS-AULT FIELD (WHIDBEY ISLAND)-Warm-up apron being const W end Rnwy 12-30. Equip. W end Rnwy 8-26. (7-3)

WILBUR AIRPORT-Center 200' strip avail. Equip. on fld. (8-8)

YAKIMA-RADIO: 116.1 mc transmitter and receiver inop. (8-22)

YAKIMA COUNTY ARPT-Weeds in graded areas - caution. (8-29)

WEST INDIES

TRINIDAD-Carlsen Field-Edinburgh (North)-Rnwy closed to all Navy traffic except in emerg. Use Xeres (South) rnwy.

WEST VIRGINIA

★ELKINS-RADIO: VHF voice fac comm at communication stn Aug 23. Transmits on and gds 116.1 mcs cont. Stn class: SBMRAZ-VDT. Range flight-checked Aug 28, courses correctly aligned.

ELKINS AIRPORT-Contact Elkins Radio or circle fld before landing. (7-16)

**HINTON ARPT-2 strips: 2600' NNE/SSW, 2000' NNW/SSE, both 300' wide. 80 oct. minor engine and acft repairs. (6-12)

**LOGAN ARPT-7-1/5 mi NNW;RR,riv E. Lat 37-57-00, long. 82-01-45. Elev 630'. 1 rnwy: 1500 x 100' N/S. Wooded hill S,N. 80 oct.(Winston-Salem chart) (6-12)

LOUIS BENNETT AIRPORT (WESTON)-Soft spots after continuous heavy rains.(6-4)

**MOOREFIELD ARPT-Only 80 oct. (6-11)

PAYNESVILLE-RADIO: Priv H fac operated by PCA 0600 to 2300, use with caution.

SCOTT FIELD (BECKLEY)-Use right hand traffic pattern. (5-7)

**WOOD COUNTY ARPT (PARKERSBURG)-7 mi NE;hwy E, SE. Lat 39-20-30,long.81-26-30. Elev 835'. 3 rnwys: 4450' NNE/SSW, 4000' NNW/SSE,E/W, all 150' wide. 80,91 100 oct, sto.,major engine, acft repairs. (8-19)

WISCONSIN

**ANTIGO ARPT-80,91 oct. (6-13)

**BADGER ARPT (MONROE)-2 strips: 1250 x 250' N/S; 1950 x 400' E/W. (4-4)

**BELL-AERO SERVICE ARPT (BARABOO)-80 oct, sto.,minor engine and acft repairs. (6-4)

**BILL'S ARPT (BRODHEAD)-New fld. 1-4/5 mi S;riv S & W.Lat 42-35-30,long. 89-22-30. Elev 780'. 3 strips: 2250' NE/SW, 2150' NW/SE, both 100' wide. 1230 x 300' E/W. 80 oct. (Milwaukee chart) (4-4)

**BOULDER JUNCTION ARPT-New fld. 1-1/2 mi NW. 2 strips: 3800' NE/SW; 2200' NNW/SSE, both 200' wide. 80,91 oct.(7-25)Info. unverified by CAA.

**CLINTONVILLE ARPT-80,91 oct. (5-27) Use strips only. (6-7)

CURTISS-WRIGHT AIRPORT (MILWAUKEE)-Closed ngts. (6-27)

**EAGLE RIVER ARPT-2 strips: 2650' N/S,3200' E/W,both 300' wide. (6-20)

**EAU CLAIRE MUN. ARPT-No svcg. (9-5) Const. (5-17)

WISCONSIN-Continued

GENERAL MITCHELL FIELD (MILWAUKEE)-Army temp inactive - civil facs. Equip. on fld days. Right turn procedure rstd to lcly based acft. All traffic land acrdg to tetrahedron unless otherwise instrd by twr. All pilots must register in Admin Bldg upon arvl and dptr. Ditch adj N half E/W rnwy. Ditch digging vcnty parking areas N of E/W rnwy and intsxn NE/SW, NW/SE rnwys. Use E/W rnwy taxiing only. (8-26)

GINDOW AIRPORT (OMRO)-Use strips only. (6-7)

**JACKSON COUNTY ARPT (BLACK RIVER FALLS)-2 strips: 2500' NW/SE, 2300' E/W, both 400' wide. (5-15)

**JEFFERSON ARPT-New fld. 1-7/10 mi WSW; RR E, hwy N. Lat 43-00-00, long. 88-50-30. Elev 800'. 1 strip: 1320 x 350' N/S. Pole line N. (Milwaukee chart). (1-7)

**MENOSHA ARPT-2 strips: 2800' NW/SE, 2850' NE/SW, both 60' wide. 80,91 oct, sto, major engine and acft repairs. (5-8). Only N bank floodlgts avail. on req. (6-10)

**LA CROSSE ARPT-80,91 oct. (8-14). Use rnwys only. Harvesting opers adj to rnwys. (8-3)

**LA CROSSE (Site 23A, Chicago-Twin Cities)-36" clear and green rot. beacon replaced by 24" clear rot. beacon with green course lgts flash. char "3s (. . . -). (Dubuque chart). (8-23) Two 285' twrs Radio Stn WKBH, lctd 6-1/2 mi SE (150°) true, obst lgtd. 191' twr State Highway Police Radio, lctd 10 mi SE (143°) true, obst lgtd. (Dubuque chart). (8-13)

**LEATHERBY ARPT (GREEN BAY)-Name changed to East Side Arpt. (Green Bay chart)

MADISON-RADIO: Range flight-checked Aug 20, courses correctly aligned.

MANUEL ARPT (PORTAGE)-80 oct, sto, major engine and acft repairs. (6-4)

**MERRILL ARPT-1-1/5 mi NNW. Lat 45-11-45, long. 89-42-00. Elev 1285'. 4 strips: 2200' NW/SE, NE/SW, both 60' wide. 1980' N/S, 1320' N/S, both 500' wide. Bldg SE, trees NW, pole line NE. (Green Bay chart). (6-10)

**MOREY ARPT (MADISON)-4 strips: 2620' N/S; 3360' NE/SW, 2560' E/W, 2740' NNE/WNW, all 300' wide. (2-5) Equip. on fld - portions under const, marked. (4-28)

**NEPCO TRI-CITY ARPT (WISCONSIN RAPIDS)-4 strips: 3550' NW/SE, 3100' NE/SW, 2600' N/S, 2600' E/W, all 200' wide. 80 oct, sto. (6-5)

**OUTAGAMIE COUNTY ARPT (APPLETON)-4 strips: 1600' E/W., 2900' NE/SW, 2460' N/S, 2600' NW/SE, all 500' wide. (5-23)

**PHILLIPS ARPT-80,90 oct., sto. (6-6)

PLATTE AIRPORT (PLATTEVILLE)-CLOSED (const). (6-12)

PRICE LAKE AIRPORT (PHILLIPS)-Arpt info not yet verified by CAA. (6-4)

RICE LAKE AIRPORT-Uncompleted portion NE/SW strip rough. (5-22)

**RICHLAND CENTER ARPT-New fld. 6 mi SSE; hwy W. 2 strips: 2300' E/W, NNW/SSE 80 oct. Trees E, S. (Dubuque chart) (8-10). Info unverified by CAA. Equip. on fld. (8-10)

**ROYAL ARPT (MADISON)-Name changed to Four Lakes Arpt. (Milwaukee chart). (8-8). These data rc'd too late for inclusion on Flight Planning Charts.

SHAWANO AIRPORT (SHAWANO)-Use rnwys only. N/W strip under const. (8-5)

**SHAWANO CAP ARPT (SHAWANO)-Name changed to Shawano Arpt. 80,91 oct, sto. (Green Bay chart). (8-5)

SKY HAVEN AIRPORT (MILWAUKEE)-S 1/3 portion N/S strip unusable (washouts). (6-5)

STEVENS POINT AIRPORT-Use rnwys only. (8-9)

**TAYLOR COUNTY ARPT (MEDFORD)-2 mi SE. Lat 45-07-15, long. 90-19-00. Elev 400'. 4 strips: 1900' E/W, 1600' N/S, 1500' NW/SE, 1700' NE/SW, all 150' wide. Pole line N. Bldg W, NE. 80 oct, sto. (Twin Cities chart). (6-6)

TOMAH AIRPORT-N/S strip under const. (7-9)

**TOMAHAWK ARPT-1/2 mi WNW. Lat 45-28-30, long. 89-44-00. Elev 1450'. Allway

WISCONSIN-Continued

**TRUAX FLD (MADISON)-Fld lgts and svcg not avail 2430 to 0730. (8-13). These data rc'd too late for inclusion on Flgt Planning Charts. 73,91,100 oct, sto. (6-14) Equip. on fld, unmarked days - lgtd ngts. (8-14)

**WASHINGTON ISLAND ARPT-3/5 mi NNE of Detroit Harbor. Lat 45-22-00, long. 85-55-30. Elev 600'. 4 strips: 2400' NE/SW; 2000' NW/SE, 1980' N/S, 1320' E/W. (Green Bay chart). (6-19)

WATERTOWN MUN. AIRPORT-N/S strip soft - use W part of sod when wet. (4-10)

**WAUPUN ARPT-New fld. 3-1/2 mi W; RR E, hwy SE. Lat 43-37-30, long. 88-47-45. Elev 912'. 1 strip: 1400 x 300' N/S. 80 oct. (Milwaukee chart). (5-6)

**WHITEWATER ARPT-2 mi N; RR S. Lat 42-51-45, long. 88-43-30. Elev 810'. 3 strips: 2000' E/W, ENE/WSW, WNW/ESE, all 100' wide. Pole line E, ENE, ESE, bldgs E. 80 oct. (1-17)

**WINNEBAGO COUNTY ARPT (OSHKOSH)-4 rnwys: 5000 x 150' N/S; 3700 x 100' NE/SW, E/W, 3450 x 100' NW/SE. Rnwy info unverified by CAA. Use rnwys only. (8-20)

WYOMING

**BIG PINEY ARPT-2 mi N; lat 42-34-00, long. 110-06-30. Elev 6900'. 2 strips: 3100' ESE/WNW; 3700' NW/SE, both 200' wide. (Pocatello chart). (5-18)

CASPER AAF-Temp inactive. No facs. (See Special Notice re use).

CHEYENNE ARPT-Equip. on fld intmtly. (7-20)

**COKEVILLE ARPT-2 strips: 4500 x 200' N/S; 1500 x 150' E/W. (5-23)

**EVANSTON ARPT-2 strips: 3700' NNW/SSE, 3900' E/W, both 75' wide. 73 oct. (5-23)

**GENERAL BREES FLD (LARAMIE)-Only 80,91 oct. (5-16). Equip. on rnwys days. (6-9)

JACKSON AIRPORT-Use only S 2/3 of NNE/SSW strip.

**LUSK MUN. ARPT-New fld. 2-9/10 mi E; RR S. Lat 42-45-30, long. 104-23-15. Elev 5000'. 3 strips: 1600' N/S, 4200' E/W; 4700' NW/SE, all 100' wide. Poles SE. 73 oct. (Casper chart). (4-23)

**MEDICINE BOW ARPT-SITE 31-SALT LAKE-OMAHA-73 oct. (5-16)

**PINEDALE ARPT-2 strips: 3900' WNW/ESE, 3400' NW/SE, both 200' wide. 73 oct, sto. (5-18)

**RAWLINS ARPT-3 strips: 5200' NE/SW, 4200' N/S, both 200' wide, 4200 x 100' E/W. 80,91 oct, sto, minor engine and acft repairs. (5-16)

SHERIDAN COUNTY AIRPORT (SHERIDAN)-N/S rnwy unsafe heavy acft. Taxi strips parallel all rnwys except N/S rnwy and terminate at ramp. Stay on pavement. Equip. on fld. (5-8)

**WARDWELL FLD (CASPER)-36" rot. bcn showing clear and green, bndry, range, etc, obst lgts. (Casper chart). (8-6). Use rnwys, taxi strips only, bal fld rough. (7-15)

New editions of the charts listed below will be published in about one month, making former prints obsolete for use in aviation. Orders for these particular charts should be kept to a minimum for immediate requirements. As soon as the charts are available for distribution a second notice will appear in this publication.

Albuquerque, Denver, Los Angeles, Phoenix, San Diego, Trinidad; WAC 363; FC 186, FC 188, FC 213.

A new edition (or chart) of the charts listed below which make former prints obsolete is now available for use. Former prints should be destroyed or stamped "OBSOLETE FOR USE IN AVIATION".

NEW EDITIONS

Austin	8-11-46	AL 85	7-23-46
Beaumont	7-25-46	AL 98	7-9-46
Corpus Christi	8-6-46	AL 110	7-23-46
New Orleans	8-6-46	AL 114	7-23-46
WAC 308	6-12-46	AL 138	7-23-46
WAC 309	7-13-46	AL 144	7-23-46
WAC 468	7-30-46	AL 173	7-23-46
WAC 469	7-25-46	AL 192	7-23-46
WAC 470	7-17-46	AL 195	7-23-46
WAC 471	7-15-46	AL 224	7-23-46
WAC 522	7-29-46	AL 257	7-23-46
FC 223	5-24-46	AL 260	7-23-46
22 DF	7-22-46	AL 285	7-23-46
New York Local	8-6-46	AL 302	7-23-46
AL 22	7-23-46	AL 344	7-23-46
AL 47	7-23-46	AL 359	7-23-46
AL 54	7-16-46	AL 374	7-23-46
AL 69	7-23-46	AL 378	7-23-46
AL 74	7-25-46	AL 383	7-23-46
AL 75	7-23-46	AL 510	7-22-46
AL 80	7-23-46		

NEW CHARTS

AL 11	Albuquerque, New Mexico, Albuquerque Army Air Field
AL 105	Dallas, Texas, Hensley Field
AL 183	Greenwood, South Carolina, Coronaca Army Air Field
AL 275	Moultrie, Georgia, Spence Field
AL 320	Philadelphia, Penna., Philadelphia Southwest Airport.
AL 502	San Marcos, Texas., San Marcos Army Air Field
AL 583	Wilmington, Ohio, Clinton County Army Air Field
AL 602	Milton, Florida, Whiting NAS
AL 618	Flint, Mich., Bishop Airport
AL 609	New Orleans, La., Moisant Airport

When ordering charts from the United States Coast and Geodetic Survey, correct remittances should accompany all orders. Sectional Charts should be ordered by name; World Air Charts by number with the prefix (WAC); Approach and Landing Charts by the number with the prefix (AL); Route Charts by number with the prefix (FC). The above charts are priced at 25¢ each with the exeeption of Approach and Landing Charts which are priced at 5 cents each.

U. S. Coast and Geodetic Survey

Dates of Latest Prints

Dates in small type indicate minor changes which are not of sufficient importance to make the previous print obsolete. All charts carrying dates older than those shown in large type on this list are obsolete for use in flight.

SECTIONAL

Aberdeen	Dec. 11, 1945	May 31, 1946	El Paso	July 25, 1946		Norfolk	Apr. 16, 1946	
Albany	July 9, 1946		Fargo	May 29, 1946		Oklahoma City	Mar. 19, 1946	
Albuquerque	Feb. 19, 1946		Glacier Park	April 26, 1945	May 7, 1946	Orlando	Feb. 5, 1946	
Aroostook	June 26, 1946		Grand Canyon	Feb. 19, 1946		Phoenix	Mar. 5, 1946	
Austin	Aug. 11, 1946		Grand Junction	Feb. 19, 1946		Pocatello	May 27, 1946	
Beaumont	July 25, 1946		Green Bay	June 12, 1946		Portland	Apr. 30, 1946	
Bellingham	Apr. 30, 1946		Huntington	Nov. 27, 1945	April 2, 1946	Prescott	Mar. 5, 1946	
Birmingham	April 2, 1946		Jacksonville	Feb. 5, 1946		Rapid City	May 3, 1945	May 17, 1946
Boise	Apr. 30, 1946		Kansas City	Mar. 19, 1946		Reno	May 17, 1945	Feb. 19, 1946
Boston	July 2, 1946		Klamath Falls	Apr. 30, 1946		Roswell	Mar. 5, 1946	
Burlington	June 24, 1946		Kootenai	April 19, 1945	Apr. 16, 1946	Sacramento	Feb. 5, 1946	
Butte	May 15, 1946		La Grande	May 3, 1945	May 9, 1946	Salina	Mar. 5, 1946	
Casper	May 20, 1946		Lake Huron	June 25, 1946		Salt Lake City	Aug. 30, 1945	May 17, 1946
Charlotte	April 2, 1946		Lake Superior	June 13, 1946		San Antonio	July 30, 1946	
Chattanooga	April 2, 1946		Lake of Woods	May 24, 1946		San Diego	Feb. 19, 1946	
Cheyenne	Aug. 30, 1945	May 24, 1946	Lewiston	July 2, 1946		San Francisco	Feb. 19, 1946	
Chicago	June 17, 1946		Lincoln	June 6, 1946		Savannah	April 2, 1946	
Cincinnati	April 2, 1946		Little Rock	Mar. 19, 1946		Seattle	Apr. 30, 1946	
Cleveland	June 24, 1946		Los Angeles	Feb. 19, 1946		Shreveport	Mar. 19, 1946	
Corpus Christi	Aug. 6, 1946		Miami	Feb. 5, 1946		Sioux City	May 31, 1946	
Dallas	Mar. 5, 1946		Miles City	May 13, 1946		Spokane	May 10, 1946	
Del Rio	Jan. 22, 1946	July 23, 1946	Milwaukee	June 16, 1946		Trinidad	Mar. 5, 1946	
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Detroit	July 11, 1946		Mt. Shasta	May 3, 1945	May 3, 1946	Washington, D.C.	Apr. 16, 1946	
Douglas	July 27, 1946		Mt. Whitney	Feb. 19, 1946		Wichita	Mar. 5, 1946	
Dubuque	Oct. 2, 1945	June 18, 1946	Nashville	April 2, 1946		Williston	May 3, 1945	May 9, 1946
Duluth	Jan. 8, 1946	June 6, 1946	New Orleans	Aug. 6, 1946		Winston-Salem	April 2, 1946	
Elko	May 4, 1946		New York	July 2, 1946		Yellowstone Park	Oct. 30, 1945	May 13, 1946

WORLD AERONAUTICAL - UNITED STATES

WAC 215	May 9, 1946	WAC 268	June 12, 1946	WAC 359	Apr. 16, 1946	WAC 409	Apr. 16, 1946
WAC 216	May 17, 1946	WAC 269	May 10, 1946	WAC 360	Apr. 2, 1946	WAC 410	Apr. 16, 1946
WAC 217	June 4, 1946	WAC 304	May 29, 1946	WAC 361	Apr. 2, 1946	WAC 466	Feb. 5, 1946
WAC 218	June 17, 1946	WAC 305	May 13, 1946	WAC 362	Mar. 5, 1946	WAC 467	Feb. 5, 1946
WAC 219	June 13, 1946	WAC 306	May 29, 1946	WAC 363	Mar. 5, 1946	WAC 468	July 30, 1946
WAC 262	June 26, 1946	WAC 307	June 6, 1946	WAC 364	Mar. 5, 1946	WAC 469	July 25, 1946
WAC 263	June 18, 1946	WAC 308	June 12, 1946	WAC 404	Mar. 5, 1946	WAC 470	July 17, 1946
WAC 264	July 10, 1946	WAC 309	July 13, 1946	WAC 405	Mar. 5, 1946	WAC 471	July 15, 1946
WAC 265	June 12, 1946	WAC 310	Jan. 8, 1946	WAC 406	Mar. 19, 1946	WAC 522	July 29, 1946
WAC 266	May 29, 1946	WAC 357	Apr. 30, 1946	WAC 407	Apr. 2, 1946	WAC 525	Feb. 19, 1946
WAC 267	May 24, 1946	WAC 358	Apr. 16, 1946	WAC 408	Apr. 2, 1946		

RADIO DIRECTION FINDING

21-DF	July 8, 1946	23-DF	Mar. 5, 1946	25-DF	Apr. 2, 1946
22-DF	July 22, 1946	24-DF	May 14, 1946	26-DF	May 19, 1946

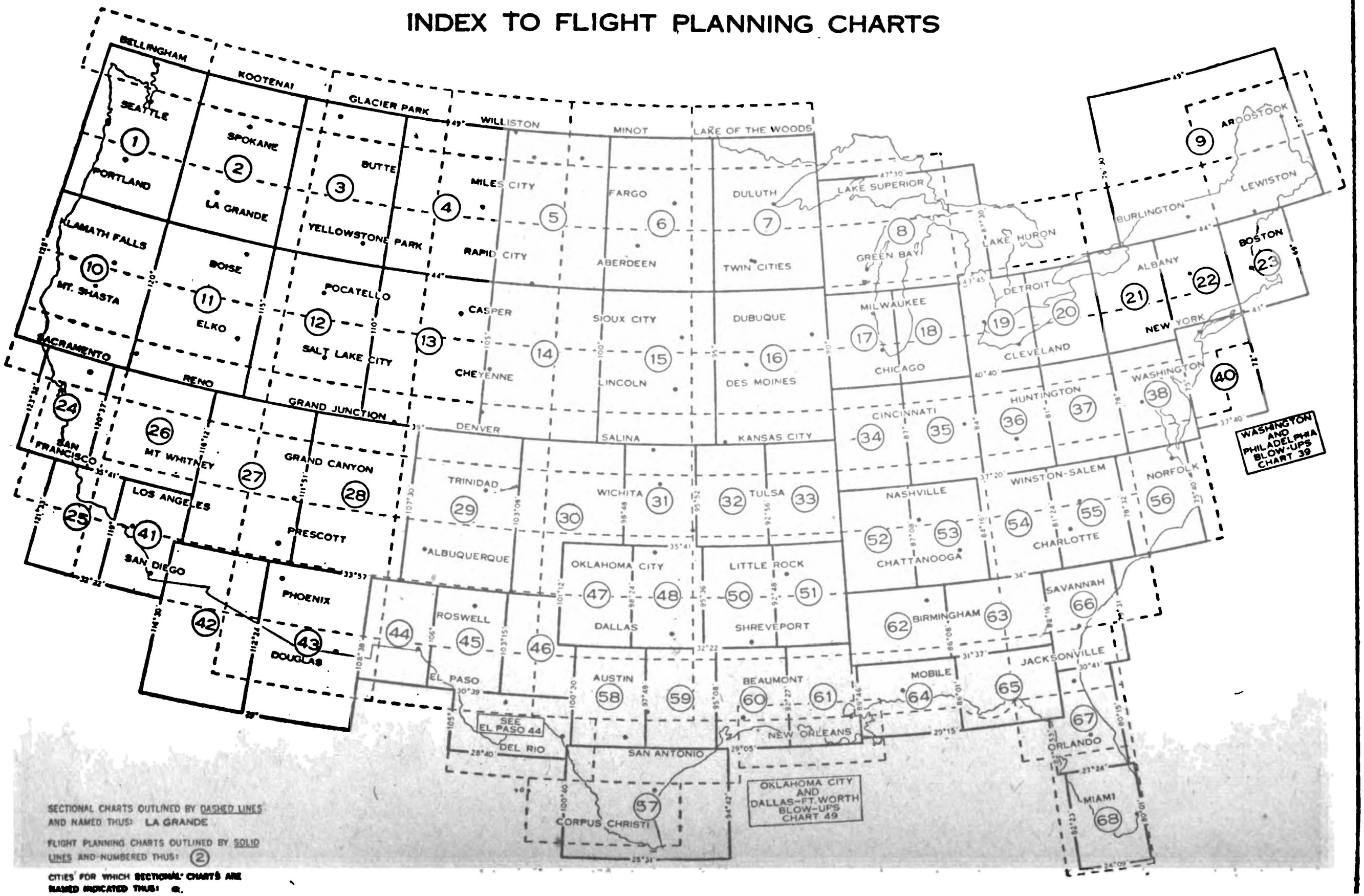
LOCAL

New York and Vicinity	Aug. 6, 1946
San Diego	Feb. 19, 1946
Miami	July 3, 1946
Brownsville	July 8, 1946

WORLD AERONAUTICAL - ALASKA

WAC 62	Feb. 1946	WAC 77	Oct. 1944	WAC 135	Mar. 1946	WAC 139	Mar. 1946	WAC 192	Mar. 1946
WAC 63	May 1946	WAC 117	Dec. 1944	WAC 136	May 1946	WAC 186	Mar. 1946	WAC 193	Mar. 1946
WAC 64	Mar. 1946	WAC 118	May 1945	WAC 137	Mar. 1946	WAC 190	Apr. 1946		
WAC 76	May 1946	WAC 119	Jan. 1946	WAC 138	May 1946	WAC 191	Apr. 1946		

INDEX TO FLIGHT PLANNING CHARTS

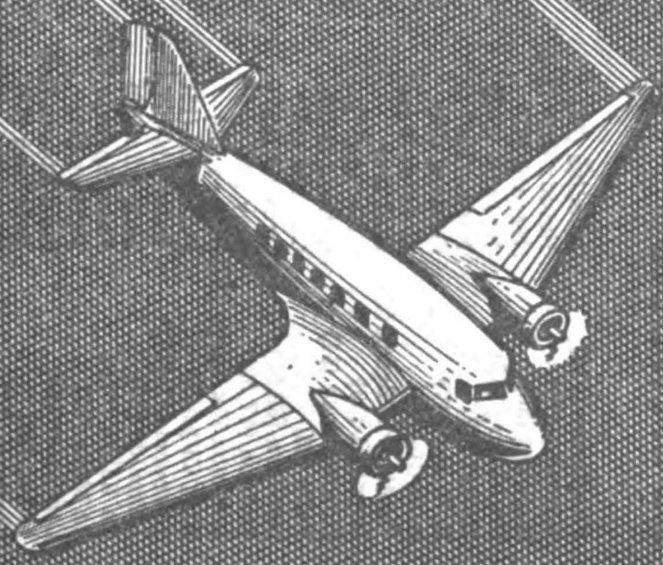


SECTIONAL CHARTS OUTLINED BY DASHED LINES AND NAMED THUS: LA GRANDE

FLIGHT PLANNING CHARTS OUTLINED BY SOLID LINES AND NUMBERED THUS: (2)

CITIES FOR WHICH SECTIONAL CHARTS ARE NAMED INDICATED THUS: ⊙.

AIRMAN'S GUIDE



NOTICES TO AIRMEN
DIRECTORY OF AIRPORTS
AIR NAVIGATION RADIO AIDS

OCT 21 1948
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VOL. 1, NO. 13 · SEPTEMBER 17, 1946
This issue includes all data on record as of 0001 E.S.T. on the date above and cancels all AIRG! NOTAMS transmitted prior to that time.

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
OFFICE OF AVIATION INFORMATION

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Windham (43)
Windsor Locks (43)

DELAWARE

Bridgeville (75)
Dover (75)
Frankford (75)
Georgetown (75)
New Castle (75)
Rehoboth Beach (75)
Seaford (75)*
Wilmington (75)

DIST. OF COL.

Washington (75)

FLORIDA

Altoona (134)*
Apalachicola (130)
Apopka (134)
Arcadia (135)
Avon Park (134)
Banana River (134)
Barberville (134)*
Bartow (134)
Bayard (134)
Belle Glade (135)
Boca Raton (135)
Bostwick (134)
Bradenton (134)
Brooksville (134)
Bryceville (134)
Bushnell (134)
Carrabelle (130)
Cedar Keys (134)*
Chipley (130)
Clarcona (134)
Clearwater (134)
Clewiston (135)
Cocoa (134)
Crestview (127)
Cross City (130)
Daytona Beach (134)
De Funiak Springs (127)
De Land (134)
Dunedin (134)
Dunnellon (134)
Ellenton (134)
Eustis (134)
Fernandina (134)
Fort George Isl. (134)
Fort Lauderdale (135)
Fort Myers (135)
Fort Pierce (134)
Fountain (130)*
Gainesville (130)
Green Cove Spgs (134)
Haines City (134)*
Hawthorne (134)
Holley (127)
Hollywood (135)
Holt (127)
Homestead (135)
Immokalee (135)
Jacksonville (134)
Jasper (136)
Keystone Heights (134)
Key West (135)
Kissimmee (134)
Lake Butler (130)
Lake City (130)
Lakeland (134)
Lake Wales (134)
Lake Worth (135)
Lantana (135)
Leesburg (134)
Live Oak (130)
Malabar (134)
Marathon (135)
Marianna (130)
Mayport (134)
Melbourne (134)
Miami (135)
Miami Bay Shore (131)
Middleburg (134)
Milton (127)
Minneola (134)
Molino (127)
Monticello (130)*
Naples (135)
New Smyrna (134)
North Tampa (134)
Oakland Park (135)
Ocala (134)
Okeechobee (135)
Orange City (134)
Orlando (134)
Palatka (134)
Panama City (130)
Pensacola (127)
Perry (130)
Pinecastle (134)
Plant City (134)
Pompano (135)*
Punta Gorda (135)
Quincy (130)
Richmond (135)
Russell (134)
St. Augustine (134)
St. Petersburg (134)
Sanford (134)
Sarasota (135)
Sebastian (134)
Sebring (134)
Stock Island (135)
Stuart (135)
Switzerland (134)
Tallahassee (130)
Tampa (134)
Tennile (130)*
Titusville (134)
Valparaiso (127)
Venice (135)
Vero Beach (134)
Wauchula (134)*
West Palm Beach (135)
Williston (130)
Wimauma (134)*
Winter Haven (134)
Zephyrhills (134)

GEORGIA

Adel (130)
Albany (126,130)
Alma (130)
Americus (126)
Athens (126)
Atlanta (126)
Augusta (131)
Bainbridge (130)
Brunswick (131)
Buford (107)
Butler (126)
Camilla (130)
Carrollton (126)
Cartersville (106)
Cedartown (107)
Cochran (126)
Columbus (126)
Cordele (126)
Dalton (106)
Darien (131)
Dawson (126)
Douglas (130)
Dublin (126)
East Point (126)
Elberton (107)
Fairburn (126)
Fitzgerald (126)
Folkston (131)
Gainesville (107)
Glynco (131)
Griggin (126)
Harris Neck (131)
Hinesville (131)
Homerville (130)
Jackson (126)
Jasper (106)
Jefferson (107)
Jonesboro (126)
La Grange (126)
McRae (126)
Macon (126)
Madison (126)
Madras (126)
Marietta (126,106)
Millen (131)
Milledgeville (126)
Montezuma (126)
Moultrie (130)
Nashville (130)
Newnan (126)
Palmetto (126)
Richmond Hill (131)
Rockmart (106)
Rome (106)
St. Marys (131)
St. Simons Isl. (131)
Savannah (131)
Siloam (126)
Smyrna (126)
Statesboro (131)
Stone Mountain (126)
Swainsboro (126)
Sylvania (131)
Tallapoosa (126)
Thomaston (126)
Thomasville (130)
Tifton (130)
Toccoa (107)
Trion (106)
Turner (130)*
Valdosta (130)
Vidalia (126)
Warm Springs (126)
Warner-Robins (126)
Washington (126)
Waycross (130)
Winder (107)

IDAHO

Aberdeen (23)
American Falls (23)
Anderson Dam (23)
Arco (23)*
Big Springs (8)*
Boise (22)
Buhl (23)*
Burley (23)
Caldwell (22)
Cascade (3)
Cayuse Creek (3)*
Challis (3)
Coeur d' Alene (3)
Dixie (3)*
Dubois (3)
Eagle (22)
Emmett (22)
Glenns Ferry (22)
Gooding (23)
Grangeville (3)
Hagerman (23)*
Hailey (23)
Idaho Falls (23)
Idahome (23)
Jerome (23)
Kamiah (3)
Kellogg (3)
Khedt (3)*
Lake (6)
Lewiston (3)
McCall (3)
Mackay (23)*
Malad City (23)
Montpelier (22)
Mountain Home (22)
Nampa (22)
Orofino (3)
Paris (23)
Parma (22)
Payette (3)
Pocatello (23)
Preston (23)
Priest River (3)*
Red River H. Springs(6)
Rexburg (23)
Richfield (23)
St. Anthony (23)
St. Maries (3)
Salmon (6)
Sandpoint (3)
Shoshone (23)
Strevell (23)
Tensed (3)
Tyhee (22)
Twin Falls (22)
Victor (23)*
Weiser (3)

ILLINOIS

Alexander (31)
Alton (142)
Arcola (67)
Armington (67)
Ashburn (34)
Aurora (139)
Beardstown (31)
Belleville (142)
Bensenville (135)
Bloomington (67)
Blue Island (139)
Blue Mound (67)
Bradford (34)
Cairo (103)
Carbondale (67)
Carmi (67)
Carthage (31)
Champaign (67)
Charleston (67)
Chesterfield (31)
Chicago (139)
Chicago Heights (139)
Clinton (67)
Dalton City (67)
Danville (67)
Decatur (67)
De Kalb (64)
Des Plaines (139)
Dixon (34)
Du Quoin (67)
East St. Louis (142)
Effingham (67)
Elgin (34)
Elmhurst (139)
Fairfield (67)
Flatt (31)
Franklin Park (34)
Freeport (34)
Galesburg (31)
Glenview (34)
Grayslake (34)
Harvey (139)
Havana (31)
Highland (67)
Hinsdale (139)
Homewood (139)
Hoopeston (67)
Jacksonville (31)
Jerseyville (31)
Joliet (139)
Kankakee (34)
La Grange (139)
Lansing (139)
La Salle (34)
Lawrenceville (67)
Lebanon (67)
Lockport (139)
Lombard (139)
Macomb (31)
Marion (67)
Mattoon (67)
Mendota (34)
Moline (31)
Momence (34)
Monmouth (31)
Morris (34)
Mt. Carmel (67)
Mt. Vernon (67)
Muddy (67)
Murphysboro (67)
Newark (34)
Northbrook (34)
Oaklawn (139)
Paris (67)
Pecatonica (34)
Pekin (67)
Peoria (34)
Prairie du Rocher (66)
Princeton (34)
Quincy (31)
Rantoul (67)
Rochester (67)
Rockford (34)
St. Charles (139)
St. David (31)
St. Elmo (67)
Salem (67)
Shelbyville (67)
Sheldon (34)
South Beloit (34)
Springfield (67)
Stegor (34)
Sterling (34)
Stockton (34)
Streator (34)
Sycamore (34)
Taylorville (67)
Tinley Park (139)
Tuscola (67)
Urbana (67)
Utica (34)
Vandalia (67)
Van Orin (34)
Warren (34)
Waukegon (34)

INDIANA

Advance (70)
Anderson (70)
Angola (35)
Attica (67)
Auburn (35)
Bedford (70)
Bloomington (70)
Brownsburg (70)
Bunker Hill (70)
Cedar Grove (70)
Cedar Lake (34)
Chalmers (35)
Clayton (70)
Columbus (70)
Connersville (70)
Crawfordsville (70)
Crown Point (34)
Culver (35)*
Decatur (35)
Elkhart (35)
Elwood (70)
Evansville (67)
Fortville (70)
Fort Wayne (35)
Frankfort (70)
Franklin (70)
French Lick Sprgs(70)*
Gary (139)
Goshen (35)
Greencastle (70)
Greenfield (70)
Greensburg (70)
Greenwood (70)
Hobart (139)
Huntingburg (70)
Huntington (35)
Indianapolis (70)
Kingman (67)
Knox (35)
Kokomo (70)
Lafayette (70)
Lake Village (34)
La Porte (35)
Lebanon (70)
Linton (67)
Logansport (35)
Lowell (34)
McCool (139)
Madison (70)
Marion (70)
Michigan City (35)
Milroy (70)
Mishawaka (35)
Monticello (35)
Moorefield (70)
Morgantown (70)
Muncie (70)
New Carlisle (35)
New Castle (70)
North Manchester (35)
Notre Dame (35)
Oaktown (67)
Orleans (70)
Perrysville (67)
Peru (35)
Plainfield (70)
Plymouth (35)
Portland (70)
Ramsey (70)
Rensselaer (34)
Richmond (70)
Rochester (35)
Rushville (70)
Salem (70)
Selma (70)
Seymour (70)
Shelbyville (70)
Sheridan (70)
South Bend (35)
Terre Haute (67)
Valparaiso (70)
Vincennes (67)
Wabash (35)
Warsaw (35)
Wellsboro (35)
Winchester (70)
Zionsville (70)

IOWA

Adair (31)
Algona (31)
Anita (31)
Ames (31)
Armstrong (31)
Atlantic (30)
Audubon (30)
Bellevue (31)
Burlington (31)
California (30)
Carroll (31)
Cedar Rapids (31)
Centerville (31)
Charlton (31)
Cherokee (30)
Clarinda (30)
Clarion (31)
Clermont (31)
Clinton (31)
Columbus Jct. (31)
Conrad (31)
Council Bluffs (30)
Creston (31)*
Davenport (31)
Decorah (31)
Denison (30)
Des Moines (31)
Dows (31)
Dubuque (31)
Dyersville (31)
Earlham (31)
Eldora (31)
Emmetsburg (31)
Estherville (31)
Fiscus (30)
Floyd (31)
Fort Dodge (31)
Glenwood (30)
Grimes (31)
Grinnell (31)
Grand Mound (31)*
Grundy Center (31)
Guthrie Center (31)
Hancock (30)
Harlan (30)
Ida Grove (30)
Iowa City (31)
Iowa Falls (31)
Jefferson (31)
Keokuk (31)
Lake City (31)
Lamoni (31)
Le Mars (30)
Leon (31)
Lucas (31)
Manning (30)
Marshalltown (31)
Mason City (31)
Mechanicsville (31)
Melbourne (31)
Milford (30)
Missouri Valley (30)
Monona (30)
Monroe (31)
Montezuma (31)
Mt. Ary (31)
Mt. Pleasant (31)
Muscatine (31)
Newton (31)
Ocheydean (30)
Onawa (30)
Ottumwa (31)
Pella (31)
Perry (31)
Pocahontas (31)
Randolph (30)*
Red Oak (30)
Rock Rapids (30)
Sac City (31)
Seymour (31)
Sheldon (30)
Sioux City (30)
Sloan (30)
Spencer (30)
Spirit Lake (30)
Storm Lake (30)
Strawberry Point (31)
Stuart (31)
Sutherland (30)
Traer (31)
Washington (31)
Waterloo (31)
Webster City (31)
Wesley (31)

Hillsboro (67)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page.

KANSAS

Abilene (62)
Anthony (62)
Arkansas City (62)
Ashland (59)
Atwood (27)
Augusta (62)
Belleville (30)
Beloit (30)
Bern (30)
Brewster (27)
Caldwell (62)
Cassoday (62)
Cedar Point (62)
Chanute (63)
Clay Center (30)
Coffeyville (63)
Colby (27)
Coldwater (59)
Concordia (30)
Derby (62)
De Soto (31)
Dodge City (59)
Downs (30)
Edwardsville (31)
El Dorado (62)
Ellinwood (62)
Emporia (62)
Eureka (62)
Ft. Leavenworth (31)
Ft. Riley (30)
Fort Scott (63)
Garden City (59)
Gardner (63)*
Garnett (63)*
Girard (63)
Goodland (27)
Great Bend (59,62)
Greensburg (59)
Hays (59)
Hazelton (62)
Herington (62)
Hiawatha (30)
Hoisington (62)
Holton (30)
Holyrood (62)
Hutchinson (62)
Independence (63)
Iola (63)
Johnson (59)
Kansas City (31)
Kechi (62)
Kingman (62)
Kinsley (59)
Kiowa (62)
Lakin (59)
Larkinburg (30)
Larned (59)
Lawrence (30)
Leavenworth (31)
Lebo (63)
Lenora (27)*
Liberal (59)
Lyons (62)
McPherson (62)
Manhattan (30)
Mankato (30)
Marion (62)*
Meade (59)
Medicine Lodge (62)
Moundridge (62)
Newton (62)
Norton (30)
Oberlin (27)
Olathe (63)
Ottawa (63)
Oxford (62)
Paola (63)
Parsons (63)
Phillipsburg (30)*
Pittsburg (63)
Plains (59)
Pratt (62)
Russell (59)
St. Francis (27)
Salina (62)
Satanta (59)
Scott City (59)
Sedan (62)
Seneca (30)
Sharon Springs (59)
Smith Center (30)
Stafford (62)
Summerfield (30)
Syracuse (59)
Topeka (30,63)
Towanda (62)
Viola (62)
Wakefield (30)
Wellington (62)
Wellsville (63)
Wichita (62)
Winfield (62)

KENTUCKY

Ashland (71)
Bowling Green (106)
Covington (70)
Danville (70)
Eastwood (70)
Fort Knox (70)
Frankfort (70)
Glendale (70)
Hopkinsville (103)
Lexington (70)
London (107)
Louisville (70)
Madisonville (67)
Mayfield (103)
Maysville (71)
Middlesboro (107)
Owensboro (67)
Paducah (103)
Paris (70)
Russell (71)
Shelbyville (70)
Shepherdsville (70)
Somerset (106)
Sturgis (67)
Sulphur (70)
Union (70)
Warsaw (70)

LOUISIANA

Alexandria (119,122)
Arcadia (99)
Barataria (122)
Bastrop (99)
Baton Rouge (122)
Bogalusa (122)
Camp Polk (119)
Covington (122)
Crowley (119)
Delhi (102)
De Quincy (119)*
De Ridder (119)
Dixie (99)
Donaldsonville (122)
Eunice (122)
Ferriday (122)
Gilbert (122)
Grand Isle (122)*
Hammond (122)
Hodge (119)
Houma (122)
Jennings (119)
Lafayette (122)
Lake Charles (119)
La Place (122)
Leesville (119)
Madisonville (122)
Mansfield (119)
Many (119)*
Minden (99)
Monroe (102)
Natchitoches (119)
Newellton (122)
New Iberia (122)
New Orleans (122)
New Roads (122)
Oakdale (119)*
Opelousas (122)
Patterson (122)
Pollock (119)
Ruston (102)
St. Joseph (122)
Shreveport (99)
Springhill (99)
Tallulah (102)
Westwego (122)*
Winnfield (119)
Winnsboro (122)

MAINE

Andover (18)*
Auburn (18)
Augusta (18)
Bangor (18)
Bar Harbor (18)
Bath (46)*
Belfast (18)
Bethel (18)
Biddeford (46)
Boothbay (46)*
Bowdoinham (46)
Brewer (18)
Brunswick (46)
Caribou (18)
Deblois (18)
Dexter (18)
Eagle Lake (18)*
East Corinth (18)
East Holden (18)*
Eastport (18)
Farmington (18)
Freeport (46)
Fryeburg (18)
Greenville (18)
Greenville Jct. (18)*
Houlton (18)
Kennebunk (46)
LaGrange (18)
Lewiston (18)
Limestone (18)
Madison (18)*
Millinocket (18)
Minot (18)
Naples (46)*
Newport (18)
Norridgewock (18)
Norway (18)
Old Town (18)
Phillips (18)
Pittsfield (18)
Pittston (18)
Portage (18)*
Portland (46)
Presque Isle (18)
Princeton (18)
Rangeley (18)
Rockland (18)
Sanford (46)
Scarboro (46)
Shinn Pond (18)*
Skowhegan (18)
South Portland (46)
Turner (18)
Waterville (18)
West Buxton (46)
Winterport (18)
Winthrop (18)*
Yarmouth (46)

MARYLAND

Aberdeen (75)
Annapolis (75)
Baltimore (75)
Beltsville (78)
Berwyn (78)
Brandywine (75)*
Camp Springs (78)
Churchville (75)
Clinton (78)
College Park (78)
Croom (78)
Cumberland (74)
Doncaster (75)
Easton (75)
Edgewood Arsenal (75)
Fort Meade (78)
Frederick (75)
Glenburnie (75)
Greenbelt (78)
Hagerstown (75)
Hyattsville (78)
Meekins Neck (75)
Ocean City (75)
Patuxent River (75)
Piney Point (75)
Pomonkey (78)*
Priest Point (75)
Riverdale (78)
Rock Hall (75)
Rock Hall (75)
Rockville (78)
Salisbury (75)
Shady Side (75)*
Taneytown (75)
Westminster (75)
Worton (75)*

MASSACHUSETTS

Adams (43)
Agawam (43)
Auburn (46)
Ayer (46)
Bedford (46)
Beverly (46)
Billerica (46)
Boston (46)
Brant Rock (46)
Brockton (46)
Brookfield (43)
Canton (46)
Chatham (46)
Chicopee Falls (43)
Clinton (46)
Easton (46)
Edgartown (46)
Everett (46)
Falmouth (46)
Fitchburg (46)
Franklin (46)
Gardner (43)
Great Barrington (43)
Groton (46)
Haverhill (46)
Holyoke (43)*
Hyannis (46)
Lawrence (46)
Leicester (46)
Mansfield (46)
Marlboro (46)
Mendon (46)
Montague (43)
Myricks (46)
Nantucket Island (46)
New Bedford (46)
Newburyport (46)
Norfolk (46)
North Adams (43)
Northampton (43)
North Attleboro (46)
North Grafton (46)
Norwood (46)
Oak Bluffs (46)
Orange (43)
Palmer (43)
Peabody (46)
Pittsfield (43)
Rowley (46)*
Salem (46)*
Seekonk (46)
South Boston (46)
South Easton (46)
South Weymouth (46)
Springfield (43)
Squantum (46)
Swansea (46)*
Taunton (46)
Vineyard Haven (46)
Wareham (46)*
West Barnstable (46)
Westboro (46)
Westfield (43)
Williamstown (43)
Worcester (46)

MICHIGAN

Adrian (35)
Algonac (38)
Allegan (35)
Alma (35)
Alpena (15)
Amasa (15)*
Ann Arbor (38)
Armada (38)
Atlanta (15)
AuGres (15)*
Baldwin (15)*
Bangor (35)
Battle Creek (35)
Bay City (38)
Belding (35)
Bellaire (15)*
Benton Harbor (35)
Big Beaver (38)
Big Lake (15)*
Big Rapids (35)
Birmingham (38)
Blaney (15)
Breedsville (35)
Cadillac (15)
Calumet (15)
Caro (38)
Centerville (35)*
Charlevoix (15)
Charlotte (35)
Clare (15)*
Clio (38)
Coldwater (35)
Croswell (38)
Crystal Falls (15)
Davison (38)
Detroit (38)
Douglas (35)
Dowagiac (35)
East Jordan (15)*
Elsie (35)
Escanaba (15)
Farmington (38)
Flint (38)
Fostoria (38)
Frankfort (15)
Fraser (38)
Gaylord (15)
Gladwin (15)
Grand Ledge (35)
Grand Rapids (35)
Grayling (15)
Greenville (35)
Harbor Beach (15)*
Harrison (15)*
Hartford (35)
Hastings (35)
Hillman (15)
Hillsdale (35)
Holland (35)
Houghton (15)
Houghton Heights (15)
Howell (38)
Indian River (15)*
Ionia (35)
Iron Mountain (35)
Ironwood (14)
Ishpeming (15)*
Ithaca (35)
Jackson (35)
Kalamazoo (35)
Kalkaska (15)*
Kinross (15)
Lakeview (35)
Lansing (35)
Lapeer (38)
Lawton (35)
Loretto (15)*
Ludington (15)
Mackinaw City (15)*
Manistee (15)
Manistique (15)*
Marenisco (15)*
Marquette (15)
Marshall (35)
Mason (35)
Menominee (15)
Midland (35)
Milan (38)
Mio (15)*
Mt. Clemens (38)
Mt. Pleasant (35)
Munising (15)*
Muskegon (35)
Newaygo (35)
Newberry (15)*
Newport (38)
Niles (35)
North Muskegon (35)*
Norway (15)
Onaway (15)*
Oscoda (35)
Owosso (35)
Pellston (15)
Petoskey (15)*
Plymouth (38)
Pontiac (38)
Port Huron (38)
Prudenville (15)*
Raco (15)
Rexton (15)*
Rogers City (15)
Romulus (38)
Roscommon (15)*
Roseville (38)
Rothbury (35)
Saginaw (35,38)
St. Helen (15)
St. Ignace (15)
St. James (15)*
Saline (38)
Sault Ste Marine (15)
Sidnaw (15)*
South Branch (15)
South Haven (35)
Sparta (35)
Sturgis (35)
Tecumseh (38)
Three Rivers (35)
Traverse City (15)
Trenton (38)
Utica (38)
Warren (38)
Watersmeet (15)*
Wayne (38)
West Branch (15)
White Cloud (35)*
Whitmore Lake (38)
Wildwood (15)
Wixom (38)
Wyandotte (38)
Ypsilanti (38)

MINNESOTA

Aitkin (14)
Albert Lea (31)
Alexandria (11)
Amboy (31)
Anoka (14)
Appleton (11)
Austin (31)
Barnesville (11)
Baudette (14)
Bemidji (14)
Benson (11)
Blue Earth (31)
Brainerd (14)
Cokato (14)
Coleraine (14)
Crookston (11)
Detroit Lakes (11)
Dodge Center (14)
Duluth (14)
Ely (14)
Fairmont (31)
Faribault (14)
Fergus Falls (11)
Frontenac (14)
Graceville (11)
Grand Rapids (14)
Hamel (14)
Hastings (14)
Hector (14)
Hibbing (14)
Jordan (14)
Kenyon (14)
Lake City (14)
Le Sueur (14)
Little Falls (14)
Littlefork (14)
Litchfield (14)
Luverne (30)
Madison (11)
Mankato (14)
Marcell (14)*
Marshall (11)
Mayer (14)*
Minneapolis (14)
Montevideo (11)
Monticello (14)
Morris (11)
New Brighton (14)
Nisswa (14)
New Elm (14)
Ortonville (11)
Osseo (14)
Park Rapids (11)
Pipestone (30)
Princeton (14)
Redwood Falls (11)
Robbinsdale (14)
Rochester (14,31)
St. Cloud (14)
St. Paul (14)
St. Peter (14)
Sherburn (31)
South St. Paul (14)*
Stanton (14)
Taylor Falls (14)
Thief River Falls (11)
Tofte (14)
Triumph (31)
Virginia (14)
Wadena (11)
Waseca (14)
Westbrook (11)
White Bear Lake (14)
Willmar (11)
Winona (14)
Worthington (30)

MISSISSIPPI

Aberdeen (123)
Batesville (102)
Biloxi (127)
Brookhaven (122)
Canton (102)*
Clarksdale (102)
Cleveland (102)
Columbus (123)
Corinth (103)
Ellisville (127)*
Eupora (123)
Flora (102)
Forest (123)
Glen Allan (102)
Greenville (102)
Greenwood (102)
Grenada (123)
Gulfport (127)
Hattiesburg (127)
Heads (102)*
Houston (123)
Jackson (122)
Laurel (123)
Leland (102)
McComb (122)
McLaurin (127)
Marks (102)
Meridian (123)
Moorhead (102)
Natchez (122)
Nesbitt (102)
Newton (123)*
Oxford (103)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page

Pascagoula (127)
Pelahatchee (123)
Picayune (124)
Rockport (128)
Starkville (123)
Tupelo (103)
Tylertown (128)
Vicksburg (102)
Walls (102)
Winona (59)
Yazoo (102)
Yokena (122)
Zeiglerville (102)

MISSOURI

Advance (103)
Bethany (31)
Bolivar (63)
Boonville (66)
Bowling Green (81)
Branson (63)*
Brookfield (31)
Butler (63)
Cameron (31)
Campbell (66)
Cape Girardeau (103)
Carthage (63)
Cassville (63)
Chillicothe (31)
Clinton (63)
Columbia (66)
Craig (30)
Diamond (63)
Ellisville (148)
Excelsior Spgs. (81)
Farmington (66)
Fayette (31)
Fenton (142)
Festus (66)
Fulton (66)
Garden City (63)
Grant City (31)
Gravois Mills (66)*
Hannibal (31)
Harrisonville (63)
Houston (66)
Iberia (66)
Independence (81)
Jefferson City (66)
Joplin (63)
Kansas City (31,63)
Kennett (66)*
Kirksville (31)
Kirkwood (142)
Knobnoster (63)
Lebanon (66)
Lexington (31)
Linkville (31)
Luray (31)
McBride (67)
Machens (142)*
Malden (103)
Marceline (31)
Marshall (31)
Marysville (31)
Mexico (31)
Moberly (31)
Monett (63)
Neosho (63)
Nevada (63)
New Florence (66)
Osborn (31)
Poplar Bluffs (66)*
Rolla (66)
St. Charles (148)
St. Joseph (31)
St. Louis (148)
St. Peters (66)
Savannah (31)
Sedalia (63)
Sikeston (103)*
Slater (31)
Spanish Lake (66,148)
Springfield (63)
Tarkio (30)
Trenton (31)
Unionville (31)
Valley Park (142)
Versailles (66)
Vichy (66)
Warrensburg (63)
West Plains (66)
Windsor (63)

MONTANA

Alberton (6)
Baker (10)
Belt (6)
Big Timber (7)
Billings (7)
Birney (7)*
Bozeman (6)
Butte (6)
Cascade (6)
Chester (6)
Chinook (7)*
Choteau (6)
Circle (7)
Columbus (7)
Conrad (6)
Custer (7)
Cut Bank (6)
Deer Lodge (6)
Dell (6)
Denton (7)
Dillon (6)
Drummond (6)
Ennis (6)*
Eureka (3)
Flathead (6)*
Forsyth (7)
Fort Benton (6)
Fort Peck (7)
Gates Park (6)*
Geraldine (6)
Geyser (6)
Glasgow (7)
Glendive (10)
Great Falls (6)
Gregson (6)
Hamilton (6)
Hardin (7)*
Harlem (7)
Harlowton (7)
Havre (7)
Helena (6)
Homestake (6)
Hot Springs (6)*
Huson (6)*
Ingomar (7)*
Jordan (7)*
Kalispell (6)
Lavina (7)
Lewistown (7)
Libby (3)
Livingston (6)
McDonald Pass (6)
Malta (7)
Mildred (7)
Miles City (7)
Missoula (6)
Mullan Pass (3)
Nibbe (7)
Park City (7)
Plains (6)
Plentywood (16)
Polesbridge (6)
Polson (6)
Poplar (7)*
Rapelje (7)
Red Lodge (7)*
Roundup (7)*
St. Xavier (7)
Scobey (7)
Seeley Lake (6)*
Shelby (6)
Sheridan (7)
Sidney (10)
Stanford (6)
Stevensville (6)
Superior (6)
Tampico (7)
Thompson Falls (3)
Townsend (6)
Troy (3)*
Twin Bridges (6)
Valier (6)
Vida (7)
West Yellowstone (6)
Whitehall (6)
White Sulphur Spgs. (6)
Whitetail (6)
Winston (6)
Wolf Point (7)

NEBRASKA

Ainsworth (30)
Alliance (27)
Atkinson (30)
Auburn (30)
Bayard (27)
Beatrice (30)
Beaver City (30)
Benkelman (27)
Big Springs (27)
Blair (30)
Brainard (30)
Broken Bow (30)
Bruning (30)
Chadron (30)
Chappell (27)
Clay Center (30)
Columbus (30)
Cozad (30)
Crawford (27)
Crete (30)
David City (30)
Decatur (30)
Elgin (30)
Fairbury (30)
Falls City (30)
Fort Robinson (27)
Fremont (30)
Geneva (30)
Gordon (27)
Grand Island (30)
Harvard (30)
Hastings (30)
Hayes Center (27)
Hay Springs (27)
Hebron (30)
Holdrege (30)
Humboldt (30)
Imperial (27)
Kearney (30)
Lexington (30)
Lincoln (30)
Lorenzo (27)
McCook (27)
Mead (30)
Mitchell (27)
Norfolk (30)
North Platte (27)
Ogallala (27)
Ohiowa (30)
Omaha (30)
Oshkosh (27)
Overton (30)
Pender (30)
Rushville (27)*
Scottsbluff (27)
Scribner (30)
Seneca (27)
Sidney (27)
Tecumseh (30)
Valentine (27)*
Wayne (30)
Weeping Water (30)

NEVADA

Alamo (54)*
Austin (22,51)
Battle Mountain (22)
Boulder City (54)
Buffalo Valley (22)
Caliente (54)
Carlin (22)
Carson City (51)
Crystal (54)
Deeth (22)
Elko (22)
Ely (23)
Fallon (51)
Fernley (51)
Gabbs (51)
Hawthorne (51)
Humboldt (22)
Indian Springs (54)
Las Vegas (54)
Lovelock (22,51)
Manhattan (51)*
Minden (51)
Mormon Mesa (54)
Orovada (22)*
Owyhee (22)
Reno (51)
Scottys (51)
Searchlight (54)*
Smith (51)
Sparks (22,51)
Tonopah (51)
Ventosa (23)
Wadsworth (22)
Wells (23)
Winnemucca (22)
Yerington (51)

NEW HAMPSHIRE

Alton Bay (46)*
Berlin (18)
Boscawen (46)
Claremont (43)
Concord (46)
Haverhill (58)
Hampton (46)
Hinsdale (43)
Hooksett (46)
Keene (43)
Lakeport (46)*
Lancaster (18)
Laconia (46)
Lebanon (43)
Littleton (18)
Manchester (46)
Nashua (46)
Newport (43)
North Conway (18)
Plymouth (46)
Portsmouth (46)
Sommersworth (46)
The Weirs (46)*
Twin Mountain (18)
Whitefield (18)
Wolfeboro (46) (91)

NEW JERSEY

Adamston (79)*
Almonesson (78)
Andover (79)
Asbury Park (79)
Ashland (78)
Atlantic City (79)
Auburn (75)
Barrington (78)
Basking Ridge (79)
Belmar (79)
Belvidere (42)
Bendix (79)
Blairstown (43,79)
Boonton (79)
Bridgeport (78)
Bridgeton (75)
Burlington (78)
Caldwell (79)
Camden (78)
Cape May (79)
Cassville (79)
Chatsworth (79)*
Clarksville (79)
Clinton (79)
Elizabeth (79)
Forked River (79)
Freehold (79)
Glassboro (78)
Greenwich (75)
Hackettstown (79)
Hightstown (79)
Keyport (79)*
Lakehurst (79)
Landisville (79)
Lebanon (79)
Lincoln Park (79)
Little Ferry (79)*
Medford (79)
Metuchen (79)
Millville (75)
Moorestown (78)
Morristown (79)
Newark (79)
New Brunswick (79)
North Brunswick (79)
Ocean City (79)*
Paterson (79)
Pennington (79)
Penns Grove (75)
Perth Amboy (79)*
Pitman (78)
Pittstown (75)
Princeton (79)
Rahway (79)
Readington (79)
Red Bank (79)
Richland (79)
Salem (75)
Sussex (43)
Trenton (79)
Vineland (75)
Wildwood (79)
Woodbine (79)
Woodbridge (79)
Wrightstown (79)

NEW MEXICO

Acomita (55)
Alamogordo (90)
Albuquerque (58)
Anton Chico (58)
Artesia (90)
Aztec (55)*
Belen (58)
Berino (87)
Carlsbad (90)
Carrizozo (90)
Clayton (58)
Clovis (58)
Columbus (87)
Cubero (55)*
Cuervo (58)
Deming (87)
Dora (90)
Eagle Nest (58)*
El Morro (55)
Engle (87)
Farmington (66)
Fort Sumner (58)
Gallup (55)
Hachita (87)
Harrington Ranch (87)
Hobbs (91)
Hot Springs (87)
Hurley (87)
Jal (91)
Juan Tomas (58)
Las Cruces (87)
Las Vegas (58)
Lordsburg (86)
Lovington (90)
Magdalena (58)
Maxwell (58)*
Mesilla Park (87)
Milnesand (90)
Mountainair (58)
Mount Riley (87)
Otto (58)
Peralta (58)
Portales (58)
Raton (58)
Ridgefield Park (79)*
Rodeo (86)
Roswell (90)
Roy (58)*
Ruidoso (90)*
Santa Fe (58)
Secaucus (79)*
Shiprock (55)*
Silver City (87)
Strauss (87)
Taos (58)
Tucumcari (58)
Tularosa (87)*
Wagon Mound (58)

NEW YORK

Accord (43)*
Albany (43)
Alplaus (43)*
Amityville (79)
Angola (39)
Amsterdam (43)
Arcade (39)
Armonk (43)
Auburn (42)
Auriesville (43)
Babylon (79)*
Ballston Spa (43)
Batavia (39)
Bayport (79)*
Bedford (43)*
Beekman (43)
Bethpage (79)
Billings (43)
Binghamton (42)
Blasdell (39)
Boonville (42)
Brentwood (79)*
Buffalo (39)
Cairo (43)
Canastota (42)
Carlisle (43)
Carthage (42)
Catskill (43)
Cheektowaga (39)
Cicero (43)
Clarence (39)
Clason's Point (79)
Colonie (43)
Cooperstown (43)
Cortland (42)
Dansville (42)
Deer Park (79)*
Delanson (43)
Depew (39)
Dobbs Ferry (43)*
Dunkirk (39)
Eagle Bay (43)*
East Amherst (39)
East Greenbush (43)
East Hampton (79)
East Pembroke (39)
Edgemere (79)
Elmira (42)
Endicott (42)
Falconer (39)
Farmingdale (79)
Fisher's Island (43)
Flatbush (79)
Flushing (79)
Fort Plain (43)
Fredonia (38)
Fulton (42)
Gardenville (39)
Geneva (42)
Getzville (39)
Glens Falls (43)
Gloversville (43)
Gowanda (39)
Great Bend (18)
Greenridge (79)
Halcott Center (43)
Hamburg (39)
Hamilton (42)
Hammondsport (42)
Hancock (42)*
Hempstead (79)
Herkimer (43)
Hicksville (79)
Hilton (42)
Honeoye Falls (42)
Hornell (42)
Horseheads (42)
Idlewild (79)
Islip (79)
Ithaca (42)
Jamestown (39)
Johnstown (43)
Keene (18)*
Keeseville (18)
Kingston (43)
Kirkville (43)
Lake George (43)*
Lake Placid (18)
Lancaster (39)
Lockport (39)
Malone (18)
Margaretville (43)
Massapequa (79)
Massena (18)
Mastic (79)
Mattituck (79)
Medina (39)
Medway (43)
Mexico (42)
Middleburg (43)
Middletown (43)
Mineola (79)
Minoa (42)
Montauk (43)*
Montgomery (43)
Monticello (43)
Montour Falls (42)
Moravia (42)
Narrowsburg (42)
Newark (42)
New Baltimore (43)
Newburgh (43)
New City (43)
New Hackensack (43)
New Springville (79)
New York (79)
Niagara Falls (39)
North Long Beach (79)*
North Tonawanda (39)
Northville (43)
Norwich (42)
Nyack (43)
Ogdensburg (18)
Olcott (39)
Olean (39)
Oneonta (42)
Ossining (63)*
Owasco (42)*
Oyster Bay (79)*
Painted Post (42)
Palmyra (42)
Penn Yan (42)
Perry (39)
Piseco (43)
Pittsford (42)
Plattsburg (18)
Port Chester (79)
Port Jervis (43)
Port Washington (79)*
Potsdam (18)
Pulaski (42)
Ravena (43)
Red Creek (42)
Rexford (43)
Rhinebeck (43)
Richland (42)
Richmondville (42)
Ripley (39)
Rochester (42)
Rockaway Park (79)
Rome (42)
Round Lake (43)*
Sag Harbor (43)*
Salamanca (39)
Saranac Lake (18)
Saratoga Springs (43)
Sayville (79)*
Schenectady (39,43)
Schuylerville (43)
Scottsville (42)
Selkirk (43)*
Seneca Falls (42)
Sidney (42)
Silver Creek (39)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page.

Silver Springs (39)
Somers (43)
Springville (39)
Stephentown (43)
Stormville (43)
Syracuse (42)
Ticonderoga (43)
Tonawanda (39)
Travis (79)•
Troy (43)
Tupper Lake (18)
Utica (42)
Valley Stream (79)
Walden (43)
Walkill (43)
Wappingers Falls (43)
Warwick (43)
Watertown (42)
Wellsville (18)•
Westfield (39)•
Westhampton Beach (79)
Westport (18)
White Plains (43)
White Stone (79)•
Whitesville (42)
Williamsville (39)
Wingdale (43)
Wolcottsville (39)
Wurtsboro (43)
Yonkers (79)•

NORTH CAROLINA

Aberdeen (110)
Albermarle (110)
Asheboro (110)
Asheville (107)
Atlantic (111)
Aydlette (111)
Barco (111)
Beaufort (111)
Belmont (110)
Black Mountain (107)
Bogue (111)
Burgaw (111)
Burlington (110)
Candor (110)•
Carolina Beach (111)
Chapel Hill (110)
Charlotte (110)
Cherry Point (111)
Clinton (111)
Concord (110)
Derita (110)
Draper (110)
Durham (110)
Eagle Springs (110)
Edenton (111)
Elizabeth City (111)
Elkin (110)
Erwin (111)
Fayetteville (110)
Fort Bragg (110)
Franklin (107)
Gastonia (110)
Gibsonville (110)
Goldsboro (111)
Greensboro (110)
Greenville (111)
Henderson (111)
Hendersonville (107)
Hickory (110)
High Point (110)
Hoffman (110)
Jacksonville (111)•
Jonesville (110)
Kannapolis (110)
Kings Mountain (110)
Kinston (111)
Lillington (110)
Lincolnton (110)
Louisburg (111)
Lumberton (110)
Manteo (111)
Marion (107)
Maxton (110)
Mayodan (110)
Mocksville (110)
Monroe (110)
Morganton (107)
Mt. Airy (110)
Mt. Olive (111)
New Bern (111)
New River (111)
North Wilkesboro (110)
Oxford (110)
Pinehurst (110)
Pollocksville (111)
Raleigh (110)
Red Springs (110)
Reidsville (110)
Roanoke (110)
Rockingham (110)
Rocky Mount (111)
Roxboro (110)
Salisbury (110)
Sanford (110)
Selma (111)
Shelby (107)
Southern Pines (110)
South Mills (111)
Spindale (107)
Statesville (110)
Sylva (107)
Tarboro (111)
Wadesboro (110)
Wallace (111)
Warrenton (111)
Washington (111)
Weeksville (111)
West Jefferson (107)
Whiteville (110)
Wilmington (111)
Wilson (111)
Winston-Salem (110)
Yanceyville (110)
Zebulon (111)

NORTH DAKOTA

Abercrombie (11)
Ashley (11)
Beach (10) (38)
Bismarck (10)
Bowman (10)
Cando (11)
Carrington (11)
Crosby (10)
Dawson (11)
Devils Lake (11)
Dickinson (10)
Driscoll (10)
Dunseith (10)•
Fargo (11)
Fessenden (11)
Glen Ullin (10)
Golva (10)
Grand Forks (11)
Harvey (11)
Jamestown (11)
Judson (10)
Killdeer (10)
Langdon (11)
Lisbon (11)
Minot (10)
Mohall (10)
Mott (10)
New England (10)
New Rockford (11)
Parshall (10)
Pembina (11)
Rhame (10)
Rolla (11)
Rugby (10)
Towner (10)
Valley City (11)
Walhalla (11)
Washburn (10)
Watford (10)
West Fargo (11)
Wheatland (11)
Williston (10)
Wyndmere (11)

OHIO

Akron (38)
Alliance (38)
Amanda (71)•
Archbold (35)
Ashland (38)
Ashtabula (39)
Athens (71)
Avon Lake (38)
Barberton (38)
Bedford (139)
Bowling Green (38)
Brecksville (38)
Brookfield (39)
Bucyrus (38)
Cambridge (71)
Canton (38)
Chagrin Falls (139)
Chardon (139)
Cherry Fork (71)
Chesapeake (71)
Chillicothe (71)
Cincinnati (70)
Cleveland (138)
Coldwater (70)
Columbus (71)
Conneaut (39)
Crooksville (71)
Dayton (70)
Defiance (35)
E. Liverpool (39)
Elyria (139)
Fairfield (70)
Findlay (38)
Fremont (38)
Fostoria (38)
Galion (38)
Gallipolis (71)•
Greenford (39)
Greenville (70)
Grove City (71)
Hamilton (70)
Harrison (70)•
Hayesville (38)
Hicksville (35)
Hilliard (71)
Homerville (38)
Hudson (139)
Jackson (71)
Johnsville (70)
Kellys Island (38)•
Kent (38)
Kenton (71)
Lancaster (71)
Lebanon (70)•
LeRoy (38)
Lewisburg (70)
Lima (35)
Lorain (139)
Loveland (70)
Magnolia (71)
Mansfield (38)
Marietta (71)
Marion (71)
Mason (70)
Massillon (38)
Medina (38)
Middletown (70)
Minford (71)
Montezuma (70)
Morrow (70)
Mt. Liberty (71)
Mt. Orab (71)
Mt. Vernon (71)
Nevada (75)
Newark (71)
New Holland (71)
New Paris (70)
New Philadelphia (71)
North Benton (38)
Northfield (139)
North Royalton (38)
Norwalk (38)
Oxford (70)
Paulding (35)
Perry (38)
Piqua (70)
Port Clinton (38)
Portsmouth (71)
Put-In-Bay (38)
Rushsylvania (71)•
Sandusky (38)
Sharonville (70)
Sidney (70)
Solon (139)
Springfield (71)
Summit Station (71)
Tiffin (38)
Tiltonsville (74)•
Toledo (38)
Toronto (74)
Troy (70)
Urbana (71)
Vandalia (70)•
Van Wert (35)
Vermilion (139)
Verona (70)
Warren (39)
Washington (71)
Watertown (71)
Wauseon (35)
Wellington (38)
Willard (38)
Williamsfield (39)
Willoughby (139)
Wilmington (71)
Woodsfield (71)•
Wooster (38)
Youngstown (39)
Zaleski (71)•
Zanesville (71)

OKLAHOMA

Ada (98)
Afton (42)
Altus (94)
Anadarko (98)
Antlers (96)
Alva (62)
Ardmore (95)
Atoka (95)
Bartlesville (62)
Blackwell (62)
Boise City (59)
Buffalo (59)
Calumet (98)
Carnegie (94)
Cherokee (62)
Cheyenne (94)
Chickasha (95)
Claremore (63)
Clinton (94)
Cordell (94)
Cushing (62)
Delhi (94)
Dill (94)
Duncan (95)
Durant (95)
Edmond (62)
Elk City (94)
El Reno (98)
Enid (62)
Erick (94)
Fort Cobb (98)
Frederick (94)
Gage (59)
Geary (98)
Grandfield (94)
Guthrie (62)
Guymon (59)
Heavener (99)•
Hobart (94)
Holdenville (95)
Hollis (94)
Hugo (99)
Idabel (99)
Jefferson (62)
Jet (62)
Kingfisher (62)
Lamont (62)
Langston (62)
Lawton (94,95)
Lexington (98)
McAlester (95)
Mangum (94)
Marietta (95)
Marlow (95)
Miami (63)
Moore (98)
Moseley (63)
Muskogee (99)
Nashoba (99)•
Newalla (95)
Newkirk (62)
Norman (98)
Nowata (63)
Oklahoma City (63,98)
Okmulgee (95)
Pauls Valley (95)
Pawhuska (62)
Perry (62)
Picher (63)
Ponca City (62)
Poteau (99)•
Pryor (63)
Red Fork (62)
Roosevelt (94)
Sapula (62)
Sayre (94)
Seminole (95)
Sentinel (94)
Shawnee (95)
Skiatook (62)
South Coffeyville (63)
Stillwater (62)
Stilwell (63)
Stroud (62))
Tahlequah (63)
Thomas (62)
Tishomingo (95)•
Tonkawa (62)
Tulsa (62,63)
Verdigris River (63)
Vinita (63)
Walters (96)
Washington (96)
Watonga (62)
Weatherford (94)
Wetumka (95)
Wewoka (96)
Woodward (59)
Yukon (98)

OREGON

Albany (2)
Alkali (22)
Arlington (2)
Astoria (2)
Aurora (142)
Baker (3)
Bay Ocean (2)
Beaver Marsh (19)
Beaverton (142)
Bend (2)
Boardman (3)
Brooks (2)
Burns (22)
Cabbage Hill (3)
Canby (142)
Cave Junction (19)•
Corvallis (2)
Cow Creek (19)
Dallas (2)•
Denmark (19)
Elgin (3)•
Eugene (2)
Grants Pass (19)
Gresham (142)
Harrisburg (2)
Hermiston (3)
Hillsboro (142)
Hood River (2)
Idanha (2)•
John Day (3)
Joseph (3)
Klamath Falls (19)
La Grande (3)
Lakeside (19)
Lakeview (19)
Lebanon (2)
Lexington (3)•
McMinnville (2)
McNary (2)
Madras (2)
Medford (19)
Milton (3)
Milwaukie (142)•
Monmouth (2)
Mulino (142)
Myrtle (19)
Newberg (142)•
Newport (2)
North Bend (19)
Ocean Lake (2)•
Ontario (3)
Oregon City (142)
Pendleton (3)
Pilot Rock (3)
Portland (142)
Prineville (2)
Redmond (2)
Riddle (19)
Rome (22)
Roseburg (19)
Scappoose (142)
Sheridan (2)
Silverton (2)•
Sutherlin (19)
Sweet Home (2)
The Dalles (2)
Tillamook (2)
Trail (19)
Troutdale (142)
Vernonia (2)
Wasco (2)
Williamette (2)
Woodburn (142)
Worden (19)

PENNSYLVANIA

Allentown (42,74,75)
Altoona (74)
Ambler (78)
Andreas (42)
Aspinwall (74)•
Athens (42)
Beaver (39)
Beaver Falls (39)
Bellefonte (42)
Bloomsburg (42)
Boothwyn (75)
Bradford (39)
Bristol (78)
Brockway (39)
Brooksville (39)
Buckstown (74)
Butler (39)
Canadensis (42)
Campbelltown (75)
Carlisle (75)
Cecil (74)
Chambersburg (75)
Chester (78)
Clarion (39)
Clearfield (39)
Coatesville (75)
Collegeville (78)
Conneaut Lake (39)
Connellsville (74)
Conway (39)
Coraopolis (74)•
Corbett (42)
Corry (39)
Cresson (74)
Daleville (42)
Danville (42)

Douglasville (75)
Doylestown (78)
Dubois (89)
Duncansville (74)
Easton (42)
Ebensburg (74)
Edinboro (39)
Elysburg (42)
Erie (39)
Fogelsville (75)
Gettysburg (75)
Gordon (42)
Granville (75)
Greensburg (74)
Greenville (39)
Grove City (39)
Hanover (75)
Harrisburg (75)
Harrison (74)
Hazleton (42)
Hershey (75)
Holmesburg (78)
Hookstown (74)
Hughesville (42)
Huntingdon (74)
Indiana (74)
Johnstown (74)
Johnsville (78)
Kearsarge (39)
Kittanning (39)
Kutztown (75)
Kylertown (39)
Lake Carey (42)
Lancaster (75)
Langhorne (78)
Lansdale (78)
Latrobe (74)
Leechburg (74)
Lehighton (42)
Lewistown (75)
Linesville (39)
Lock Haven (42)
McKeesport (74)•
Marchand (39)
Mars (39)
Matamoras (43)
Meadville (39)
Mercer (39)
Middletown (75)
Milton (42)
Mohrsville (75)
Montgomeryville (78)
Morrisville (78)
Mt. Jewett (39)
Mt. Pleasant (74)
Mt. Pocono (42)
Mt. Union (75)
Myerstown (75)
New Alexandria (74)
New Hanover (75)
New Kingston (75)
Nicholson (42)•
Norristown (78)
North Springfield (39)
Oil City (39)
Olyphant (42)•
Paoli (75)
Philadelphia (78)
Philipsburg (39)
Pine Grove (75)
Pitcairn (74)
Pittsburgh (74)
Pottstown (75)
Pottsville (75)
Punxsutawney (39)
Quakertown (78)
Reading (75)
Ridgeway (39)
Rochester (39)
Salix (74)
Sayre (42)
Scranton (42)
Selinsgrove (42)
Seven Valleys (75)
Slatington (42)
Somerset (74)
State College (42)
Stroudsburg (42)
Summerhill (74)
Sunbury (42)
Tamaqua (42)
Tarentum (74)
Towanda (42)
Tunkhannock (42)
Utahville (39)
Vandergrift (74)
Wallaceton (39)
Warren (39)
Waynesboro (75)
Waynesburg (74)
Wilkes-Barre (42)
Williamsport (42)
Willow Grove (78)
Womelsdorf (75)
York (42,75)
Youngsville (39)
New Castle (39)

RHODE ISLAND

Charlestown (46)
Greene (46)
Newport (46)•
Providence (46)
Quonset Point (46)
Smithfield (46)
Westerly (46)
Woonsocket (46)

SOUTH CAROLINA

Aiken (131)
Allendale (131)
Anderson (107)
Bamberg (131)
Barnwell (131)
Beaufort (131)
Bennettsville (110)
Calhoun Falls (107)
Camden (110)
Charleston (131)
Cheraw (110)
Chesnee (107)•
Chester (110)
Columbia (131)
Darlington (110)
Ellore (131)
Estill (131)
Florence (110)
Georgetown (131)
Greenville (107)
Greenwood (107)
Hartsville (110)
Kershaw (110)
Lancaster (110)
Lane (131)
Laurens (107)
Little Rock (110)•
Manning (131)
Myrtle Beach (131)
North (131)
North Augusta (131)
Orangeburg (131)
Parris Island (131)
Ridgeland (131)
Rock Hills (110)
St. Matthews (131)
Spartanburg (107)
Summerville (131)
Sumter (131)
Timmonsville (110)
Trenton (131)
Walterboro (131)
Wampee (131)

SOUTH DAKOTA

Aberdeen (11)
Belle Fourche (10)•
Brookings (11)
Chamberlain (30)
Custer (27)
Edgemont (27)
Elk Point (30)•
Eureka (11)•
Faulkton (11)
Flandreau (11)
Gregory (30)
Hot Springs (27)
Huron (11)
Lemmon (10)
Madison (11)
Martin (27)
Miller (11)
Mitchell (30)
Mobridge (10)
Newell (10)
Philip (10)
Pierre (10)
Platte (30)
Rapid City (10)
Redfield (11)•
Reliance (30)
Sioux Falls (30)
Spearfish (10)
Stevens City (30)
Vermillion (30)
Wagner (30)
Watertown (11)
Willow Lake (11)
Winner (30)
Yankton (30)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page.

TENNESSEE

Chattanooga (106)
Clarksville (103)
Cookeville (106)
Cowan (106)
Crossville (106)
Cuba (103)
Dyersburg (103)
Fairview (106)
Fisherville (103)
Gallatin (106)
Graham (103)
Green Brier (106)
Humboldt (103)
Jacks Creek (103)
Jackson (103)
Kingston (106)
Knoxville (107)
Lebanon (106)
McMinnville (106)*
Manchester (106)
Martin (103)
Memphis (103)
Milan (103)
Morristown (107)
Mount Pleasant (103)
Murfreesboro (106)
Nashville (106)
Piedmont (107)
Pulaski (106)
Smithville (106)
Tallassee (107)
Tri-City (107)
Tullahoma (106)
Union City (103)
Walterhill (106)
Whiteville (103)

TEXAS

Abernathy (91)
Abilene (94)
Alpine (59)
Alvin (114)
Amity (94)
Alice (114)
Alpine (87)
Amarillo (59)
Anahuac (118)
Anson (94)
Arcola (118)
Arlie (94)
Arlington (98)
Ashterton (118)
Austin (118)
Axtell (114)
Baird (94)
Ballinger (118)
Bandera (118)
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Beeville (114)
Bolton (118)
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Bonham (95)
Borger (59)
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Brachettville (118)
Brady (115)
Breckenridge (94)
Brownfield (91)
Brownsville (114)
Brownwood (115)
Bryan (118)
Burkburnett (94)
Burnett (115)
Cameron (118)*
Canadian (59)
Candelaria (87)*
Canyon (59)
Carrizo Springs (115)
Carthage (118)
Castelon (87)*
Centreville (118)*
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Cisco (94)
Clarendon (94)
Clarksville (99)
Claude (59)
Cleburne (118)
Coleman (118)
College Station (118)
Colorado City (91)
Comanche (115)*
Commerce (95)
Conroe (118)
Corpus Christi (114)
Corsicana (118)
Crane (91)
Crover (59)
Crystal City (114)
Cuero (118,118)
Cypress (118)
Dalhart (59)
Dallas (98)
Damon (118)
Delaware Springs (90)
Del Rio (87)
Denison (95)
Denton (96)
Dimmitt (59)
Dolores (114)*
Dryden (87)
Dublin (115)
Dumas (59)
Duncanville (98)
Eagle Pass (114)
Eastland (94)
Eden (115)
Edinburg (114)
Edna (114)
El Campo (118)
Eldorado (91)
Electra (94)
El Paso (87)
Elsa (114)
Ennis (118)
Falfurrias (114)
Floydada (59)
Forney (95)
Fort Hancock (90)*
Fort McKavett (115)
Ft. Stockton (91)
Fort Worth (98)
Freeport (114)
Freer (114)*
Friona (59)
Gainesville (96)
Galveston (118)
Garland (98)
Gatesville (118)
Georgetown (118)
Gilmer (99)*
Gladewater (99)
Gonzales (118)
Goose Creek (118)
Gorman (115)
Granbury (96)
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Gregory (114)
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Hudspeth (90)
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Huntsville (118)
Idalou (91)
Iraan (91)*
Jacksonville (118)
Joshua (95)
Karnack (99)
Kaufman (98)
Kenedy (114)
Kent (90)
Kermit (91)
Kerrick (59)
Kerrville (115)
Kilgore (99)
Killeen (118)
Kingsville (114)
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LaPorte (119)*
Laredo (114)
Leaday (115)
Levelland (91)*
Littlefield (91)
Llano (115)
Longfellow (87)*
Longview (99)
Los Fresnos (114)
Louise (118)
Lubbock (91)
Lufkin (119)
Luling (118)
McAllen (114)
McCamey (91)
McKinney (98)
Madisonville (118)*
Magnolia Beach (114)
Marathon (87)
Maria (87)
Marlin (118)
Marshall (99)
Mason (115)*
Matagorda Island (114)
Matagorda Pensinsula(114)
Mathias (114)*
Mercedes (114)
Mexia (118)
Midland (91)
Mineola (99)
Mineral Wells (95)
Mission (114)
Monahans (91)
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Muleshoe (59)
Muenster (98)
Nacogdoches (119)
Navosta (118)
Newark (98)
New Braunfels (115,142)
Odessa (91)
Old Ocean (114)
Olney (94)
Orange (119)
Orla (90)
Ozona (91)
Paducah (94)
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Palestine (118)
Pampa (94)
Paris (99)
Parker (118)
Pawnee (114)
Pecos (90)
Perryton (59)
Plainview (59)
Pleasanton (114)
Port Arthur (119)
Portland (114)
Port Lavaca (114)
Poteet (114)
Prairie Hill (118)
Presidio (87)*
Pyote (91)
Quanah (94)
Ranger (94)
Raymondville (114)
Red Bluff (90)
Refugio (114)
Rita Santa (91)*
Roaring Springs (91)
Rockport (114)
Rock Springs (115)*
Salt Flat (90)
San Angelo (91,115)
San Antonio (142)
San Benito (114)
Sanderson (87)*
San Marcos (115)
Sayers (142)
Schulenburg (118)
Seguin (115)
Seymour (94)
Sherman (95)
Sierra Blanca (90)*
Simms (99)
Sinton (114)
Soncy (59)
Spearman (59)
Spring Branch (115)
Spur (91,94)
Stamford (94)
Stanton (91)
Stephenville (115)
Sulphur Springs (95)
Sweetwater (94)
Taft (114)
Taylor (118)
Teague (118)
Temple (118)
Terlingua (87)*
Terrell (95,98)
Texarkana (99)
Texas City (119)
Texhoma (59)
Tulia (59)
Twitty (94)
Tyler (118)
Uvalde (115)
Van Horn (90)
Valasco (114)
Vernon (94)
Victoria (114)
Waco (118)
Waxahachie (98)
Weatherford (95)
Webster (118)
Wellington (94)
Weslaco (114)*
Westbrook (91)
Wharton (118)
Wichita Falls (94)
Wills Point (95)
Wink (91)
Winters (115)
Wolfe City (95)
Yoakum (118)
Zuehl (115)

UTAH

Beaver (54)
Bountiful (23)
Brigham (23)
Bryce Canyon (52)
Cedar City (54)
Cortland (23)
Delta (23)
Duchesne (23)*
Enterprise (54)
Ephraim (23)*
Fairfield (23)
Fillmore (54)
Goulding (56)
Grantsville (23)
Hanksville (55)
Huntsville (23)
Knolls (23)
Layton (23)
Logan (23)
Low (23)
Lucin (23)
Midvale (23)
Milford (54)
Mt. Pleasant (23)*
Myton (23)*
Nephi (23)
Ogden (23)
Price (23)
Promontory Point (23)
Provo (23)
Richfield (54)
Riverton (23)
Roosevelt (26)
St. George (54)
Salt Lake City (23)
Spanish Fork (23)
Timpie (23)
Toole (23)
Vernal (26)
Wendover (23)

VERMONT

Bennington (43)
Berlin (18)
Bristol (18)
Burlington (18)
Fair Haven (43)
Grande Isle (18)
Huntington (18)
Manchester (43)
Newport (18)
Rutland (43)
St. Johnsbury (18)
Springfield (43)
Swanton (18)
Vergennes (18)
White River Jct. (43)

VIRGINIA

Alberta (111)
Alexandria (78)
Altavista (110)
Annandale (78)
Bedford (110)
Big Stone Gap (107)
Blacksburg (110)
Blackstone (111)
Charlottesville (74)
Chester (75)
Chilhowie (107)
Chincoteague (75)
Clarksville (111)*
Clover (110)
Covington (74)
Creeds (111)
Dahlgren (75)
Danville (110)
Dawn (75)
Deep Creek (111)
Drivers (139)
Eclipse (111)
Emporia (111)
Falls Church (78)
Farmville (111)
Fortress (139)
Franklin (139)
Fredericksburg (75)
Front Royal (74)
Galax (110)
Gordonsville (74)
Greys Point (78)*
Hampton (139)
Harcum (75)*
Harrisonburg (74)
Herndon (76)
Hopewell (111)
Hot Springs (114)
Langley (139)
Lawrenceville (111)
Leesburg (75)
Lexington (74)
Lively (75)
Lynchburg (74)
Manassas (75)
Martinsville (110)
Melfa (75)
Milford (75)
Montvale (74)
Mt. Vernon (78)
Narrows (74)
Norfolk (139)
Oceana (139)
Parksley (78)
Petersburg (111)
Pulaski (110)
Pungo (139)
Quantico (78)
Richlands (107)
Richmond (75)
Roanoke (110)
Staunton (74)
Suffolk (139)
Tappahannock (75)
Virginia Beach (139)
Warrenton (75)
Waverly (139)
Waynesboro (74)
Weirwood (75)
West Point (75)
Williamsburg (111)
Winchester (74)
Windsor (139)
Orange (74)

WASHINGTON

Aberdeen (2)
Almira (3)
Arlington (2)
Bellevue (142)
Bellingham (2)
Blaine (2)
Bothell (2)*
Bremerton (142)
Burlington (2)
Camano Island (2)
Camas (142)
Chehalis (2)
Chelan (3)
Chewelah (3)
Clarkston (3)
Cle Elum (2)
College Place (3)
Colville (3)
Connell (3)
Coulee City (3)
Coulee Dam (3)*
Coupeville (2)
Davenport (3)
Deer Park (3)
Dungeness (2)
Easton (2)
East Sound (2)*
Ellensburg (2)
Enumclaw (142)
Ephrata (3)
Everett (2)
Forks (2)*
Goldendale (2)*
Harrington (3)
Hobart (2)
Ilwaco (2)
Issaquah (142)
Kelso (2)
Kennewick (3)
Kent (142)
Kittitas (2)
La Crosse (3)
Lakeview (2)
Lind (3)
Longview (2)*
Mead (3)
Metaline Falls (3)
Monroe (2)
Moses Lake (3)
Mt. Vernon (2)
Neah Bay (2)
Newport (3)
North Bend (2)
Oak Harbor (2)*
Okanogan (3)
Olympia (2)
Omak (3)
Opportunity (3)
Orchards (142)
Oroville (3)
Pasco (3)
Pateros (3)
Port Angeles (2)
Port Orchard (2)
Port Townsend (2)
Prosser (3)
Pullman (3)
Puyallup (142)
Quillayute (2)
Randle (2)*
Renton (142)
Republic (3)*
Ritzville (3)
Rosalia (3)
Seattle (142)
Shelton (2)
Silverdale (142)
Snohomish (2)
Spanaway (142)
Spokane (3)
Stevenson (2)
Sunnyside (2)
Tacoma (142)
Toledo (2)
Tonasket (3)
Toppenish (2)
Twisp (2)
Vancouver (142)
Walla Walla (3)
Washougal (2)
Washtucna (3)
Wenatchee (2)
Westport (2)*
Whidbey Island (2)
Wilbur (3)
Winthrop (2)
Woodland (2)
Yakima (2)

WEST VIRGINIA

Beckley (71)
Buckhannon (74)
Bunker Hill (74)
Burlington (74)
Charleston (71)
Clarksburg (74)
Elkins (74)
Glendale (74)
Hinton (74)
Logan (71)
Marlinton (74)
Martinsburg (75,74)
Moorefield (74)
Morgantown (74)
Parkersburg (71)
Paynesville (71)
Pence Springs (74)*
Petersburg (74)
Princeton (71)
Ravenswood (71)
Romney (74)
Roncaverte (74)
Spencer (71)
Sutton (74)
Terra Alta (74)
Weston (74)
Wheeling (74)
White Sulphur Spgs.(74)
Williamson (71)
Winfield (71)

WISCONSIN

Amery (14)
Antigo (15)
Appleton (15)
Arbor-Vitae (15)*
Ashland (14)
Baraboo (34)
Beaver Dam (34)
Black River Falls (14)
Bloomer (14)
Boulder Junction (15)
Boyceville (14)
Brodhead (34)
Camp Douglas (31)
Camp McCoy (31)
Cedarburg (34)
Chetek (14)
Chippewa Falls (14)
Clintonville (15)
Colby (14)
Dallas (14)
Darlington (31)
Durand (14)
Eagle River (15)*
Eau Claire (14)
Elkhorn (34)
Fifield (14,34,15)*
Fond du Lac (34,15)
Genesee (34)
Green Bay (15)
Hayward (14)
Hudson (14)
Janesville (34)
Jefferson (34)
Kenosha (34)
Kohler (34)
La Crosse (31)
Ladysmith (14)
Lake Delton (34)
Land O'Lakes (15)
Lone Rock (31)
Madison (34)
Manitowoc (15)
Manitowish (15)
Marcy (34)
Marshfield (14)
Medford (14)
Menominie (14)
Merrill (15)*
Milwaukee (34)
Monroe (34)
Neenah (15)
Neillsville (14)
Oconto Falls (15)
Omro (15)
Oshkosh (15)
Phillips (14)
Portage (34)
Racine (34)
Rhinelander (15)
Rice Lake (14)
Richland Center (31)
Shullsburg (31)
Shawano (15)
Sparta (31)
Spooner (14)
Stevens Point (15)
Sturgeon Bay (15)
Sturtevant (34)
Superior (14)
Three Lakes (15)
Tomah (31)
Tomahawk (15)*
Washington Island (15)*
Watertown (34)
Waukesha (34)
Waupaca (15)
Waupun (34)
Wausau (15)
West Bend (34)
Whitewater (34)
Wisconsin Rapids (15)
DePere (15)

WYOMING

Afton (23)
Archer (27)
Basin (7)
Big Piney (23)*
Buffalo (7)
Casper (26)
Cheyenne (27)
Cody (7)
Cokeville (23)
Cowley (7)
Douglas (26)
Dull Center (27)
Egbert (27)
Evanston (23)
Fort Bridger (23)
Gillette (7)
Greybull (7)
Jackson (23)
Kemmerer (23)
Knight (23)
Lander (26)
Laramie (26)
Lusk (27)
Meadows (27)
Medicine Bow (26)
Midwest (26)
New Castle (27)
Pine Bluffs (27)
Pinedale (26)
Point of Rocks (26)
Powell (7)
Rawlins (26)
Riverton (26)
Rock Springs (26)
Sheridan (7)
Silver Crown (26)
Sinclair (26)
Sussex (26)
Thermopolis (26)*
Torrington (27)
Ucross (7)
Wamsutter (26)
Wheatland (27)
Worland (31)*

VII

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted See reverse side of chart for data page.

DIGEST OF AIR TRAFFIC CONTROL PROCEDURES

This digest is prepared especially for the use of pilots operating within control areas, airport approach zones and airport traffic zones. For detailed information, see Civil Aeronautics Administration Manual 60, AAF Regulation 60-16, and pertinent Navy Publications.

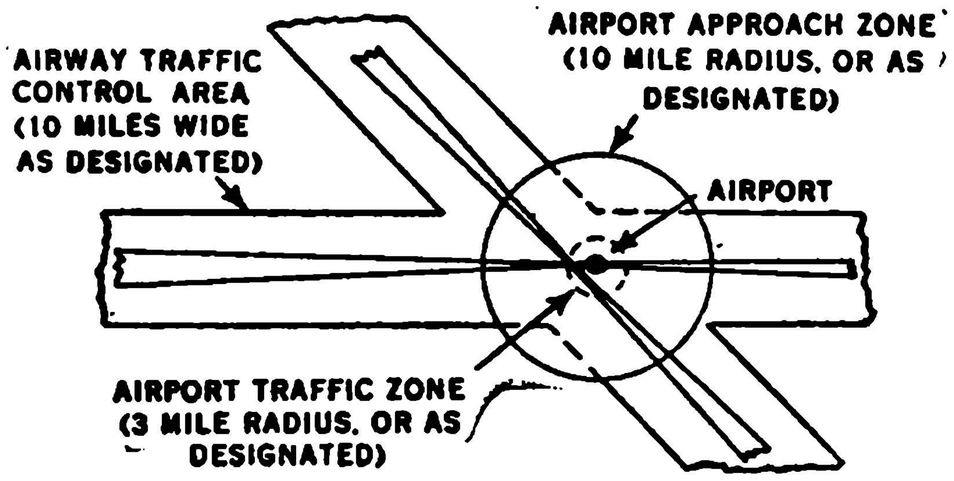
CONTACT FLIGHT RULES WEATHER MINIMUMS

	Inside (Airport Traffic) Zone (3-mile radius)	Inside Control Area (but outside of Airport Traffic Zones).	Elsewhere
Flights at altitudes of more than 700 feet above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	500 feet vertically, 2000 feet horizontally from all clouds - 3 miles visibility (or 1 mile with traffic clearance)	500 feet vertically, 2000 feet horizontally from all clouds - 1 mile visibility
Flights at altitudes of 700 feet or less above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	Clear of clouds * * 1 mile visibility	Clear of clouds * * 1 mile visibility

*If traffic conditions permit, a control tower or control center will issue a traffic clearance when the minimums are less than those specified, but under this provision the flight must remain clear of clouds.

* *In arpt approach zones flights must remain 500 ft vertically and 2000 ft horizontally from all clouds unless a center or tower issues a traffic clearance for flight "clear of clouds".

CONTROLLED AREAS



FLIGHT PROCEDURES AND CONDITIONS

The types of flight plans and conditions under which aircraft may be operated are summarized as follows:

Contact Flight Rule (CFR) - Aircraft must be flown in weather conditions equal to or better than those outlined in the weather minima chart without benefit of reductions authorized by a traffic clearance. No flight plan or communication contacts are necessary other than as required by an airport traffic control tower for regulation of local airport traffic.

Contact Flight Rule - Controlled - Aircraft may be operated in weather conditions lower than the basic weather minima within control areas, airport approach zones, and airport traffic zones, providing the pilot files flight plan specifying the route to be flown with an airway traffic control center or airport traffic control tower, he receives a traffic clearance and he complies with all conditions stipulated in the clearance. Communication contacts and position reports may be required by Air Traffic Control for this type of flight, as traffic control separation will be afforded aircraft on the same basis as aircraft operating on an IFR flight plan.

Instrument Flight Rule - (IFR) - Pilots proposing to operate aircraft in accordance with instrument flight rules are required to: file a complete flight plan with an airway traffic control center or airport traffic control tower and obtain a traffic clearance from the center or tower prior to flight; maintain continuous listening watch on the appropriate radio frequency, and report by radio the time and altitude of passing each designated reporting point. When an aircraft on an IFR flight plan is operating in weather conditions lower than the basic CFR minima, a minimum altitude of 1000 feet above the surface must be maintained. A traffic clearance specifying that a portion of a flight is to be conducted in accordance with contact flight rules (CFR) will require that the pilot maintain, without reduction, the basic contact flight rule minima as specified in CAR 60 and assume the responsibility of avoiding other aircraft during the portion of the flight specified. In the event of two-way radio failure, a pilot may (1) proceed according to current flight plan, maintaining the minimum safe altitude or the last acknowledged assigned altitude, whichever is higher, to the range station from which approach will be started to the airport of intended landing, and commence descent at approach time last authorized; or if such time has not been received and acknowledged, commence descent at the time of arrival specified in the flight plan; or (2) if weather conditions permit, proceed in accordance with CFR; or (3) land as soon as practicable. Normally, if the aircraft is operating in contact flight rule weather conditions at the time the radio failure is discovered, the pilot should proceed in accordance with contact flight rules to the airport of first intended landing or to the nearest suitable airport. If this is not possible, the pilot will proceed according to current flight plan. In order that uniform flight levels will be maintained by all aircraft, the altimeter should always be set to the altimeter setting of the nearest reporting station as the flight proceeds. The altimeter setting is issued by the Weather Bureau and, when placed on the barometric scale of the altimeter, will result in a reading of the elevation above sea level on the height scale of the instrument.

Note: A flight plan is required on all AAF flights except for local flights within a defined local flying area.

Arrival reports - It should be noted that whenever a flight plan has been filed, whether for CFR or IFR operation, an arrival report is required, unless the pilot has stated in the flight plan that such report will not be filed.

Maintenance of Flight Altitudes - Within control areas, aircraft should be flown at even or odd thousand-foot levels above sea level depending upon the direction of flight as indicated by odd or even minimum altitudes shown in Air Navigation Radio Aids (airway and radio facility charts), unless other altitudes are assigned and approved by an airway traffic control center.

Cruising altitudes outside of control areas or approach zones shall correspond to the direction of flight as indicated below:

MAG Heading	Indicated Altitude (feet above sea level)
0° - 89° inclusive,	Odd thousands: 1,000; 3,000; etc.
90° - 179° inclusive,	Odd thousands plus 500 feet: 1,500; 3,500; etc.
180° - 269° inclusive,	Even thousands: 2,000; 4,000; etc.
270° - 359° inclusive,	Even thousands plus 500 feet: 2,500; 4,500; etc.

AIRPORT TRAFFIC CONTROL PROCEDURES

Aircraft with Two-way Radio: If operating under contact flight rules, arriving aircraft should establish communication with the control tower when approximately 15 miles from the airport of destination. The tower will issue such instructions as are necessary. Pilots should remain tuned to the tower until the landing is completed and the aircraft parked. If on an instrument flight plan, arriving aircraft should remain on range frequency as long as required for navigational purposes. The control tower should not be contacted until after a clearance "to the tower" has been received and the aircraft is 15 miles or less from the airport and clear of clouds, unless otherwise instructed. The clearance, "Cleared to Blank Tower", is also approval for approach subject to any restrictions or instructions contained in the clearance. This clearance, without any restrictions, is approval to make approach for a landing using whatever type of approach desired by the pilot.

Aircraft with Receiver Only: Remain tuned to the tower at all times when within the airport traffic zone. Acknowledge signals in the daytime by movement of ailerons or rudder on the ground and by rocking wings in the air, and at night by flashing landing light. Clearance from the tower should be received for taxying, landing and taking-off; however, sufficient movement of the aircraft to attract the attention of the tower is permitted. If tower does not issue radio instructions, watch for light signals as the tower may not realize that the aircraft is equipped with a receiver.

Aircraft without Radio Equipment: Observe the tower for light signals, and acknowledge as above. The light signals are:

VISUAL SIGNALS FROM PORTABLE TRAFFIC SIGNAL LIGHT

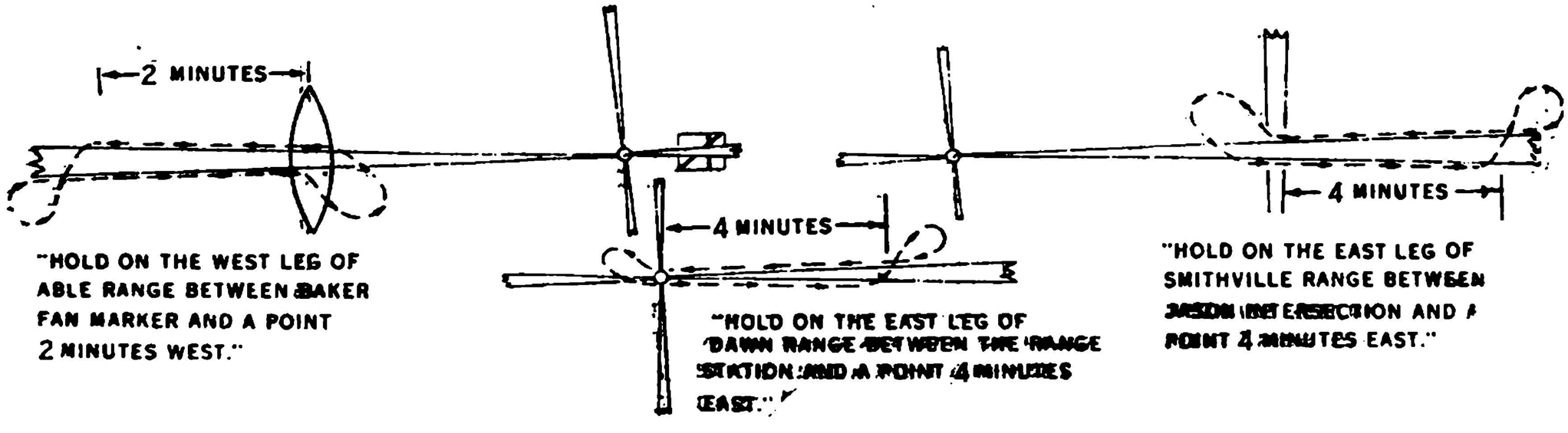
Color and Type of Signal	Taxi-ing	Ready for Take-off	In Flight
STEADY GREEN	XXXXXXX	Cleared for take-off	Cleared to land
FLASHING GREEN	Continue Taxi-ing	XXXXXXXXXXX	XXXXXXXXXXXXXXX
STEADY RED	Stop	Clear the Runway Immediately, and Wait	Give Way to Other Aircraft and Continue Circling
FLASHING RED	Return to Hangar Line	Return to Hangar Line	Return and land
ALTERNATING RED AND GREEN	General Warning Signal—Exercise Extreme Caution		

Traffic and Taxi Patterns have been established at busy airports to illustrate the desired flow of aircraft on the ground and in the air under specified wind conditions. If the traffic pattern is not known, follow other aircraft unless otherwise instructed.

If a pilot does not receive either radio or visual signal from the tower when approaching for a landing, he should make at least one complete circle of the airport conforming to the traffic pattern, and then start approach for a landing. The pilot should be on the alert for a signal from the tower and maintain a watch for other aircraft.

HOLDING PROCEDURES FOLLOWED BY AIRCRAFT AT RADIO FIXES

The standard holding flight path of an aircraft operating on an instrument flight rule flight plan and being held at a radio fix is to follow the right edge of the on-course signal of the specified leg of the appropriate radio range. The aircraft shall hold between the designated holding point and a point 4 minutes' flying time therefrom in the direction specified, starting procedure turns at the holding point and a point 4 minutes therefrom. Unless prevented by obstructions or unless otherwise advised by an Airway Traffic Control Center or Civil Aeronautics Administration Airport Traffic Control Tower, the initial turn of a procedure turn shall be made to the left when flying away from the range station and to the right when flying toward the range station. The point to be used as the designated holding point will be identified in the traffic clearance which contains instructions for the aircraft to hold. When holding at an approach control marker, the holding flight path will extend from the specified holding point to a point not to exceed 2 minutes' flying time therefrom in the direction specified. When instructions are received giving the time of departure from the holding point, the pilot may adjust his flight path so as to be able to depart from the marker at the exact time specified.



X

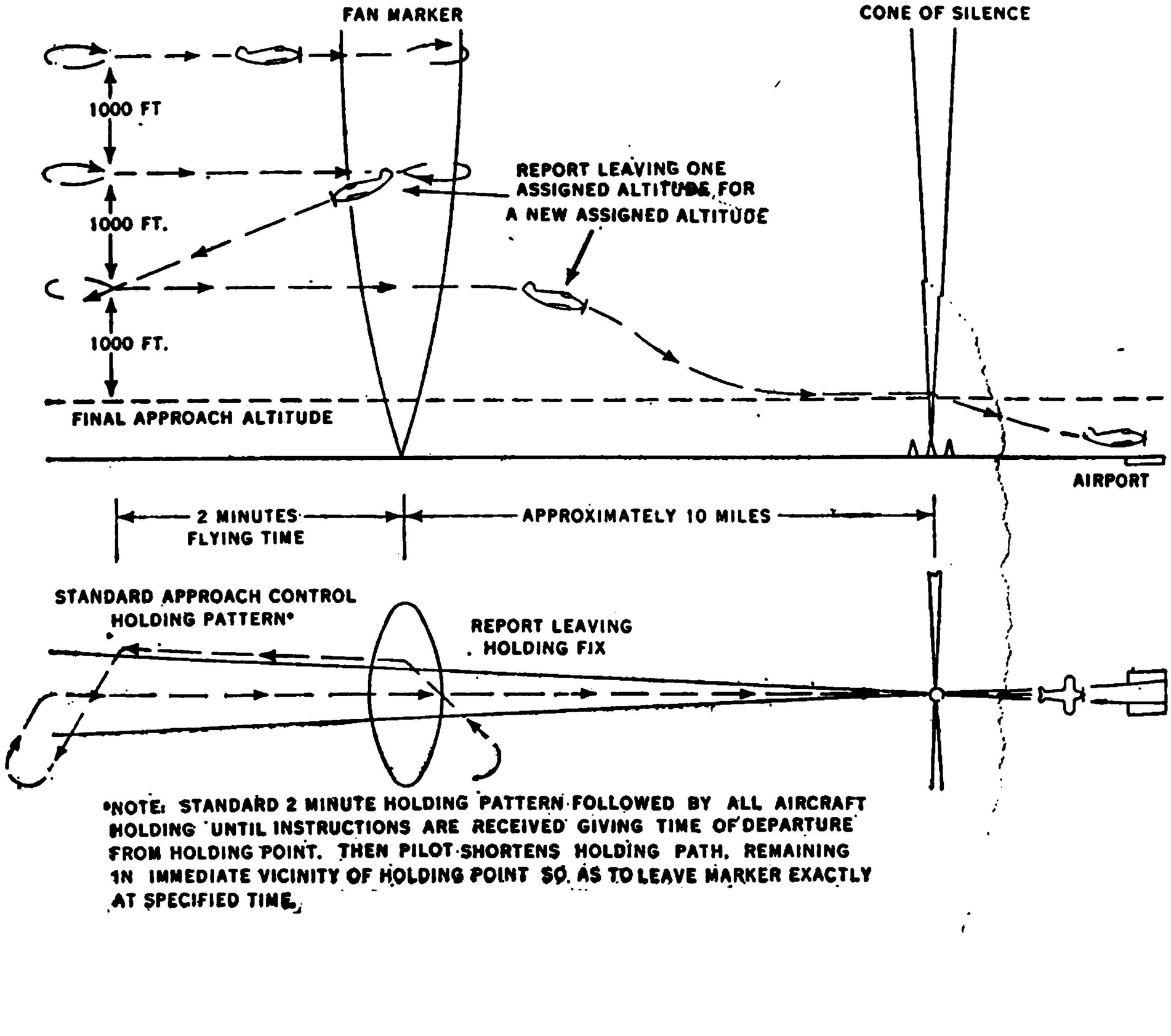
HANDLING OF CFR FLIGHT PLANS, AND ARRIVAL REPORTS

CFR flight plans may be filed with any CAA airways communication station or airway traffic control center. These flight plans are not transmitted to the point of destination but are held in suspense until notice of arrival is received. One hour after the estimated time of arrival, if no notice of arrival is received, queries are sent out over CAA communication systems to determine the location of the aircraft. If the arrival report is not received within three hours, search and rescue operations are initiated. Inasmuch as the Government may be put to considerable expense in determining the location of aircraft when an arrival report is not filed, it is vitally necessary that all pilots using this service make certain that notice of arrival is filed with the CAA communications station at the termination of the flight. Arrival reports are transmitted over CAA circuits to the station holding the flight plan.

In order to reduce radio congestion, pilots should file CFR flight plans, when required, in person or by telephoning the airways communication station or airway traffic control center. CAA control towers have discontinued accepting CFR flight plans for transmission and will not normally file arrival reports except upon the specific request of the pilot. Whenever practicable, however, it is desired that arrival reports be filed in the same manner as flight plans.

APPROACH CONTROL PROCEDURES

Approach control is a service whereby Civil Aeronautics Administration airport traffic control towers issue control instructions in instrument weather conditions, by communicating directly with pilots over the voice feature of a radio range, or over a very-high frequency channel of the control tower. Ordinarily, aircraft will be cleared by the airway traffic control center to the holding fix, (fan marker or other radio fix) with appropriate holding instructions. Instructions to hold "UNTIL FURTHER ADVISED BY (Name of) APPROACH CONTROL ON (Blank) KILOCYCLES" are included by the airway traffic control center so that the pilot will know on which frequency he will receive further instructions from the tower. When he arrives over the holding point, the pilot initiates a call to "(Name of) APPROACH CONTROL" and advises time and altitude over the holding point, listening on the frequency specified in the ATC clearance for further instructions. Radio contacts required thereafter: (a) when vacating any previously assigned flight level for a newly assigned level; (b) when leaving holding point. Each pilot in an approach sequence will be given advance notice as to the time he should leave the holding marker on approach to the airport. When the time of leaving the holding point has been received, the pilot should shorten the standard holding path remaining in the immediate vicinity of the marker so as to leave the marker as closely as possible to the designated time. Pilots should maintain communication by listening to approach control frequency until cleared to the tower's local control frequency (278 kc. or equivalent). Departing aircraft will receive initial instructions on the tower's local control frequency. Approach Control is established at locations indicated in "Air Navigation Radio Aids".



AIR NAVIGATION RADIO AIDS

LEGEND

(3) - Station guards 3105,4495,6210 kcs.
(4) - Station guards 3105,4495,6210,3117.5 kcs.
ILS - Instrument Landing System.
(7-24)- Hours of operation (7 a.m. to midnight) on a 24-hour clock basis.

➘ Indicates a new facility, out of alphabetical order. Refer to bottom of column for new radio facility coverage.

RADIO CLASS DESIGNATIONS

AC . . Approach Control Tower, CAA
B . . . Scheduled Broadcast Station (broadcasts weather reports at 15 and 45 minutes after the hour)
C . . . Control Tower, CAA
CA . . Control Tower, Army
CI . . Control Tower (City,County,Private, etc.)
CN . . Control Tower, Navy
D . . . Distantly controlled
FM . . VHF fan type marker (100 watts)
FMK . Compass locator station when combined with fan marker
GCA . Ground control approach system
H . . . Non-directional radio-beacon (homing), power 50 watts or more
ILS . . Instrument Landing System
IM . . VHF boundary marker
K . . . Independent compass locator station
LFM . VHF fan type marker, low powered (5 watts not over 10 miles from range)
MH . . Non-directional radio-beacon (homing), power less than 50 watts
ML . . Range (loop radiators), power less than 50 watts
MMK . Compass locator station when combined with middle marker of Instrument Landing System
MRA . Range (adcock,vertical radiators), power more than 50, less than 150 watts
MRL . Range (loop radiators), power more than 50, less than 150 watts
OM . . VHF outer marker
OMK . Compass locator station when combined with outer marker of Instrument Landing System
P . . . Point to point radio
RA . . Range (adcock, vertical radiators), power 150 watts or more
RL . . Range (loop radiators), power 150 watts or more
S . . . Simultaneous transmission of range signals and voice
T . . . Teletype
TX . . Principal teletype
V . . . Voice communication with aircraft
VAR . Visual-aural VHF range
W . . . Without voice facilities
Z . . . VHF station location marker at a range station

N.B.-Variation is computed at the station. The distance from station to field is computed from the center of the range station to the nearest edge of the usable area of the airport. The bearing is that from the range station to airport or fan marker.

RADIOTELEGRAPH CODE

A ·—	D —··	G ——·	J ·———	M ——	P ·——·	S ···	V ···—	Y —·——
B —···	E ·	H ····	K —·—	N —·	Q ——·—	T —	W ·——	Z ——··
C —·—·	F ··—·	I ··	L ·—··	O ———	R ·—·	U ··—	X —··—	

AIRWAY RADIO COMMUNICATIONS

GENERAL

All radio range stations (class RA, RL, MRA, MRL, ML) emit directional signals (type A2 emission) 1020 cycles per second modulation. All radiobeacon stations (class H and MH) emit non-directional signals (type A2 emission) 1020 cycles per second modulation. Unless otherwise noted, all stations, other than class MH, operate continuously within their assigned hours of service except during interruptions for voice transmission on the same frequencies where simultaneous transmission is not available and during shutdowns for maintenance purposes. Class MH stations operate on request unless otherwise cited. The effective range of an MH facility is ordinarily 25 miles. Voice communications facilities are available unless "W" (without voice) is included in the classification. Examples: SMRAW, MRLW, HW, HWT. Transmission of voice on a frequency other than the range frequency is indicated as MRLW-V. When no "W" is included in station class the "V" indicates voice feature on two frequencies, namely, range frequency and, generally, V.H.F. of 116.1 mcs. The classification designation "B" denotes that the station broadcasts airway and meteorological information on a scheduled basis at 15 and 45 minutes past each hour.

All Civil Aeronautics Administration stations equipped for voice communications with aircraft stand continuous listening watches on the frequencies of 3105,4495,3117.5, and 6210 kcs., unless otherwise cited.

AUTOMATIC RANGE MONITORING SYSTEM

The automatic range monitoring system will automatically notify all pilots using a range on which it is installed, whenever an abnormal condition exists on the final approach course, the only course monitored at the present time.

The notification, or warning signal, will consist of the slow transmission of one group of three "U"s (. . - . . - . . -), between two station identification transmissions. This warning signal will be transmitted: (a) whenever a course displacement of 3° or more exists; (b) whenever a sudden and large loss of signal strength occurs; (c) or whenever an apparent on-course signal (loss of N-A keying, producing a monotone which sounds like an on-course signal) exists throughout all quadrants.

Loss of signal strength is obvious, and loss of N-A keying is easily ascertainable by the pilot whenever the three "U"s identify an abnormal condition. The flier should suspect course displacement, upon hearing the warning signal, if there has been no drop in range signal strength, and the interlocked N and A on-course signal is well defined. On the other hand, the loss of N-A keying is indicated by warning transmission once only, when normal identifications are also missing.

In the case of range course displacement, the greater the course displacement, the earlier in the period between station identification transmissions will the "UUU" signal be heard. An occasional warning signal transmission not repeated in every cycle, followed by the normal identification, may be disregarded since it may be occasioned simply by momentary power fluctuations.

N.B. THE AIR NAVIGATION RADIO AIDS PORTION OF THIS PUBLICATION LISTS ONLY THOSE DATA RECEIVED PRIOR TO THE FRIDAY NOON PRECEDING THE TUESDAY PUBLICATION DATE. REFER TO THE CHARTS OR NOTICES TO AIRMEN FOR LATER DATA.

U. S. WEATHER BROADCASTS AND TRANSMISSIONS

All continuously operated CAA Radio Range and Radio Beacon Stations having voice facilities on the Range or Radio Beacon Frequencies broadcast weather reports at 15 and 45 minutes past each hour.

At each station the material broadcast consists of the local weather report and the latest available surface weather reports from surrounding locations. Reports more than one hour old are not broadcast.

FILING OF "OVER" REPORTS

It has been noted that a number of pilots engaged in point-to-point flights now file "over" reports with airport traffic control towers instead of with airway communications stations at the same locations. Since the communications stations often have traffic clearances and advisory information pertaining to the conditions along the route of flight which are intended for delivery to the pilot upon his reporting over the station or fix, a delay in the delivery of this information may result when the "over" reports are not made to the communications station. Pilots are urged, as far as possible, to file "over" reports with the appropriate airways communications station in order to realize the maximum benefit of this service. In other words, use the call "Radio" instead of "Tower", and listen for a reply on the range frequency. Every effort should be made to file "over" reports when passing over those points designated as "Radio Fixes" on the Radio Facilities Charts. Refer to Chart Legend.

(a) Pilots of aircraft operating on contact flight rule flight plans who desire to make flight progress reports shall include in the report the phrase "CFR flight plan from _____ to _____".

(b) Pilots of aircraft operating on instrument flight rule flight plans and who are required, therefore, to make flight progress reports, shall include in the report the phrase "Instrument flight plan". NOTE: The word "instrument", rather than the abbreviation "IFR" is used in (b) above to avoid confusion between the abbreviations "CFR" and "IFR" under difficult radio reception conditions.

VHF RADIO RANGES

Simultaneous Visual-Aural VHF Radio Ranges have two visual and two aural courses with simultaneous voice transmission on the range frequency. A range of this type operates in the band 112 to 118 MC. (Certain stations have been temporarily assigned the following frequencies: 108.3 mc, 108.7 mc, 109.1 mc.) Modulation frequencies of 90 cps and 150 cps are used to produce the visual courses. The sector in which the 90-cps modulation predominates is to be known as the "Yellow Sector" and that in which the 150-cps modulation predominates is to be known as the "Blue Sector." The aural courses are produced through the use of "N" and "A" signals with modulation frequency of 1020 cps.

VHF RADIO RANGE ORIENTATION: The assignment of the blue and yellow sectors and the "A" and "N" sectors of C.A.A. VHF radio ranges is accomplished in accordance with the following rules:

(a) On Green and Red Airways, the blue sector lies north of the visual course, the yellow south, the "N" sector lies to the east of the aural course; the "A" west.

(b) On Amber and Blue Airways, the blue sector lies west of the visual course, the yellow east; the "N" sector lies to the north of the aural course, the "A" south.

(c) The visual courses are projected along the airway, the aural courses across the airway.

RADIOTELEGRAPH CALLING PROCEDURE

Radiotelegraph (A2 emission), in addition to radiotelephone (A3 emission), may be used to call Civil Aeronautics Administration airway communications stations Radiotelegraph (A1 emission) may be used, but its use will require a prearranged schedule since receivers at the stations are set for A2 and A3 emission only The Civil Aeronautics Administration airway communications station will reply on the radio range voice channel except as otherwise provided. When calling Civil Aeronautics Administration airway communications stations, it is desired that the radio call letters of the station be used. However, the station will be on the alert for calls consisting of the radio range identification (listed under "Station Identification"), which may be used after two calls by voice have not been answered by the Civil Aeronautics Administration airway communications station or when unusual circumstances prevail or during emergencies. For example A pilot using the Richmond, Virginia, radio range, who is unable to contact that station by voice, will radiotelegraph the following, using A2 emission: "RW RW RW K". Upon receipt of such a signal, the aircraft communicator at the Richmond radio range station will acknowledge on the voice channel of the radio range as follows: "UNIDENTIFIED AIRCRAFT CALLING RICHMOND RADIO, OVER". The pilot then would resume use of voice for completion of the contact unless conditions require continuance of radio-telegraph. It is important that pilots use this procedure only after two unsuccessful attempts by voice to contact Civil Aeronautics Administration airway communications stations.

RADIOTELEPHONE (CALLING PROCEDURE)

When calling Civil Aeronautics Administration stations (except towers) or Army and Navy radio ranges, utilize the call "RADIO". When calling all airport control towers, be they Army, Navy, CAA, or municipal, utilize the call "TOWER." When calling Army Airways, utilize the call "ARMY AIRWAYS." Examples:

(a) "JACKSONVILLE RADIO THIS IS STINSON 1234"..... When calling a radio range
(b) "JACKSONVILLE TOWER THIS IS WACO 4567"..... When calling a control tower
(c) "JACKSONVILLE ARMY AIRWAYS THIS IS ARMY 725"..... When calling an Army Airways Communications Station
(a) "LANGLEY ARMY RADIO THIS IS ARMY 472" ..... When calling an Army radio range

COMBINED UNITED STATES-BRITISH RADIOTELEPHONE (R/T PROCEDURE)

This new procedure has previously been adopted by the War and Navy Departments for use by military aircraft and became effective June 1, 1943, for use by Civil Aeronautics Administration airway communications stations and airport traffic control towers and civilian aircraft. Military pilots may secure complete information from Army publication FM 24-9. The major changes in procedure are summarized below for the benefit of civilian pilots not having access to FM 24-9.

1. Use of the words "THIS IS," instead of the word "FROM."
2. Use of the word "OVER," instead of the words "GO AHEAD," to indicate, "MY TRANSMISSION IS ENDED AND I EXPECT A RESPONSE FROM YOU."
3. Use of the word "OUT" when conversation is ended and no response is expected.
4. Use of the phrase "SAY AGAIN," instead of the word "REPEAT," when requesting a repetition.
5. Use of the phrase "I SAY AGAIN," instead of the phrase "I WILL REPEAT," when a repetition is being given.

Examples: WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER MESSAGE FOR YOU (Optional) OVER.

CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE SEND YOUR MESSAGE (Optional) OVER.

WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER (message) OVER.

CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE ROGER OUT.

Pertinent parts of all current publications, including Manual 60, are superseded insofar as communications procedures are concerned, by the new procedure indicated above effective June 1, 1943.

INSTRUMENT LANDING SYSTEMS

An Instrument Landing System comprises a localizer (possibly a glide path), and a boundary, middle, and outer marker. Infrequently, the middle or boundary marker is not commissioned at present and future installations will have no boundary markers. The entire system of transmitters (localizer, glide path, and markers) operates on V.H.F. All markers operate on 75 megacycles.

Compass locator stations, on the other hand, operate on the low frequency 200-400 kilocycle band. Compass locator data will be found under marker data on the second line of those stations having such facilities. These are, with rare exceptions, located at the same sites as the V.H.F. markers, and have single letter identifications.

The localizer course of the Instrument Landing System divides the blue sector (150 cycles), which is to the right of the course in respect to the landing aircraft on final approach, from the yellow sector (90 cycles), which is to the left.

DIRECTORY OF AIRPORTS

LEGEND

NAME

(When city and airport names are identical, the airport name is omitted in the interest of space-conservation)

(A) Airport owned or leased in whole or in part by Army
(N) Airport owned or leased in whole or in part by Navy
★ CAA Intermediate Field
(P) Non-military airport available for use by military aircraft (See note 3)

⊕ Seaplane Base: repairs, fuel, marine railway, ramp, etc.
⚓ Seaplane Anchorage: approved landing area with limited servicing.

If the airport name is followed by an (A) for Army or (N) for Navy, the field is exclusively an Army or Navy field. If the field is not exclusively Army or Navy and may be used by civilians, no (A) or (N) follows the airport name.

SIZE — CLASS

4ℓ: Length of longest landing strip (unpaved) in hundreds of feet
4h: Length of longest hard-surfaced runway in hundreds of feet (Seaplane landing areas over 5 miles in length are classified as unlimited and indicated as "unl.").

N.B. Only the length of the longest runway is cited, and its direction is not indicated. Space restrictions occasioned this policy, but logic justified it. The logical assumption may be made that runways have been laid out in accordance with the local wind rose. Therefore, in all calms, or gentle-ranging winds, or winds aligned with the longest runway, the longest runway will be used. When a wind not aligned with the longest runway is of such intensity that the longest runway cannot be used, this wind makes the use of runway aligned with the wind, even though much shorter than the longest runway, sufficiently long from a safety viewpoint. Too, prior knowledge that there is, for example, a NW/SE runway is of little value to a pilot if, when he arrives over the field the wind is blowing too strongly from another direction to use that runway. Finally, the larger the number indicating the longest runway length, the greater is the assurance of a sufficient number of runways for all-wind coverage.

RADIO

R1: Voice availability via tower, range (or homing device), or voice station.
R2: Range (or homing device), and tower
R3: Range (or homing device), tower, and instrument landing system.

LIGHTS

L1: Beacon only.
L2: Beacon and boundary.
L3: Beacon, boundary, and obstruction.
L4: Beacon, boundary, obstruction, and flood.
L5: Beacon, boundary, obstruction, flood, and runway contact.
L6: Beacon, boundary, obstruction, flood, runway contact, and instrument approach.

("L" without a numeral indicates incomplete lighting, such as "flood lights only" or "temporary portable runway lighting only". The class always indicates the highest element available but does not necessarily include all intermediate elements).

SERVICING

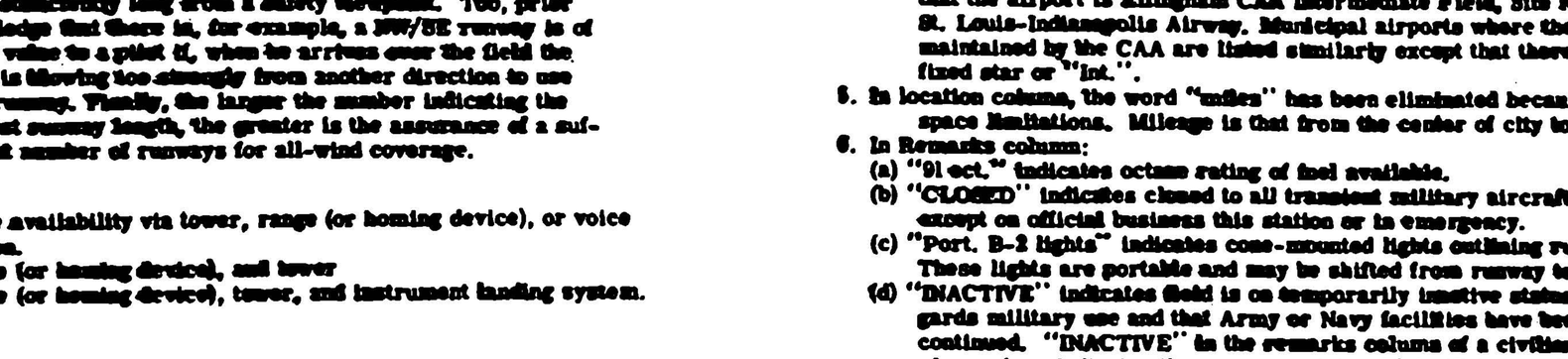
S1: Fuel.
S2: Fuel, storage.
S3: Fuel, storage, minor aircraft repairs.
S4: Fuel, storage, minor aircraft, and minor engine repairs.
S5: Fuel, storage, major aircraft, and minor engine repairs.
S6: Fuel, storage, major aircraft, and major engine repairs.

N. B. Very often small civilian fields (particularly in non-metropolitan areas) will have no full-time attendant. Frequently servicing at such fields in isolated communities is available only by circling the town to attract the operator's attention.
These fields are often recognizable by airport class, comparable to, for example, "1S S1". "1S S1" suggests that the field is not too large, and that the field may not have a full-time attendant even though fuel is stored there.
Lack of radio or lighting facilities, indicated by the absence of an "R" or "L" in the airport class, is a further indication that a full-time attendant may not be available. Absence of an "S" (servicing) indicates definitely that fuel, if available at all, is available only by truck from town. Any field carrying no indication of radio (R), lights (L), or servicing (S) in airport class column should be used with caution, especially a field of the small category. Fields of this nature may be inactive or not maintained, and thus dangerous for use.

NOTES

1. "(NC)" not charted.
2. ↘ indicates space where new airport data received after type has been set up should have been inserted. Refer to bottom of column for new airport coverage.
3. "(P)" in CITY-AIRPORT NAME column indicates (1) those municipal airports improved with public funds and covered by an agreement between the municipality and the United States Government permitting government planes to use such fields in common with others and without charge, to the extent possible without restriction of non-military operations or (2) other civil airports for which legal permits covering their limited use by military aircraft have been procured and filed with the real estate agency of the War Department.
4. ★ "Effingham Int., 10, LS-IL" in CITY-AIRPORT NAME column indicates that the airport is Effingham CAA Intermediate Field, Site 10, on the St. Louis-Indianapolis Airway. Municipal airports where the lights are maintained by the CAA are listed similarly except that there is no prefixed star or "Int.".
5. In location column, the word "miles" has been eliminated because of space limitations. Mileage is that from the center of city to airport.
6. In Remarks column:
   (a) "91 oct." indicates octane rating of fuel available.
   (b) "CLOSED" indicates closed to all transient military aircraft, except on official business this station or in emergency.
   (c) "Port. B-2 lights" indicates cone-mounted lights outlining runways. These lights are portable and may be shifted from runway to runway.
   (d) "INACTIVE" indicates field is on temporarily inactive status as regards military use and that Army or Navy facilities have been discontinued. "INACTIVE" in the remarks column of a civilian airport whose class indicates there are servicing (S) facilities on the field denotes that servicing is available for civilian aircraft only. Use of Army fields in this status is to be as indicated by Special Notice on first page of the Notices to Airmen section, and in notices published under heading of field. Use of Navy fields is indicated under field heading.
   (e) "PRIVATE" indicates field is available for owner only, and not to be used by others except in emergency
   (f) OBSTRUCTIONS: Because of space limitations only the more dangerous obstructions are indicated. Natural obstructions, like trees, clearly discernible for contact operations, are frequently omitted, for example. On the other hand, all pole lines are cited.
   (g) "Fld. lgts on prior req." indicates field light are available only by previous phone call, telegram, or letter. It must be remembered that most fields do not have 24-hour operation. Accordingly, the field lights, indicated for such a lighted field (and, in some instances, even the rotating beacons) are available only by prior request. When an airport classification indicates a lighted field, and there is no notation in the REMARKS column, the field lights burn all night or will be turned on when a radio request is made or a plane circles the field.
   (h) "FEE" indicates landing fee for private aircraft.
6. Airline stop airport names are capitalized.

COLUMNAR EXPLANATION



AIRPORT NAME ABBREVIATIONS

(A)	-	Army Field	(N)	-	Navy Field	LTA	-	Lighter than Air	NAS	-	Naval Air Station
AAB	-	Army Air Base	NAAF	-	Naval Aux. Air Facility	MCAS	-	Marine Corps Air Station	NPG	-	Naval Proving Grounds
AAF	-	Army Air Field	NAAS	-	Naval Aux. Air Station	MCAAF	-	Marine Corps Aux. Air Facility	OLF	-	Outlying Field (Navy)
CGAS	-	Coast Guard Air Station	NAF	-	Naval Air Facility	MCGB	-	Marine Corps Glider Base			

N.B. The Directory of Airports portion of this publication lists only those data received prior to the Friday noon preceding the Tuesday publication date. Refer to the charts or notices to airmen for later data.

FLIGHT PLANNING CHARTS

LEGEND

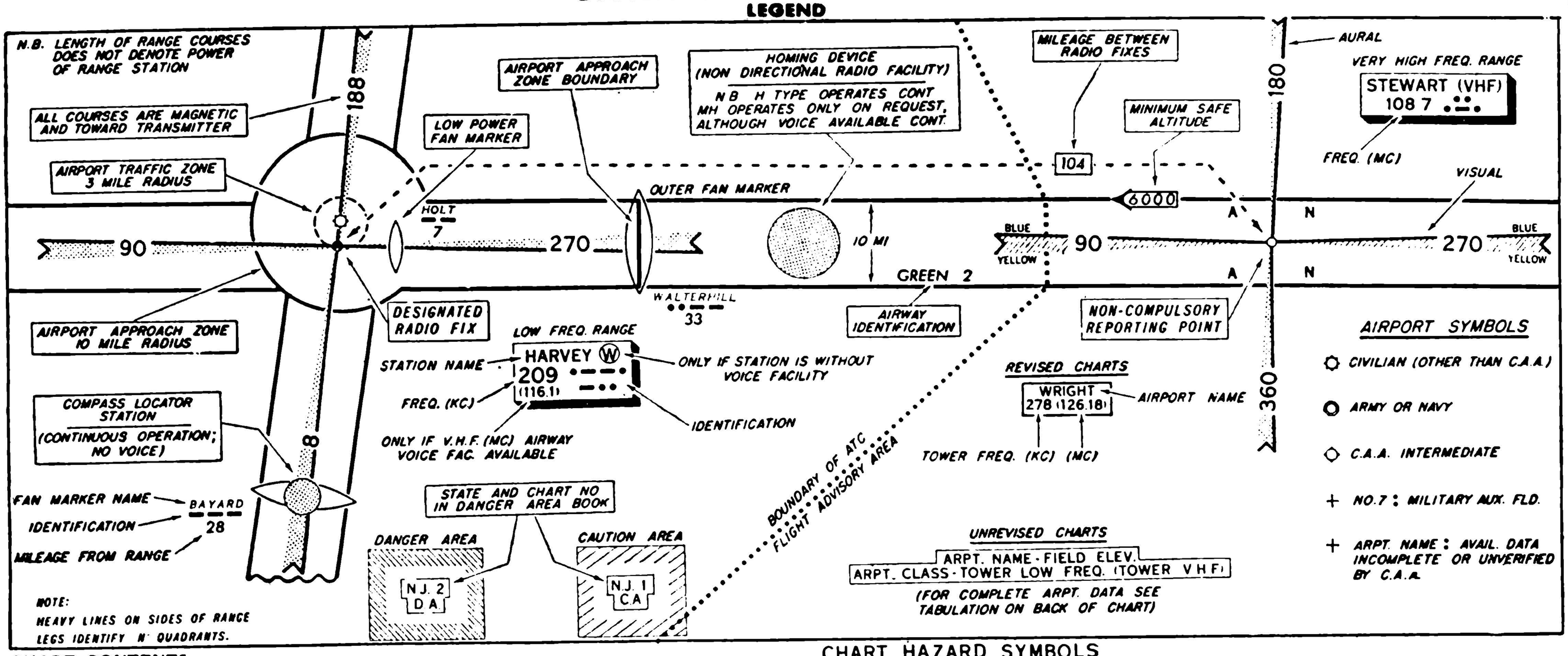


CHART CONTENTS

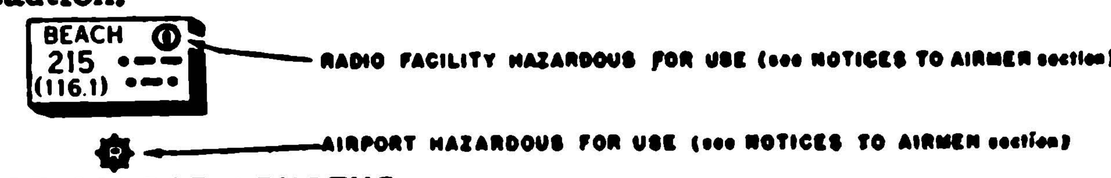
The Flight Planning Charts, in addition to the warning (R) and caution (O) symbols, indicate: (1) all aeronautical radio facilities except air carrier stations; (2) all minimum safe altitudes and fix mileages; (3) all Army and Navy fields and CAA intermediate fields, and all active civilian airports; (4) all danger and caution areas; (5) all designated airways. These charts indicate all facilities, and the current status thereof, on record with the CAA as of 0001 E.S.T. each alternate Tuesday.

CHART PURPOSE & USE

The primary purpose of these charts is to facilitate the planning and execution of cross-country flights. The user should check the charts for the symboled (R) or (O) items between his point of departure and his destination. If there is none, there is no necessity for him to read the Notices to Airmen section as far as temporary items are concerned. As for permanent changes - all major ones, such as new fields, abandoned fields, range frequency changes, etc., are currently reflected on the charts. For record-keeping purposes and for the correction of charts and publications, however, the Notices to Airmen section should be carefully read.

CHART HAZARD SYMBOLS

The current status of facilities and hazards as reported to the CAA is indicated by the symbol system. An airport closed because of construction, an inoperative range, a revised range quadrant identification or range frequency, or course realignment of 20° or more, for example, are indicated by the symbol (R) for red, or warning. An airport under construction but usable, or an inoperative control tower, on the other hand, is indicated by the symbol (O) for orange, or caution.



RANGE COURSE LENGTHS

In general, the length of radio range courses shown herein indicates the approximate location where it is expected that a pilot will tune from one radio range to the next one along his route of flight. Such change-over points, however, are not mandatory, and it is expected that a pilot will use his best judgment in selecting change-over points that will best serve his needs.

Warning

Radio range courses are subject to disturbances that result in multiple courses, and signal fades and surges over rough country. Pilots flying over unfamiliar routes are cautioned to be on the alert to detect these vagaries, particularly over mountainous terrain.

RADIO

OREGON

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAY OCEAN FM (Navy)	(- - - -)	FM, 303°,7.5	Tillamook NAS
EUGENE (Mahlon Sweet)	251 (EU)	SBRAZ-DT,150°,4.5	(4)
PORTLAND (AAB)	332 (PD)	SBRAZ-DT,171°,3.1	(4)
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
REDMOND (Roberts)	368 (RG)	SBRAZ-DT, 101°,4.3	(4)
THE DALLES	230 (ND)	SBRAZ-DT,251°,2.8	(4)
TILLAMOOK (Navy)	520 (NFS)	BMRLZ	3105,4495
Tillamook NAS	278 (142.74)	CN, 123°, 2.5	(3); 142.74 (8-1630)
WILLAMETTE FM	(. . - -)	FM, 76°, 20.6	Portland

WASHINGTON

BELLINGHAM	209 (I I)	SBRAZ-DT,114°,3.3	(4)
CAMANO ISL,FM (Navy)	(- -)	FM,123°, 9	Whidbey Island NAS
DUNGENESS FM	(- - - -)	FM, 296°, 62	Seattle
EASTON (Int.)	278 (TP)	MHT	(4)
ELLENSBURG (Bowers)	385 (EB)	SBMRAZ-DT,270°,2	(4)
EVERETT (Paine)	224 (MI)	BMRLPZ-DT,330°,3.1	(4)
HOBART FM	(- -)	FM, 88°,15	Seattle
KELSO	266 (HP)	MHT	(4)
LAKEVIEW FM	(- - -)	FM, 175°,25.5	Seattle
McCHORD,(Tacoma)(Army)	272 (DTA)	BMRL; 26°, 1.7	
MONROE FM	(-)	FM, 5°, 30	Seattle
MOUNT VERNON OLF	3295 (126.18) (142.74)	CN	3105,4495;126.18,142.74 (days)
NEAH BAY	362 (KQ)	SRAWZ	
PORT ANGELES CGAS	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
SEATTLE (King County)	260 (SA)(116.1)	SBRAZ-VDTX, 296°,3.3	(4);116.1
STEVENSON	347 (LZ)	MHT	(4)
TOLEDO (Int.)	239 (GL)	BMRLZ-DT,236°,3	(4)
WASHOUGAL FM	(-)	FM, 63°,17.5	Portland, Oregon
WHIDBEY ISLAND (Navy)	353 (NUW)	BMRLZ	3105
Whidbey Island NAS	278 (142.74)	CN, 303°,3.5	(3);142.74,126.18.Tr,and gds 116.1,140.48 req.(GCA)
Whidbey Island NAS (Seaplane)	2870 (142.74)	CN	(3),3155;142.74 (24 hrs advance notice)
WOODLAND FM	(- - - -)	FM, 331°,23	Portland, Oregon
YAKIMA	320 (YA)(116.1)	BMRLZ-VDT	(4); 116.1
Yakima County Arpt.	278 (118.5)	C;267°,4.7	(4);118.5,131.9,142.74

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Silverton)	1.2 NW;RR E	210	33	Brush N.
Albany	2.5 NE;RR NW	212	26 S6	73,80 oct.Poles W, SW.
★ Arlington Int,12B,PD-SM	1.4 ENE; riv NW	882	50 L3	
Bend (new)	5.5 ENE;hwy S	3429	34 S6	80 oct.Pwrline SE.Use strips.
Bend (old) (NC)	7.8 N; hwy E	3350	44	Poleline W, NW.
Clatsop Co.(Astoria)	3.5 W;riv E	10	57h	
Coastway School of Aeronautics(Tillamook)	1.4 E;hwy W	55	29 S2	80 oct.
Corvallis	4.9 SSW;RR E	245	52h S6	80,91 oct.
Corvallis Junction	1.3 NNE;RR W	240	20 S1	Ltd 73 oct.
Dallas (new)	1.2 N;RR S	400	23	Poles WSW.
Dallas (old)(NC)	1.6 E;RR S	300	23	UNUSABLE;Under cultivation.
Eugene Airpark	1.6 SW;rd W	420	28 S6	73,80 oct.
Harrisburg	2 NNE; RR E; W	300	25	
Hood River	2.5 S;riv E	605	13	Lgt acft only.
Langmack (Sweet Home)	2 E;hwy N	550	24	Poles W
Lebanon	1.3 SW;RR E	340	20 S2	80 oct.
Madras	2 NNW;RR SE	2420	74h	
MAHLON SWEET(Eugene)	8 NW; RR NE	365	52h R1 L5 S1	91 oct. Svcg week days only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted.

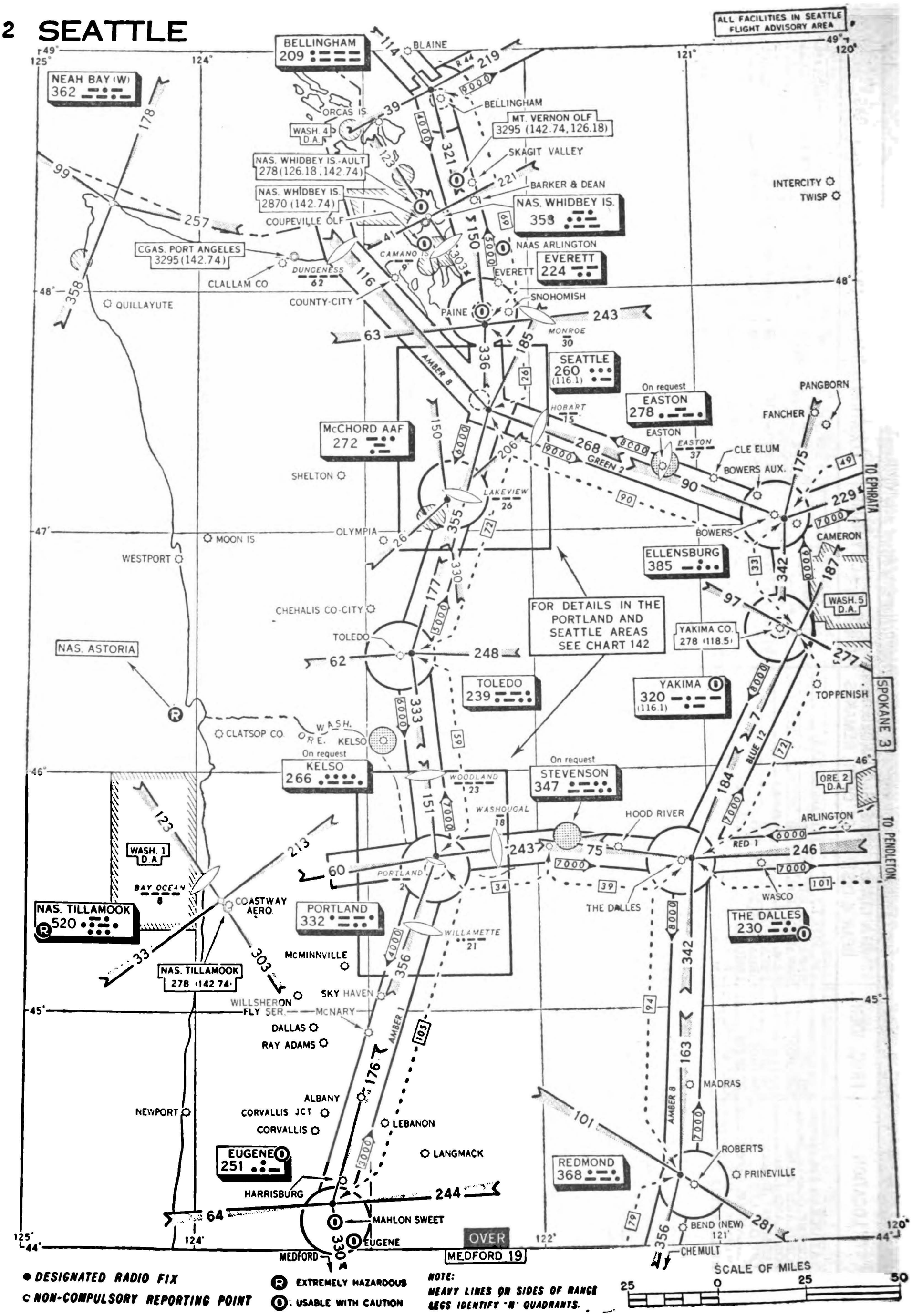
OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
McMinnville	3.1 ESE;hwy W	156	50h S1	Ltd 73,80 oct.
McNARY (Salem)	2.2 SSE;RR SW	207	55h L5 S4	80 oct.;91 oct.emerg.No sto
(P) Newport	4 S;ocean W	160	51h L5 S6	80 oct, No sto.
Prineville	2.9 SW;hwy SW	3240	37 S6	80 oct.
Ray Adams (Monmouth)	2.2 NNW;RR E	195	23 S1	80 oct.Cattle on fld.
(P) Roberts (Redmond)	1.5 SE;hwy N	3064	70h R1 S2	80 oct.
Santiam Junction Flgt Strip (Idanha) (NC)	21.5 SSE;hwys N	4000	30	Trees W,E.
Sky Haven (Brooks)	1.6 NE;RR W	180	17 S1	Ltd 80 oct.
The Dalles	1.7 NE	239	51h R1 L5 S6	80,91 oct.
(N) Tillamook NAS (N)	3 SE; riv N	35	50h R2 L5 S4	91 oct.Used by LTA;HTA.
Vernonia (NC)	2.4 WSW;riv S	620	29	
Wasco	0.4 E;RR SW	1420	18 S1	Ltd 80 oct.
Willsheron(Sheridan)	2.1 SSW;RR NNE	275	15 S1	80 oct.

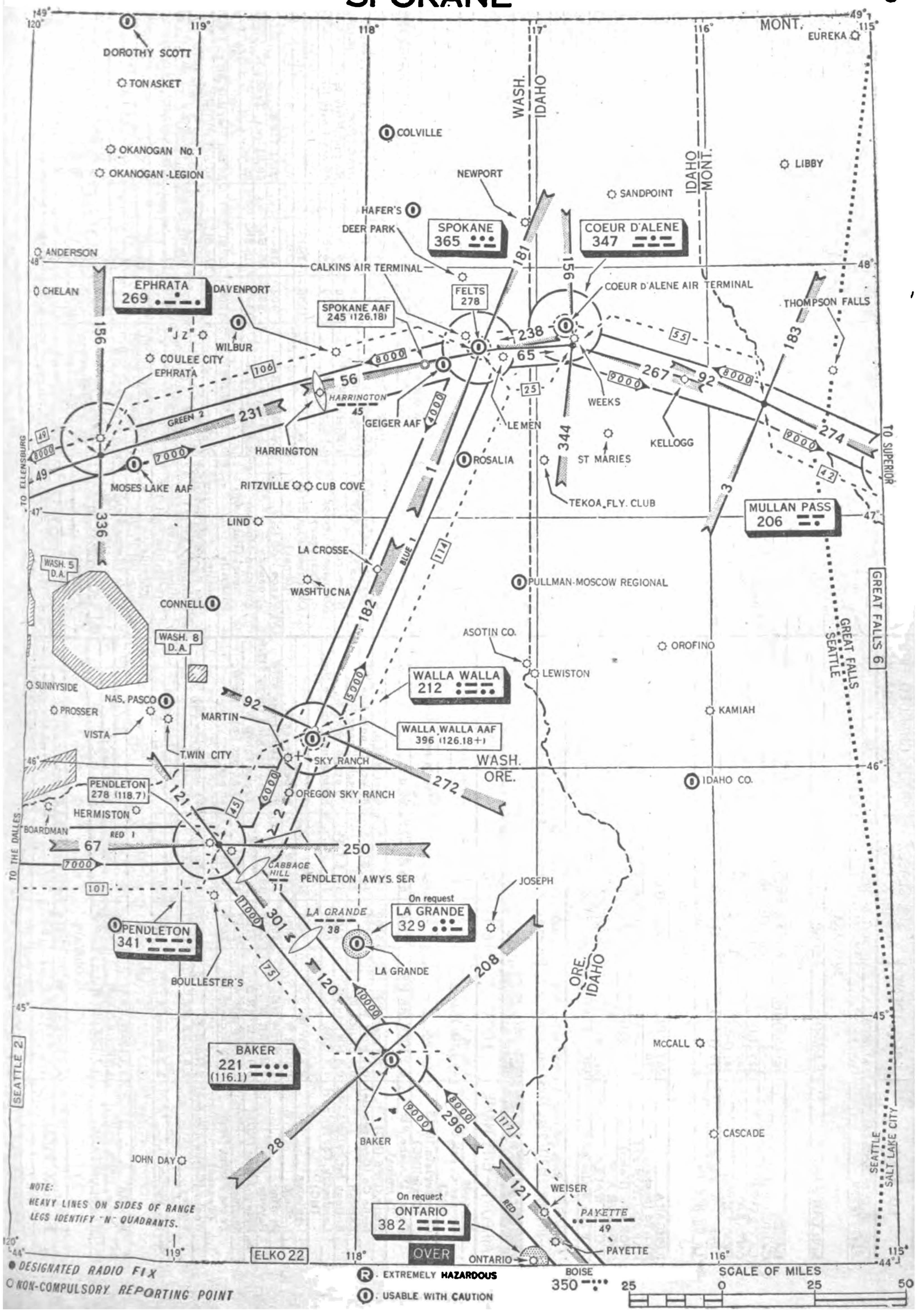
WASHINGTON

(N) Arlington NAAS (N)	3 SW;hwy W	129	50h	INACTIVE.
Barker & Dean (Mt. Vernon)	2.2 S;RR,riv W	4	20 S4	73,80 oct.No sto.Trees NW.
BELLINGHAM	4.5 NW;hwy E	158	50h R1 L5 S4	73 oct. No sto.Fld lgts prior req.ARPT OF ENTRY
Blaine	0.5 E;RR W	15	18 S1	80 oct.
(P) Bowers (Ellensburg)	2.5 NE;hwy S	1729	59h R1 L5 S6	80 oct.Cto lgts prior req.
Bowers Aux.(Ellensburg)	8.6 NNW	2140	30	
Cameron (Kittitas)	0.5 N;RR S	1650	26 S2	80 oct.
(P) Chehalis Co.-City	0.6 NW;RR E	174	50h S6	80 oct.No sto.
Clallam County (Port Angeles)	2.9 WNW;RR NW	290	52h S2	80 oct.
Cle Elum	2.4 E;hwy S	1930	25 S4	80 oct.
County-City (Port Townsend)	5 SSW	110	33 S2	80 oct.Pole lines ESE,WNW ARPT OF ENTRY.
(N) Coupeville OLF (N)	2 SE	199	54h	
★ Easton Int,5B,SA-HL	1.7 NNW;RR SW	2221	30 R1 L2	Trees, mtns WNW.
Everett	2.7 NNE;riv N	15	21 S4	80 oct. 30' hangar W.
Fancher (Wenatchee)	2.5 NE;riv W	1440	33h L3 S6	80 oct.Fld lgts prior req.
Forks (NC)	1 SW;rd S	286	23	75' trees E.HAZARDOUS.
Goldendale (NC)	0.6 SE;RR W	1600	20	Poleline E,SE,Ditch center
Ilwaco (NC)	1.5 ENE;riv S	8	20 S2	80 oct, HAZARDOUS
Intercity,USFS (Winthrop (NC)	4 SSE;riv SW	1650	32 S1	73,91 oct.Mtns SE.
Kelso,61A,SF-SA	1.4 S;RR SW	25	29 R1 L3 S6	80 oct.Poles,trees NW.
Kenmore, (Bothell) (NC)	2.3 NW;rd E	420	17	12-14 brush NNE,SSW.
(P) Moon Island (Aberdeen)	6 W;harb. N,S	14	50h L5 S6	80,91 oct.
(N) Mt.Vernon OLF (N)	5 NW;RR S	146	53h R1 L1 S1	100 oct.Pole line N.CLOSED
Olympia	4.5 S;hwy E	190	50h S4	80 oct.Trees W.
Orcas Island (E.Sound)	0.7 N;hwy E	25	12	
Paine (Everett)	6.5 SW;hwy NE	598	65h R1 L5 S6	80 oct.Fld lgts prior req.
PANGBORN(Wenatchee)	5.3 ESE;hwy S	1246	46h L5	Contact lgts prior req.
Pasayten,USFS (Winthrop)(NC)	38 NW;riv E	4250	28	Use in emerg.only.
Port Angeles CGAS	2 NNE	13	45h R1 L5 S1	91,100 oct,No bcn. lgts prior req.
Randle,USFS (NC)	1 ESE;riv S	940	13	Pwr line WSW,Cattle on fld.
Quillayute	0.7 NNW;8 W Forks	195	50h	
Shelton	2.5 NW;hwy ENE	278	52h	Tower NW.
Skagit Valley Air Svc. (Burlington)	0.7 S;RR E	35	20 S1	80 oct,Stack N.
Snohomish	0.9 SW;RR N	16	19 S4	80 oct,Poles,trees ESE.
Snoqualmie Pass (North Bend)(NC)	3.5 ESE;hwy S	680	24	Trees WNW,ESE.
★ Toledo Int,63B,SF-SA	3 NE;riv S	371	50h R1 L3	
Toppenish	3.2 SSW;hwy E	835	32 S5	80 oct.
Twisp	1.9 SE;riv S	1620	19 S1	80 oct,Trees,hills WNW
Westport (NC)	0.5 N;harbor E	5	18 S1	80 oct.
(N) Whidbey Island NAS	3 NW Oak Harbor	24	70h R2 L6 S2	91,100 oct. (N)
YAKIMA COUNTY	2.8 SSW	1058	50h R2 L5 S6	73,80,100 oct.Poleline S.

2 SEATTLE


ALL FACILITIES IN SEATTLE FLIGHT ADVISORY AREA
BELLINGHAM 209
BLAINE
NEAH BAY (W) 362
ORCAS IS
WASH. 4 D.A.
NAS. WHIDBEY IS.-AULT 278(126.18,142.74)
NAS. WHIDBEY IS. 2870 (142.74)
COUPEVILLE OLF
BELLINGHAM
MT. VERNON OLF 3295 (142.74,126.18)
SKAGIT VALLEY
BARKER & DEAN
NAS. WHIDBEY IS. 358
NAAS ARLINGTON
EVERETT 224
EVERETT
SNOHOMISH
CAMANO IS
CGAS. PORT ANGELES 3295(142.74)
DUNGENESS 62
CLALLAM CO
COUNTY-CITY
QUILLAYUTE
PAINE
MONROE 30
SEATTLE 260 (116.1)
AMBER 8
McCHORD AAF 272
SHELTON
HOBART 15
On request EASTON 278
EASTON
EASTON 37
PANGBORN
FANCHER
CLE ELUM
BOWERS AUX.
GREEN 2
LAKEVIEW 26
OLYMPIA
MOON IS
WESTPORT
BOWERS
ELLENSBURG 385
CAMERON
WASH. 5 D.A.
CHEHALIS CO-CITY
FOR DETAILS IN THE PORTLAND AND SEATTLE AREAS SEE CHART 142
YAKIMA CO. 278 (118.5)
TOLEDO
NAS. ASTORIA
TOLEDO 239
YAKIMA 320 (116.1)
TOPPENISH
CLATSOP CO
WASH.
ORE.
KELSO
On request KELSO 266
On request STEVENSON 347
WOODLAND 23
WASHOUGAL 18
HOOD RIVER
ARLINGTON
ORE. 2 D.A.
WASH. 1 D.A.
BAY OCEAN 8
PORTLAND 2
COASTWAY AERO
NAS. TILLAMOOK 520
PORTLAND 332
THE DALLES
THE DALLES 230
WASCO
WILLAMETTE 21
McMINNVILLE
NAS. TILLAMOOK 278 (142.74)
SKY HAVEN
WILLSHERON FLY SER.
McNARY
DALLAS
RAY ADAMS
ALBANY
CORVALLIS JCT
CORVALLIS
LEBANON
NEWPORT
EUGENE 251
LANGMACK
HARRISBURG
MAHLON SWEET
EUGENE
MEDFORD
REDMOND 368
ROBERTS
PRINEVILLE
BEND (NEW)
CHEMULT
MADRAS
INTERCITY
TWISP
TO EPHRATA
SPOKANE 3
TO PENDLETON
OVER MEDFORD 19
● DESIGNATED RADIO FIX
C NON-COMPULSORY REPORTING POINT
R EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
SCALE OF MILES
25 0 25 50

SPOKANE


DOROTHY SCOTT
TONASKET
OKANOGAN No. 1
OKANOGAN -LEGION
COLVILLE
NEWPORT
HAFER'S
DEER PARK
SPOKANE 365
COEUR D'ALENE 347
SANDPOINT
EUREKA
LIBBY
WASH.
IDAHO
MONT.
ANDERSON
CHELAN
EPHRATA 269
DAVENPORT
CALKINS AIR TERMINAL
FELTS 278
COEUR D'ALENE AIR TERMINAL
THOMPSON FALLS
SPOKANE AAF 245 (126.18)
"J Z"
WILBUR
COULEE CITY
EPHRATA
HARRINGTON 45
GEIGER AAF
LEMEN
WEEKS
KELLOGG
ROSALIA
ST MARIES
TEKOA FLY. CLUB
MOSES LAKE AAF
RITZVILLE
CUB COVE
HARRINGTON
TO ELLENSBURG
TO SUPERIOR
LIND
MULLAN PASS 206
LA CROSSE
WASHTUCNA
PULLMAN-MOSCOW REGIONAL
WASH. 5 D.A.
CONNELL
WASH. 8 D.A.
ASOTIN CO.
OROFINO
LEWISTON
WALLA WALLA 212
SUNNYSIDE
NAS. PASCO
PROSSER
VISTA
MARTIN
KAMIAH
WALLA WALLA AAF 396 (126.18+)
T.WIN CITY
SKY RANCH
WASH.
ORE.
IDAHO CO.
PENDLETON 278 (118.7)
OREGON SKY RANCH
HERMISTON
BOARDMAN
PENDLETON AWYS. SER
CABBAGE HILL
JOSEPH
On request
LA GRANDE 329
LA GRANDE
LA GRANDE 38
PENDLETON 341
BOULLESTER'S
ORE.
IDAHO
McCALL
BAKER 221 (116.1)
BAKER
CASCADE
JOHN DAY
WEISER
On request
ONTARIO 382
PAYETTE 49
PAYETTE
ONTARIO
BOISE 350
GREAT FALLS 6
GREAT FALLS SEATTLE
SEATTLE SALT LAKE CITY
SEATTLE 2
ELKO 22
OVER
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R. EXTREMELY HAZARDOUS
O. USABLE WITH CAUTION
SCALE OF MILES
25 0 25 50

RADIO AIDS

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COEUR D'ALENE (Air Terp	347 (KO)	BMRLZ-DT, 321°,5.2	(4)
PAYETTE FM	(..- - - -)	FM, 301°,49	Boise
MONTANA			
MULLAN PASS	206 (MN)	BMRLZ-DT	(4)
OREGON			
BAKER	221 (BK)(116.1)	SBRAZ-VDT;116°,2.1	(4); 116.1
CABBAGE HILL FM	(- -)	FM, 121°, 11	Pendleton
LA GRANDE	329 (IU)	MHT	(4)
ONTARIO	382 (OO)	MHT	(4)
PENDLETON	341 (PO)	SBRAZ-DT	(4)
Pendleton Field	278 (118.7)	C; 247°,2.3	(4);131.9,126.18,118.7
LA GRANDE FM	(- - - -)	FM, 300°,38	Baker
WASHINGTON			
EPHRATA	269 (EP)	BMRLZ-DT; 336°,3.9	(4)
FELTS (Spokane)	278	C	(4)
HARRINGTON FM	(- - - -)	FM,236°,45.3	Spokane
SPOKANE (Felts)	365 (SM)	SBRAZ-DT;332°,1	(4)
SPOKANE AAF	245 (126.18)	CA	(3); 126.18
WALLA WALLA	212 (WL)	SBMRLZ-DT	(4)
Walla Walla AAF	396 (126.18)(116.1)	CA;182°, 4	(4);126.18,116.1 (7-24)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cascade	1 E;rd N	4765	29 S2	80 oct.Pole line NW.
Cayuse Creek,USFS (NC)	40 ENE Pierce	3700	23	
Chamberlain,USFS (Dixie)(NC)	17.6 SE	5765	21	Maintained May to Nov.
Coeur D'Alene Air Terminal	6.3 NNW;RR NW	2310	54h R1 L3 S1	80 oct.
Dixie,USFS (NC)	4 SW;creek E	5200	28	Obst N,E,S.
Idaho Co.(Grangeville)	0.9 N;rd W	3295	44 S2	80 oct,20 pole line W.
Kamiah	0.6 SE;RR E	1194	28	Rough. Trees NNW.
Kellogg Int,29B,SA-HL	0.8 NW;riv N	2300	38 L3 S4	80 oct,10' dike W.
Landmark,USFS(Knox) (NC)	7.7 ESE	6680	15	Maintained June to Nov.
(P) Lewiston	2 S;riv NW	1426	50h	
McCall	1 S;RR W	5021	23 S4	80 oct.Trees W.
Orofino	1.3 W;riv NE	1000	24 S1	80 oct.1000' mtns WNW
Payette	2 NE;RR W	2200	35	Road crosses fld SE,ENE
Priest River (NC)	0.9 NNW;RR S	2165	21	Trees E;hill W.
Sandpoint	1.5 NNW;RR W	2117	27 S4	73,80 oct.Pole line W.
Tekoa Flying Club (Tensed)	5 NNW;creek N	2650	16 S2	80 oct.
Weeks (Coeur d'Alene)	3 N;RR E	2237	30 S6	73 oct.Trees NE.
Weiser	2.8 S;RR NE	2120	34 S2	73 oct.
St. Maries	1.2 NW;hwy S	2132	23	
MONTANA				
Eureka	2.7 NNW;RR N	2680	20	
Libby, USFS	1 NE;riv S,E,W	2090	30	Mtns sur fld.
Thompson Falls	3.2 ESE;RR N	2460	25	Mtns E,S.
OREGON				
Baker	4.3 NNE;hwy W	3368	49h R1 L3 S6	80 oct.No sto.
Boardman Flight Strip	5.6 WSW;RR N	378	42h	

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boullester's Flying Svc.(Pilot Rock)	0.8 E;hwy N	1780	19 S2	73 oct.
Hug's (Elgin)(NC)	0.8 N;RR E	2670	14	
John Day	0.9 SW;riv N	3600	29	PRIVATE.
Joseph	1.2 W;RR E	4150	33 S2	73,80 oct.
La Grande	5.5 ESE;RR SW	2713	47h R1 L2 S4	80 oct.
Lexington (NC)	0.7 N;hwy E;RR SW	1650	30 S1	80 oct.
Ontario	2.5 W;hwy E	2190	45h R1 L3 S6	80 oct.
Oreg.Sky Ranch(Milton)	3.7 SSW;RR E	1300	20 S6	73,80 oct.
PENDLETON	3 WNW;hwy S	1492	63h R2	
Pendleton Airways, Inc (Pendleton)	3.8 ESE;RR N	1200	37 S6	80,91 oct,Poleline E.
Hermiston	1.7 SE;riv N	635	23 S1	80 oct.
WASHINGTON				
Asotin Co.(Clarkston)	0.6 N	760	34 S6	80,91 oct.Mtn 1 mi W.
Anderson(Pateros)	1.6 SSW;RR N	1100	16	Mtns NW.
Calkins Air Terminal (Spokane)	3.8 N;hwy W	2020	53 S6	80 oct.Trees 200' W.
Chelan	4.7 NE;riv E	1250	34 S2	Fuel. Hills W,N,S.
Colville	0.8 E;hwy NW	1875	27 S1	80 oct.
Connell	1.2 SSW;RR W	870	30 L3 S1	80 oct.
Coulee City	2.2 E;RR W	1700	33 S1	80 oct.
Davenport	0.9 WNW;hwy S	2425	28 S1	80 oct.Obsts ENE.
(P) Deer Park	2.6 ENE	2200	61h S4	80 oct.
Dorothy Scott(Orov'l)	3 NNE;lake W	1150	40 S1	73 oct.2000' mtn S.
Ephrata	2 SE;hwy NW	1258	73h R1 S6	80 oct.
Fairweather(Republic)	0.8 S;riv E	2500	20	Trees N,S. (NC)
FELTS (Spokane)	4.9 ENE;riv N	1962	45h R2 L5 S6	73-91 oct.ARPT OF ENTRY
(N) Geiger (Spokane)(A)	6.5 SW;hwy N	2354	82h	INACTIVE.
Hafer's Ranch (Chewelah)	3.6 SSW;RR E	1700	18	
★ Harrington Int,19,SA-HL	1 NNW;hwy E	2305	32 L3	
La Crosse,28B,PD-SM	2.5 SW;RR NW,E	1459	37 L3 S1	80 oct.
Lemen Airpark (Opportunity)	3 SE;lake N	2040	32 S4	80 oct.No sto,Poleline NNE
Lind	1.3 NE;RR S	1478	33 L2 S2	80 oct.
Martin (College Pl.)	1.5 WSW; RR N	750	24 S6	80,91 oct.No sto.Trees
(A) Moses Lake AAF (A)	6.5 NNW;RR E	1190	100h	INACTIVE. ENE.
Newport	1 W;riv NE	2150	29 S2	No fuel.Hills E,W.
Okanogan-Legion (Okanogan)	1.1 E;riv NW	1100	24 S1	80 oct.Posts NE.
Okanogan Flgt Strip (Omak)	4 N	1298	47h	
(N) Pasco NAS (N)	2.8 NNW;RR E	402	47h	INACTIVE.
Prosser	1.4 NW;riv SE	685	40 S6	80,91 oct, Trees W.
Pullman-Moscow Regional (Pullman)	3.4 ENE;RR S	2549	51h S6	80 oct.
Ritzville	0.5 W;RR SW	1800	15 S1	80 oct.Pwrline,bldgs NE.
Rasalia	2.6 W	2180	26 S1	80 oct.Hill NE.
Sky Ranch(WallaWalla)	1.3 SW		32	Pwr line W.Data unverif.
(A) Spokane AAF (A)	12 WSW	2430	80h R1 L5 S6	62,73,91,100 oct.JP-1.No sto
Sullivan Lake (Metaline Falls)	4 ESE;lake S	2590	21	Road crosses fld,caution.
Sunnyside	2 SE;RR NE	730	18 S1	80 oct.
Tonasket	1.9 NNW;riv E	1250	31 S1	80 oct.Pwr line SSW.
Vista (Kennewick)	4.5 W;rivers NW	516	35h	
Wallace (Mead)(NC)	2 W;RR E	1935	26	40 trees NE.
(A) WALLA WALLA AAF	3 NE; hwy S	1186	72h R2 L5 S6	73,91,100 oct. (A)
Washtucna	1 S;RR SE,NW	1000	39 S2	80 oct. Hill NE.
Wilbur	1.8 W;RR S	2175	29 S6	80 oct.Pole line NE.
"J Z" (Almira)	1 NNW;RR SW	1950	21	
Twin City (Kennewick)	1.3 SE;RR E	385	30 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page X111)(NC)-Not charted.

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DU BOIS (Int.)	388 (DZ)	SBRAZ-DT, 332°,1.7	(4)
MONTANA			
ALBERTON FM	(- - -)	FM, 276°,14.8	Missoula
BELT FM	(- -)	FM, 86°,21.5	Great Falls
BOZEMAN (Gallatin)	329 (BL)	SBMRAZ-DT,319°,0.8	(4)
BUTTE	233 (BT)	BMRLZ-DT,99°,16.1	(4)
CASCADE FM	(- - -)	FM,202°,19.3	Great Falls
CUT BANK	263 (GV)	SBRAZ-DT,327°,3.1	(4)
DILLON (Int.)	379 (DE)	BMRLZ-DT,167°,2	(4)
DRUMMOND (Int.)	296 (DR)	SBMRAZ-DT,185°,1.4	(4)
GREAT FALLS	317 (GT)	SBRAZ-DT	(4)
Great Falls Mun.Arpt.	278 (118.7) (126.18 on req)	AC; 17°, 1.9	(4);126.18,131.9,118.7
GREAT FALLS AAF	219 (126.18)	CA (ILS)	(3); 126.18
HELENA	371 (HL)	SBMRAZ-DT,252°,1.9	(4)
HOMESTAKE FM	(- -)	FM, 275°, 21	Butte
LIVINGSTON (Int.)	224 (LT)	SBMRAZ-DT,247°,2	(4)
McDONALD PASS FM	(- - - -)	FM, 252°, 18	Helena
MISSOULA	308 (MX)(116.1)	SBMRAZ-VDT,120°,1.5	(4); 116.1
STANFORD FM	(- - - -)	FM,270°, 29	Lewistown
SUPERIOR (Int.)	254 (SP)	BMRLZ-DT,275°,0.1	(4)
WHITEHALL (Int.)	284 (WW)	SBRAZ-DT,183°,2.3	(4)
WHITETAIL FM	(-)	FM,352°,15.6	Whitehall
WINSTON FM	(- -)	FM, 100°, 15	Helena

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
GREAT FALLS AAF, MONT.	109.9		23° Mag.	TM (.27)	MM ·····(1.13)	OM — — (4.63)
					MMK	OMK

S-Simultaneous Range and Voice. W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

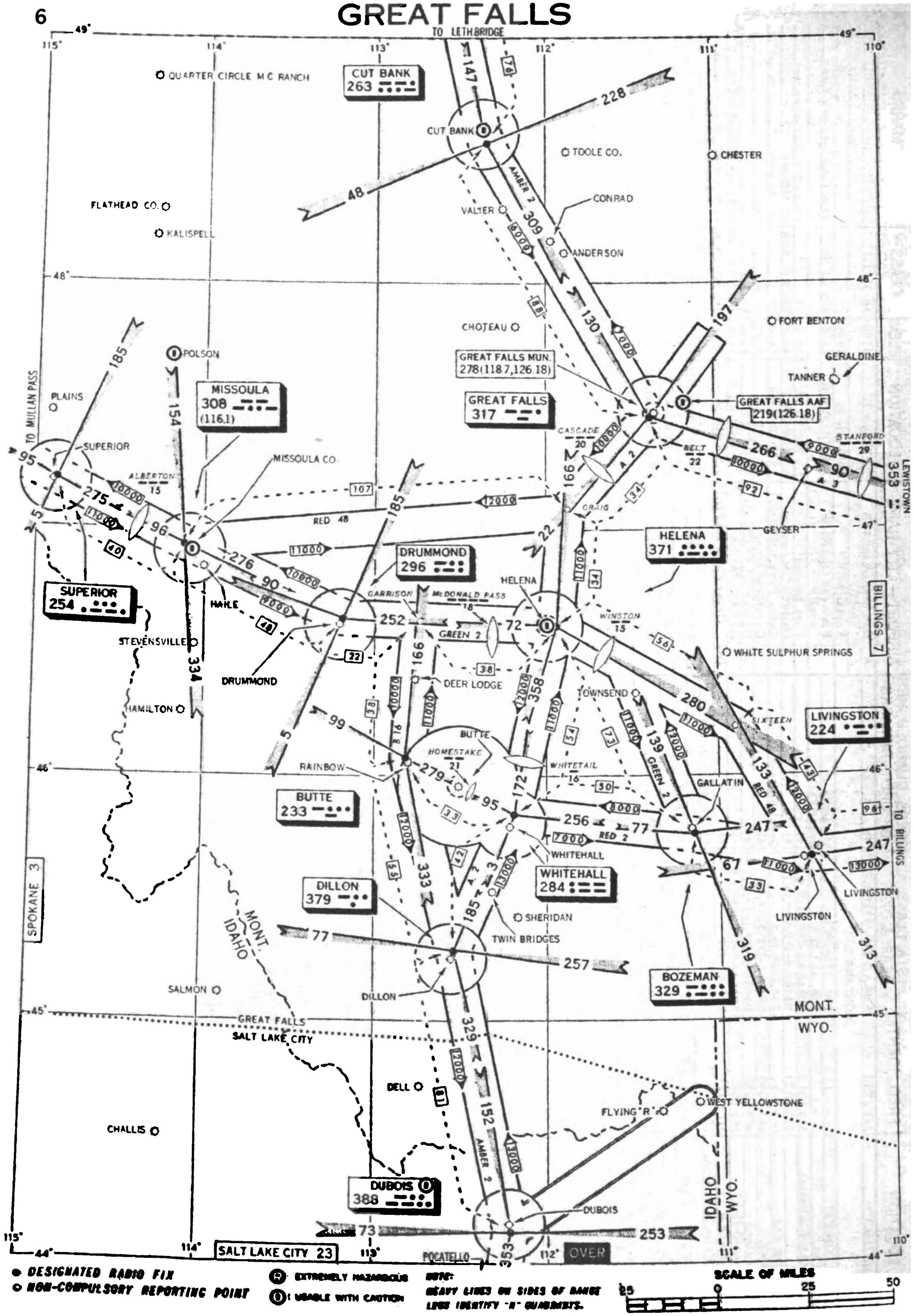
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Spring (NC)	1.1 WNW;RR SE	6350	27	Trees ENE,WSW.
Challis	1.2 NNE;hwy E	5000	34 S1	73,80 oct.
★ Dubois Int,23,SL-GT	0.8 SSE	5123	48 R1 L3	30' pole W.
Flying R (Lake)	2.8 SE;lake W	6630	34 S1	Ltd 73 oct.
Moose Creek,USFS (Red Riv,Hot Sprgs)	26.5 NNE	2200	23	Mtns sur fld. (NC)
Salmon	4 S;riv W	4045	40 S2	80 oct,Mtns NE.
MONTANA				
Anderson (Conrad)	4.8 SE;RR W	3730	16	PRIVATE.
Basin Creek (Flathead Nat'l Forest)(NC)	56 NE Missoula	4900	21	Closed to public
Big Prairie (Flathead Nat'l Forest)(NC)	57 NE Missoula	4650	22	Closed to public
Black Bear (Flathead Nat'l Forest)(NC)	58 SE Kalispell	4200	22	Closed to public
Bob Gordon (Cascade)	0.9 W;RR E	3480	25	(NC)
BUTTE	4 S;RR W,N	5553	56h R1 L5 S4	80,91 oct.
Chester	1.5 NW;RR S	3150	44	
Choteau	1.2 NNE;RR W	3810	39 S4	80 oct.
Condon (Flathead Nat'l Forest)(NC)	48 NNE Missoula	3690	25	
Conrad	1.1 W; creek S	3530	32 S1	80 oct.
CUT BANK	3 SW;riv 1 E	3899	87h R1 L5 S6	80 oct. ARPT OF ENTRY.
Deer Lodge	1.5 W;RR E	4700	38 S1	80 oct.
Dell Fight Strip,28, SL-GT	1.3 NW;RR E	6008	70h L2	
★ Dillon Int,32, SL-GT	4.6 ENE;riv 2 W	5238	38 R1 L3 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted.

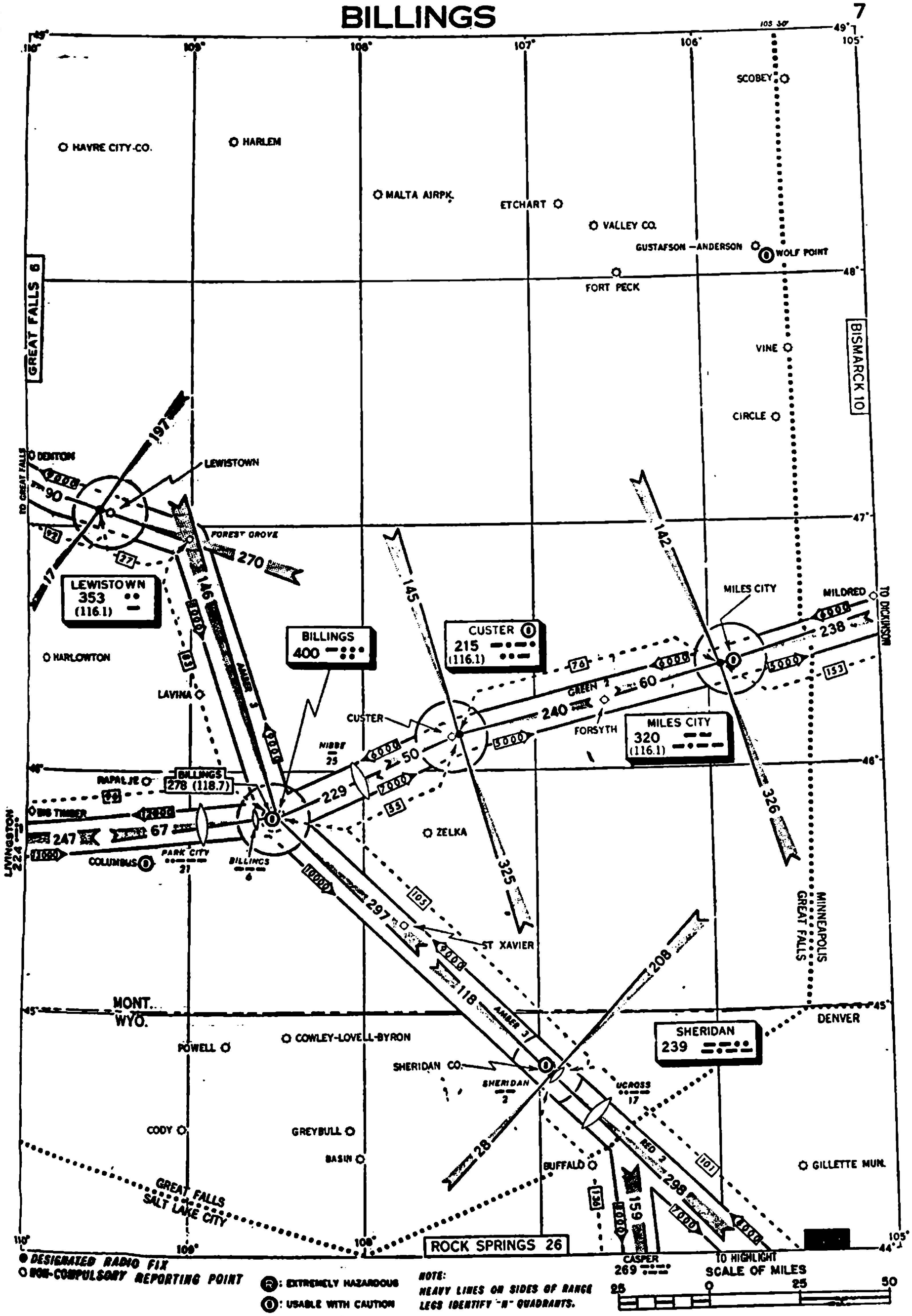
MONTANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Drummond Int.44B, SA-HL	4 SW;hwy E	4300	36 R1 L3	
Ennis (NC)	1 NW;riv E	4985	23	
Flathead Co.(Kalispell)	7.4 NNE;RR E	2690	47h L2 S1	80 oct.All lgts prior req.
Fort Benton	1.3 NE;RR SE	2870	27	Poles NW.Soft when wet.
Gallatin (Bozeman)	8.5 NW;RR S	4461	52h R1 L5 S6	80-100 oct.
Gates Park,USFS(NC)	35 W Choteau	5400	26	Sur by mtns.Closed to public
Geraldine Mun.	0.5 S;RR NE	3200	17 S1	Ltd 73 oct.
★ Geyser Int,55,CX-GT	3 SE;RR N	4281	43 L3	
GREAT FALLS	3.5 WSW;RR E	3664	70h R2 L5 S6	80,91 oct.ARPT.OF ENTRY.
(A) Great Falls AAF(A)	4.5 E;RR N	3459	89h R3 L5 S6	73,91,100 oct.IP-1.Foreign clearing station.
Hale (Missoula)	2.3 SSW;hwy NW	3200	38 L4 S6	73 oct.All lgts prior req.
Hamilton	1.3 ENE;hwy W	3640	24 S6	80 oct.Pole line S.
HELENA	2.5 ENE;hwy W	3894	55h R1 L5 S6	80,91 oct.Stack WSW.
Holbrook (Flathead Nat'l Forest)(NC)	58 NE Missoula	4575	20	Sur by mtns.Closed to public
Hot Springs (NC)	2.2 E;hwy W	2800	27	
Kalispell	1 S;hwy E	2900	34 S4	80 oct.Poles NW.
Livingston	6 ENE;RR N,W	4656	62 S1	80 oct.
★ " Int,10,HL-Twin Cities	2 E;RR N	4590	40 R1 L3	Poles S.
Meadow Creek (Flathead Nat'l Forest)	48 SE Kalispell	4000	22	(NC)
MISSOULA COUNTY	5.3 WNW;RR N	3199	71h R1 L5 S2	73,91 oct.
Plains	1.3 NNW;RR E	2500	32 S4	80 oct.No sto.30' Poles NW,NE.
Polson	1.5 W;riv E	2900	23 S4	80 oct.No sto.
Quarter Circle,M.C. Ranch (Polebridge)	4.2 NW;riv W	3600	26 S1	73 oct.Ski-equipped acft only. Nov. thru April.
Rainbow Skyport (Gregson)	0.7 N;RR E,S	5030	40 S1	80 oct.
Schaeffer (Flathead Nat'l Forest)(NC)	50 ESE Kalispell	4855	24	Sur by mtns.
Seeley Lake (NC)	1.5 WNW;lake SE	4150	20	Trees NW.
Sheridan	1.5 SE;RR W	5160	27	Brush, cattle on fld.
Six Mile Landing Fld (Huson)(NC)	2 NNW;riv S	3200	24	Hill NE;make SW approach.
Spotted Bear (Flathead Nat'l Forest)(NC)	39 SE Kalispell	3800	22	
Stevensville	2 ENE;riv 2 W	3620	30 S2	73 oct.
★ Superior Int,36B,SA-HL	1 S;RR SW	2700	35 R1 L2	Mtns NW;trees SE.
Tanner (Geraldine)	0.5 NW;RR NE	3200	25	
Toole Co.(Shelby)	2 NNW;RR S	3300	26 S2	80 oct.Poles E,SE.
★ Townsend Int,3,HL-Twin Cities	2.2 ENE;riv 3 W	4000	40 L2 S1	73 oct.
Troy (NC)	1.3 NW;riv E	2017	26	Trees SSE.
Twin Bridges	1.5 SE;RR SW	4725	38	
Valier	0.6 S;lake S	3820	35	Caution when wet.
West Yellowstone	1.3 W;RR S	6700	63 S2	91 oct. Trees sur fld.
★ Whitehall Int,36A,SL-GT	6.7 SW;RR N	4602	60 R1 L3	
White Sulphur Sprgs.	4 SSW;RR E	5010	24	Livestock on fld.

GREAT FALLS


TO LETHBRIDGE
QUARTER CIRCLE M C RANCH
CUT BANK 263
CUT BANK
TOOLE CO.
CHESTER
FLATHEAD CO.
KALISPELL
VALIER
CONRAD
ANDERSON
CHOTEAU
FORT BENTON
GREAT FALLS MUN. 278(118.7,126.18)
GERALDINE
TANNER
GREAT FALLS AAF 219(126.18)
GREAT FALLS 317
POLSON
MISSOULA 308 (116.1)
PLAINS
SUPERIOR
MISSOULA CO.
ALBERTON 15
CASCADE 20
BELT 22
STANFORD 29
LEWISTOWN 353
CRAIG
GEYSER
HELENA 371
RED 48
DRUMMOND 296
SUPERIOR 254
HALE
GARRISON
McDONALD PASS 18
HELENA
WINSTON 15
WHITE SULPHUR SPRINGS
BILLINGS 7
STEVENSVILLE
DRUMMOND
DEER LODGE
TOWNSEND
SIXTEEN
LIVINGSTON 224
HAMILTON
BUTTE
HOMESTAKE 21
WHITETAIL 16
GALLATIN
RAINBOW
BUTTE 233
WHITEHALL
WHITEHALL 284
SHERIDAN
TWIN BRIDGES
LIVINGSTON
DILLON 379
MONT.
IDAHO
SALMON
DILLON
BOZEMAN 329
MONT.
WYO.
GREAT FALLS
SALT LAKE CITY
DELL
FLYING "R"
WEST YELLOWSTONE
CHALLIS
DUBOIS 388
DUBOIS
IDAHO
WYO.
SALT LAKE CITY 23
POCATELLO
TO MULLAN PASS
SPOKANE 3
TO BILLINGS
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
SCALE OF MILES
25 0 25 50

BILLINGS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

(R): EXTREMELY HAZARDOUS
(U): USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

SCALE OF MILES
25 0 25 50

RADIO — MONTANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BILLINGS	400 (BI)	SBRAZ-DTX	(4)
Billings Airport	278 (118.7)	C; 247°, 1.5	(4);118.7,126.18,131.9
BILLINGS LFM	(- - -)	LFM, 247°, 6	Billings
CUSTER (Int.)	215 (CU)(116.1)	BMRLZ-VDT,230°,2	(4); 116.1
LEWISTOWN	353 (IT)(116.1)	SBRAZ-VDT, 90°,2.9	(4); 116.1
MILES CITY	320 (MY)(116.1)	SBMRAZ-VDT,58°,2.1	(4); 116.1
NIBBE FM	(-)	FM, 49°, 25.4	Billings
PARK CITY FM	(. . - - -)	FM, 247°, 21	Billings
WYOMING			
SHERIDAN LFM	(- -)	LFM, 118°, 2.3	Sheridan
SHERIDAN	239 (ZY)	SBRAZ-DT,298°, 1.8	(4)
UCROSS FM	(. . - -)	FM, 118°, 17.4	Sheridan

S-Simultaneous Range and Voice. W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MONTANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Horn Co.(Hardin)(NC)	2.3 ESE;riv W	3000	31	
★ Bigtimber Int.13A,HL-Twin Cities	1.5 SSW;hwy N	4450	43 L3	
BILLINGS	2.5 NW;RR S	3565	57h R2 L4 S6	73,91,100 oct.
Bones Bros. Ranch (Birney) (NC)	2 ESE;crk W	3500	29	ROUGH
Chinook (NC)	2.8 NNE;rd W	2480	42	
Circle	1.3 E;RR N	2400	21	
Columbus	1 ESE;RR N	3575	50 S1	73 oct.Poles W,E,NW.
★ Custer Int.25.HL-Twin Cities	2.3 E;riv NE	2868	42 R1 L3	
Denton	2.2 SSW;RR N	3850	26 S4	73 oct.
Etchart (Tampico)	0.5 NNW;RR S	2100	29 S2	80 oct.Trees SE.
★ Forsyth Int.30.HL-Twin Cities	3 ENE;riv N	2722	30 L3	
Fort Peck	1.6 W;hwy S	2294	30 S1	80 oct.
Gustafson-Anderson (Wolf Point)	0.8 NW;RR S	2040	26 S6	80 oct.Pole line E.
Harlem	2.3 NNE;RR E	2560	24 S2	No fuel
Harlowton	2 WNW;riv S	4400	29 S2	73 oct.
Havre City-County	4 WSW;lake E	2589	48h S4	80 oct.ARPT OF ENTRY.
Ingomar (NC)	0.8 WSW;RR N	2950	24	
Jordan (NC)	1.8 WNW;rd S,W	2637	40	
Lavina Int,44B,CK-GT	1 WNW;RR S	3496	39 L3	
LEWISTOWN	2.5 SW;RR NW	4177	100h R1 L5 S4	80 oct.
Malta Airpark	0.8 SW;RR N	2270	31 S1	80 oct.Shrubs NW.
★ Mildred Int,38,HL-Twin Cities	3.4 WSW;rd E	2535	37 L2	
(P) MILES CITY	2.5 NW;hwy NE	2626	56h R1 L5 S6	73,91 oct.
Poplar (NC)	0.8 N;RR S	1970	33	
Rapelje	1 SE;RR N	4030	38	
Red Lodge (NC)	0.5 WNW;rd N	5600	29	ROUGH
Roundup (NC)	1.9 N;hwy W,S	3500	37	
★ St.Xavier Int,35,CX-GT	7.3 SSW;riv W	3170	40 L3	
Scobey	1 NW;RR S	2458	36 S1	80 oct.
Valley County (Glasgow)	1.8 NNE;RR S	2298	81h S4	No fuel.
Vine (Vida)	8 S;hwy W	2350	27 S1	80 oct.
Wolf Point	3 E;riv S	1980	35 S2	80,91 oct.
Zelka (Hardin)(NC)	2 W;hwy N	3002	18	
WYOMING				
Basin	2.5 NE;riv E	3775	34	Hills adj E.
Buffalo, 27, CX-GT	2.6 NNW;hwy E	4900	40 L3	
Cody	2 ESE;riv N	5084	47 S6	73,91 oct.Hill E-pole line S.
Cowley-Lovell-Bryan	2 NNE;rd NW	4050	32	
(P) Gillette	5.2 NNW;hwy E	4380	36 S2	73,80 oct.
(P) Grey Bull	2 NW;hwy S	3900	44 S2	73 oct.
(P) Powell	8 NNW	5054	42 S2	73 oct.
(P) SHERIDAN CO.(Sheridan)	2 SSW;hwy E	3961	60h R1 L5 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII.) (NC)-Not charted.

BISMARCK

RADIO — NORTH DAKOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISMARCK	230 (RK)(116.1)	SBRAZ-VDT, 260°,2.3	(4); 116.1
DICKINSON (Mun.)	308 (DC)(116.1)	SBMRAZ-VDT,167°,2.1	(4); 116.1
DRISCOLL FM	(-)	FM, 73°, 30	Bismarck
GOLVA (Int.)	266 (GA)	MHT	(4)
JUDSON FM	(- - -)	FM, 260°, 27	Bismarck
MINOT (Port O Minot)	209 (UI)	BMRLZ-DT,301°, 3.4	(4)
SOUTH DAKOTA			
PHILIP	206 (IL)	MHT	(4)
PIERRE	347 (PX)	SBRAZ-DT,249°,3.5	(4)
RAPID CITY	221 (RZ)	SBRAZ-DT	(4)
Rapid City AAB	396 (126.18)	CA; 345°, 5.5	(4); 126.18
SPEARFISH (Black Hills Airport)	335 (SE)	HT	(4)

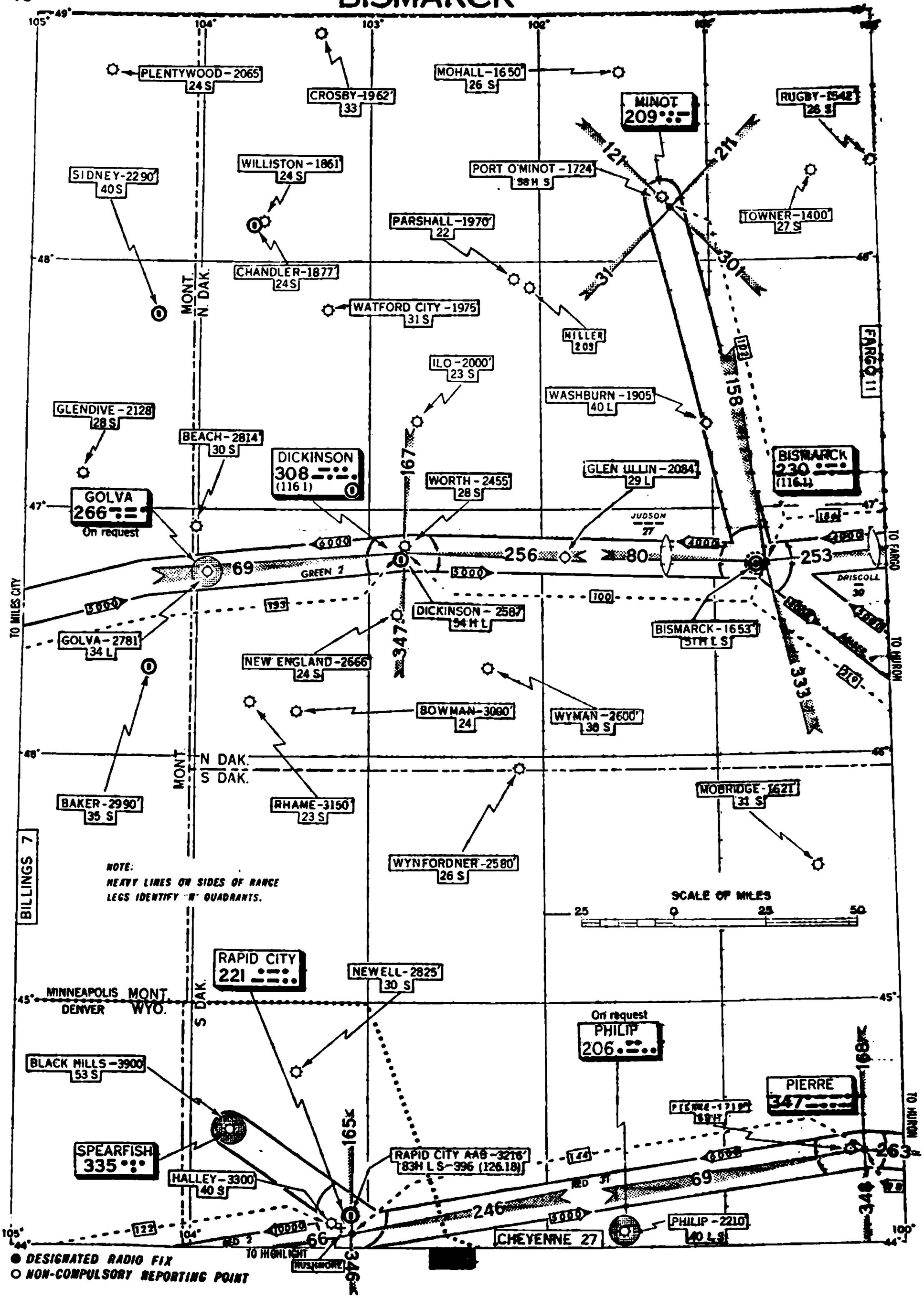
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MONTANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Baker	0.8 SSE;hwy N	2290	35 S2	80 oct.Poles NW,W.
Glendive	2.5 NE;RR S	2128	28 S6	80 oct. Poles S.
Plentywood	0.5 S;RR NE	2065	24 S4	80 oct.
Sidney	6.6 NW;hwy W	2290	40 S2	80 oct.
NORTH DAKOTA				
Beach	0.8 NNW;RR W	2814	30 S1	73 oct.
BISMARCK	2.4 SSE;RR ENE	1653	51h R1 L5 S4	73,80,91 oct. No sto.
Bowman	1.5 W;RR N	3000	24	
Chandler (Williston)	3 W;RR SE	1877	24 S6	80 oct.
Crosby	1 N;RR SW	1962	33	
Dickinson Mun.	5.8 S;hwy E	2587	54h R1 L3	
★ Glen Ullin Int, 53, HL-Twin Cities	1.5 WSW;RR N	2084	29 L3	Poles NE,trees E,SE.
★ Golva Int, 43, HL-Twin Cities	1.5 E;hwy W	2781	34 R1 L3	
Ilo (Killdeer)	1.5 SE;hwy N		23 S2	73 oct,Data not verified.
Miller (Parshall)	5 SE;RR N	1950	20 S1	80 oct,Pole line N.
Mohall	0.8 WNW;RR E	1650	26 S2	73 oct. Pole lines S.
New England	2.4 NE;hwy W	2666	24 S2	73,80 oct. Pole line W.
Parshall	1 S;RR N	1970	22	
(P) Port O Minot (Minot)	1.6 NNE;hwy W	1724	58h R1 L5 S4	80,91 oct.No bcn. Ctc lgts prior req. Pwrline SW.
Rhame	1.5 SW;RR NE	3150	23 S1	73 oct,Pole line S.
Rugby	2 NNW;RR SW	1542	26 S6	80 oct.
Towner	1.5 NE;RR S	1400	27 S1	80 oct,Pole line N, NW.
★ Washburn Int, 4, RK-UI	5.1 N;hwy W	1905	40 L3	Pole line W.
Watford City	1.2 ENE;hwy S	1975	31 S1	73 oct.
Williston	1.1 NNW;hwy E	1861	24 S6	80,91 oct.Obsts N,E,S.
Worth (Dickinson)	1.8 SW;riv NW	2455	28 S6	73 oct,Hangar NW.
Wyman (Mott)	1 S;dam N		30 S1	80 oct. Data not verified.
SOUTH DAKOTA				
Belle Fourche (NC)	8.4 NW;hwy N	3140	50	
BLACK HILLS (Spearfish)	4.5 E;hwy S	3900	53 R1 S6	73, 91 oct.
Halley (Rapid City)	1.5 NNE;riv SE	3300	40 S6	73 oct.
Mobridge	1.2 NW;RR SW	1621	31 S4	80 oct. Pole line E, NE.
(P) Newell	0.2 N	2825	30 S2	73 oct,Pole line SE,W,N,NW.
Philip, 31, CX-HR	3.6 E;RR S	2210	40 R1 L3 S6	80 oct,No sto.Pole line N.
PIERRE	3.5 NE;riv SE	1719	69h R1	
(A) Rapid City AAB (A)	8 NE; RR S	3216	83h R2 L5 S4	73,91,100 oct. JP-1.
Rushmore (Rapid City)	3.5 E	3100	31 S6	73,91 oct. Data not verified.
Wynfordner (Lemmon)	1.3 NE;RR S	2580	26 S1	80 oct. Pole line NW.
Dunseith (NC)	1.5 S	1715	26	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted.

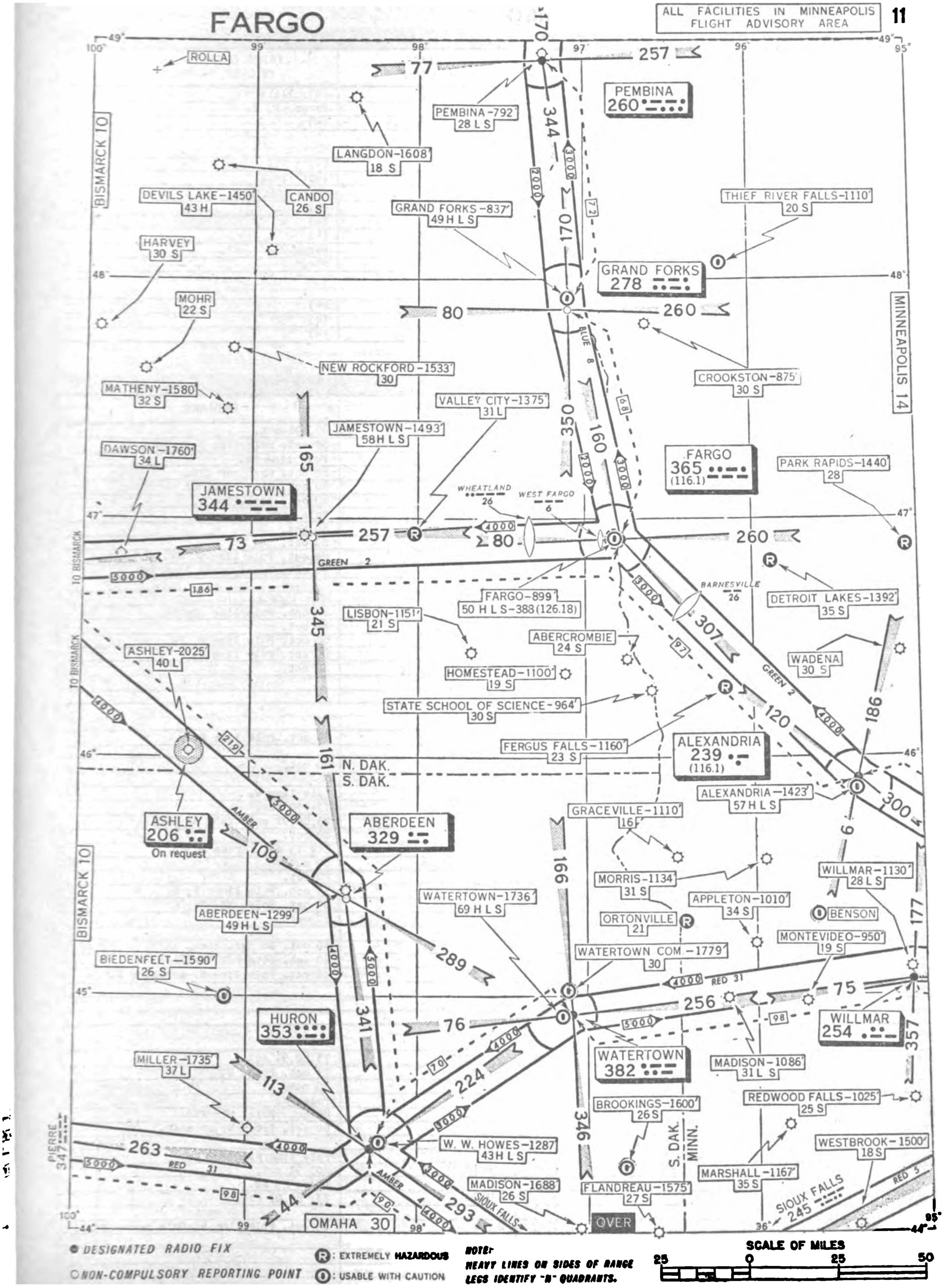
BISMARCK



NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

FARGO


ALL FACILITIES IN MINNEAPOLIS FLIGHT ADVISORY AREA
ROLLA
BISMARCK 10
DEVILS LAKE-1450' 43 H
CANDO 26 S
HARVEY 30 S
MOHR 22 S
MATHENY-1580' 32 S
DAWSON-1760' 34 L
JAMESTOWN 344
LANGDON-1608' 18 S
PEMBINA-792' 28 L S
PEMBINA 260
GRAND FORKS-837' 49 H L S
THIEF RIVER FALLS-1110' 20 S
GRAND FORKS 278
NEW ROCKFORD-1533' 30
VALLEY CITY-1375' 31 L
JAMESTOWN-1493' 58 H L S
CROOKSTON-875' 30 S
MINNEAPOLIS 14
FARGO 365 (116.1)
PARK RAPIDS-1440 28
WHEATLAND 26
WEST FARGO 6
TO BISMARCK
GREEN 2
FARGO-899' 50 H L S-388(126.18)
BARNESVILLE 26
DETROIT LAKES-1392' 35 S
LISBON-1151' 21 S
ABERCROMBIE 24 S
HOMESTEAD-1100' 19 S
WADENA 30 S
STATE SCHOOL OF SCIENCE-964' 30 S
FERGUS FALLS-1160' 23 S
ALEXANDRIA 239 (116.1)
ALEXANDRIA-1423' 57 H L S
N. DAK.
S. DAK.
ASHLEY-2025' 40 L
ASHLEY 206 On request
ABERDEEN 329
GRACEVILLE-1110' 16
MORRIS-1134' 31 S
WILLMAR-1130' 28 L S
ABERDEEN-1299' 49 H L S
WATERTOWN-1736' 69 H L S
APPLETON-1010' 34 S
ORTONVILLE 21
BENSON
MONTEVIDEO-950' 19 S
WATERTOWN COM.-1779' 30
BIEDENFELT-1590' 26 S
HURON 353
MILLER-1735' 37 L
WILLMAR 254
WATERTOWN 382
MADISON-1086' 31 L S
BROOKINGS-1600' 26 S
REDWOOD FALLS-1025' 25 S
W. W. HOWES-1287' 43 H L S
WESTBROOK-1500' 18 S
MADISON-1688' 26 S
MARSHALL-1167' 35 S
FLANDREAU-1575' 27 S
SIOUX FALLS 245
OMAHA 30
PIERRE 347
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
SCALE OF MILES
25 0 25 50

FARGO

MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	239 (AE)(116.1)	BMLZ-VDT, 186°, 2	(4); 116.1
BARNESVILLE FM	(- -)	FM, 127°, 26	Fargo, N. D.
WILLMAR	254 (IW)	SBMRAZ-DT, 357°, 3.5	(4)
NORTH DAKOTA			
ASHLEY (Int.)	206 (AI)	MHT	(4)
FARGO	365 (FO)(116.1)	SBRAZ-VDT,	(4); 116.1
Fargo-Hector Airport	388 (126.18)	C, 260°, 0.9	(4); 126.18
GRAND FORKS	278 (GF)	BMLZ-DT, 350°, 3.4	(4)
JAMESTOWN	344 (JM)	SBMRAZ-DT, 253°, 1.5	(4)
PEMBINA (Int.)	260 (PB)	SBMRAZ-DT, 350°, 1.6	(4)
WEST FARGO LPM	(- - -)	LPM, 260°, 5.5	Fargo
WHEATLAND FM	(. . - - -)	FM, 260°, 25.5	Fargo
SOUTH DAKOTA			
ABERDEEN	329 (AN)	SBRAZ-DT, 341°, 2.5	(4)
HURON (W.W. Howes)	353 (HR)	BMRLZ-DT, 44°, 2.7	(4)
WATERTOWN	382 (WU)	BMRLZ-DT, 256°, 2.9	(4)

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs

* Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MINNESOTA

AIRPORT - CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Alexandria	1.5 SSW; lake NW	1423	57h R1 L5 S4	80, 91 oct.
Appleton	1.9 NNE; riv S	1010	34 S2	80 oct. Pole line S,SE,SW.
Benson	2.4 NW	1031	22	Pole line NW.
Crookston	3 NNW; RR N	875	30 S2	80 oct. Obst sur fld.
Detroit Lakes	2.7 W; RR N	1332	35 S2	80 oct. Rnwy data not verified.
Fergus Falls	4.3 W; RR N	1160	23 S1	80 oct. Pole line W.
Graceville	0.8 WNW; RR S	1110	16	Pole line S.
Madison	1 S; hwy W	1086	31 L3 S6	80 oct.
Marshall	1.5 W; RR NE	1167	35 S4	80 oct.
Montevideo	2.2 NNE; RR W	950	19 S2	80 oct. Pole line W, NW.
Morris	2.7 WSW; RR N	1134	31 S2	80 oct. Trees, pole line NW.
Ortonville	1 ESE; hwys S, W	1090	21	
Park Rapids	1.7 SSW; RR E	1440	28	Pole line E.
Redwood Falls	1.8 NE; riv NE	1025	25 S2	80 oct. Pole line SE, SW.
Thief River Falls	3.6 S; riv W	1110	20 S1	80 oct.
Wadena	1 E; RR NW	1300	30 S1	80 oct. Pole line S, NW.
Westbrook	1 SE; hwy N	1500	18 S1	80 oct. Pole line W.
Willmar, 16, HR-MP	1.5 W; RR E	1130	28 R1 L3 S6	80 oct.
NORTH DAKOTA				
Abercrombie	1.7 SSW; riv E	949	24 S1	80 oct. Pole line E.
* Ashley Int, 40, OH-RK	1 SE; hwy N	2025	40 R1 L3	
Cando	1.1 SW; RR E	1490	26 S1	80 oct.
Dawson Int, 63, HL-Twin Cities	1 SW; RR N	1760	34 L2	
Devils Lake	2.5 W; hwy S	1450	43h	Pole line W.
FARGO-HECTOR (Fargo)	2.9 NNW; RR SW	899	50h R2 L5 S6	73-100 oct.
GRAND FORKS	2.6 WNW; RR S,E	837	49h R1 L5 S6	73,80,91 oct. ARPT OF ENTRY.
Harvey	1.9 N; RR SW	1605	30 S1	80 oct.
Homestead (Wyndmere)	6.2 N; hwy W	1100	19 S1	Ltd 73 oct. Trees E, SW.
(P) Jamestown	1.5 NE; hwy S	1493	58h R1 L3 S6	80 oct.
Langdon	1 W	1608	18 S1	80 oct.
Lisbon	0.8 SSW; RR SE	1151	21 S1	73 oct. Pole lines N, S.
Matheny (Carrington)	1.3 W; RR, hwy N	1580	32 S1	80 oct. Poles NE, NW.
Mohr (Fessenden)	1.5 SW; RR NE	1620	22 S1	80 oct.
New Rockford	1.5 N	1533	30	
* Pembina Int, 14, PO-WG	1 S; RR W	792	28 R1 L3 S4	80 oct. No ngt. svcg. ARPT. OF ENTRY.
Rolla	0.7 N; lake S		21 S2	80 oct. Data not verified.
St.School of Science (Wahpeton)	0.8 N; RR W	964	30 S6	80 oct. Pole line N; pwr line E.
(P) Valley City, 71, HL-Twin Cities	1.5 NW; riv NE	1375	31 L3	
SOUTH DAKOTA				
Aberdeen	2.9 E; RR N	1299	49h R1 L5 S6	73,80,91 oct.
Biedenfelt (Faulkton)	2 S; rd, RR E	1590	26 S1	73 oct. Poles E.
Brookings	2.5 SSE; hwy W	1600	26 S4	80 oct.
Eureka	6 N; rd W	1895	28	Poles W.
Flandreau	3 S; hwy N, E	1575	27 S1	80 oct. Poles sur fld.
→ Madison	3.7 ENE; hwy S	1688	26 S2	80 oct. Trees W; pole NW.
Miller, Int, 44, CX-HR	5.6 S; hwy E	1735	37 L2	
Redfield (NC)	1 SSW; RR NE	1300	25	Pole line E.
WATERTOWN	2 NW; RR NE	1736	69h R1 L5 S1	80, 91 oct.
" Watertown Commercial	0.3 N; hwy E	1779	30	Poles E, SE.
W.W. HOWES (Huron)	1.3 NNW	1287	43h R1 L3 S6	73, 80,91 oct.
→ Hofer-Kannegieter (Willow Lake)	1.5 E	1787	22 S2	73 oct. Pole line E. Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted.

MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
DULUTH (Williamson-Johnson)	221 (DH)	SBRAZ-DT, 13°, 4	(4)
HAMEL FM	(- - - -)	FM, 236°, 24	Minneapolis
HASTINGS FM	(- -)	FM, 118°, 10.2	Minneapolis
JORDAN FM	(- - -)	FM, 235°, 26	Minneapolis
LAKE CITY	206 (FE)(116.1)	MHVT	(4); 116.1
MINNEAPOLIS (Wold Chamberlain Field)	266 (MP)	SBRAZ-DT, 298°, 3.5	(4)
WOLD CHAMBERLAIN, (Minneapolis)	278 (126.18)(142.74)	AC	(4); 116.1, 126.18, 142.74

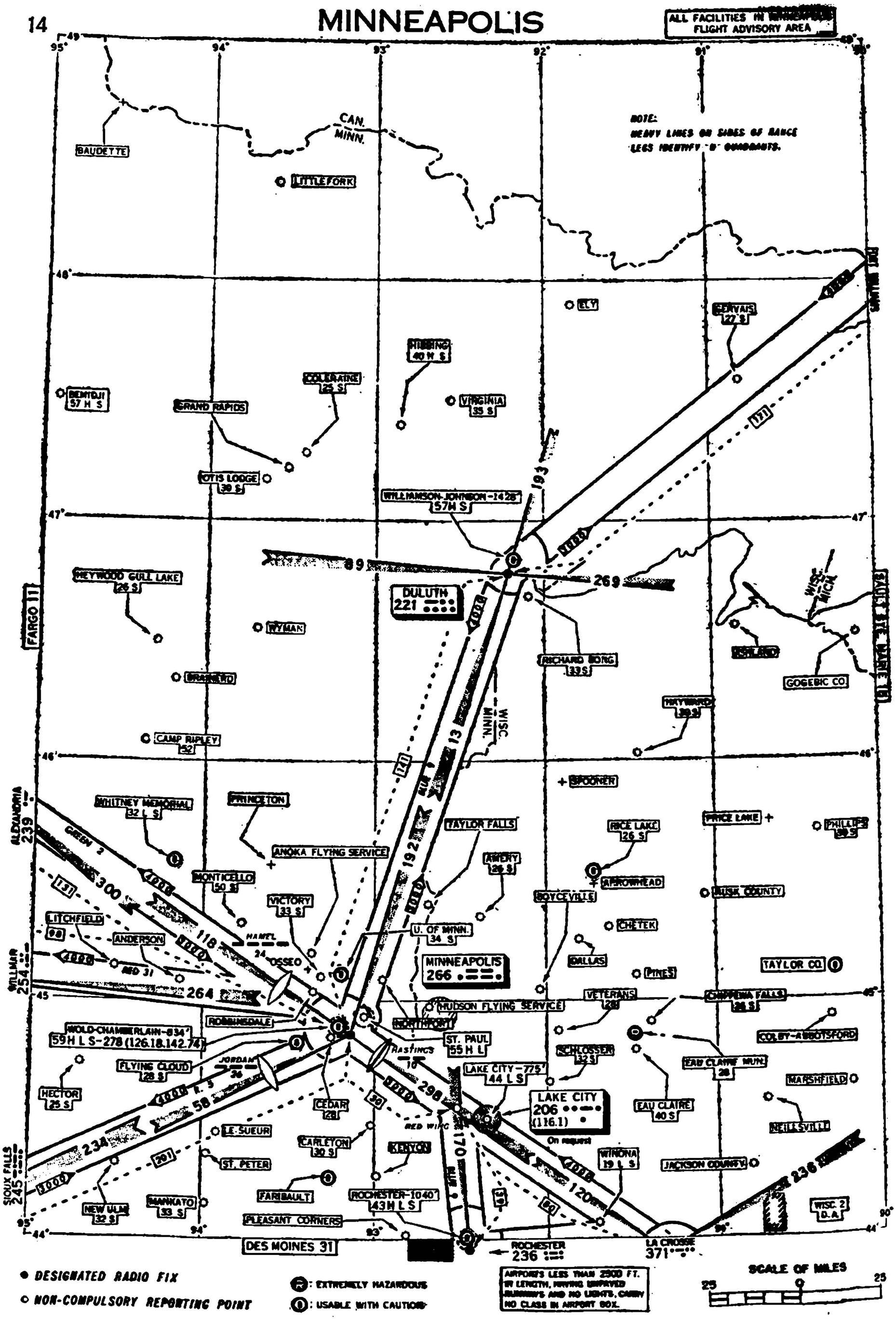
S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs. (4)-3105.4495.6210.3117.5 kcs.
Parenthesized Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MICHIGAN

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
Gogebic Co. (Ironwood)	4.5 NNE; RR S	1246	24 S4	80 oct. Soft when wet.
		MINNESOTA		
Anderson (Cokato)	2.6 ENE;RR S	1020	23 S2	80 oct. Poles S; trees W.
Anoka Flying Service	1.2 SE; riv SW	896	19 S1	80 oct. Poles NE; 629' twr SE.
Beaudette	1 N; river NE		27 S2	80 oct. Data not verified.
Bemidji	2.5 NNW; RR S	1395	57h S4	80, 91 oct. Rnwy data not verified.
Brainerd	1.3 SSE; hwy W	1210	22 S2	Ltd. 73 oct.
(R) Camp Ripley (Little Falls)(A)	7.5 N; riv E	1150	52	Tank SE corner.
(P) Carleton (Stanton)	0.7 NE; RR W	870	30 S6	80 oct. Pole lines surround fld.
Cedar (Minneapolis)	8.5 S; RR W	811	28	
Coleraine	0.9 SSE	1390	25 S1	80 oct.
Ely	1.2 E	1425	24 S2	Pole line W; trees surround fld.
Faribault	1.6 S; hwy W	1060	20 S1	80 oct. Pwr line W.
Fleming (South St. Paul) (NC)	1.8 S; riv E	822	15h	
Flying Cloud (Minneapolis)	13.8 SW; riv S	900	28 S1	80 oct. Poles SE, SW.
Gervais (Scott)	1.2 NE; hwy S	800	27 S2	80 oct.
Grand Rapids	1.5 SSE; lake NE	1293	22 S2	80 oct.
Hector	0.7 S; RR N	1100	25 S1	80 oct. Pole line W, NW, SW.
Heywood Gull Lake (Missive)	1.7 SSW; lake S	1200	26 S1	80 oct. Trees, poles surround fld.
(P) Hibbing	4.5 SE; lake NNW	1367	40h S6	80 oct.
Kenyon	0.8 S; RR E	1240	20 S1	80 oct. Pole line N, NE.
Lake City (Frontenac))	0.5 SE; RR N	775	44 R1 L3 S6	80 oct.
Le Sueur	1.1 S; riv W	900	20 S1	80 oct. Pole line SSW. Rolling.
Litchfield	1.2 NE; RR S	1140	24 S1	Ltd 80 oct. Trees W.
Littleford	1.8 WNW; riv E	1153	19 S1	80 oct. Pole line S.
Mankato	1.7 SE; hwy W	996	33 L1 S6	80 oct. Pwr line E, NE.
Monticello	1.3 NNE; road S	940	50 S6	80 oct.
New Ulm	1.8 W; RR, hwy N	1000	32 S1	80 oct. Pole line N.
Northport (White Bear Lake)	3.2 E; hwy N	1000	23 S6	80 oct.
Osseo	2 NE	875	30	Data not verified.
(P) Otis Lodge (Grand Rapids)	7.5 SW; lake S	1293	30 S1	80 oct. Pole line E.
Pleasant Corner (Dodge Center)	2 ESE; RR N, W	1050	16 S1	80 oct. Poles S, SE; trees SW.
Princeton	1 W; RR E		20 S1	80 oct. Data not verified.
Robbinsdale	0.8 NW; RR E	879	17 S6	80 oct.
ROCHESTER	1.7 SSE; RR W	1040	43h R1 L4 S6	80, 91 oct. Pole line E, W.
St. Peter	2.4 NNW; riv E	900	23	Pole line S.
Sells Flying Field (Mayer) (NC)	0.4 SSE	750	12	
Taylor Falls	1.2 W; RR S	950	23 S4	80 oct. No sto.
University of Minnesota (New Brighton)	3.8 N; hwy W	909	34 S6	80 oct. Trees E.
Victory (Minneapolis)	9 N; riv E	860	33 S6	80 oct.
Virginia	2 WSW; bet RRs	1429	35 S2	73 oct. Poles N
Waseca (NC)	0.5 S; RR NW	1150	39 S1	80 oct.Pole line E,W,E.
(P) Whitney Memorial (St. Cloud)	1.5 NNW; riv NW	1034	32 L3 S6	80 oct.
WILLIAMSON-JOHNSON (Duluth)	6.5 NNW; hwy S	1428	57h R1 L1 S6	80, 91 oct. ARPT OF ENTRY.
Simons	4.5 WNW; bet RRs	670	19 L3 S1	80 oct.
(A,E) WOLD CHAMBERLAIN (Minneapolis)	6.5 SSE; hwy S	834	59h R2 L4 S6	87-100 oct. JP-1. Rdo rec required.
Wyman (Aitkin)	1.3 N; riv S	1200	8	Poles W.
Ely	1.5 W	1337	110 S2	80 oct. Ramps;dock.
Moberg (Bemidji)(NC)	1 NNE	1350	S2	80 oct.
St. Paul	1.5 SE; riv E	704	55h L4	
		WISCONSIN		
Amery	3.4 NNW; hwy N	1100	26 S1	80 oct. Pole line SE.
Arrowhead (Rice Lake)	1.3 SE; lake SE	1147	24 S4	80 oct. Trees SE. Data not verified.
Ashland	2.5 SSE; RR E	700	22 S3	80 oct. Hi-lines NE, SW.
Boyceville	0.5 SSW; hwy W	948	24 S2	80 oct. Obsts surround fld.
Boyd's Mason Lake (Fifield) (NC)	13 WSW; lake NW	1200	26	
Chetek	1.5 SE; RR S	1050	22 S1	80 oct. Trees N, SE, NW; pole S.
Chippewa Falls	2 S; RR NW	910	26 S2	80 oct. Pole line W, NW.
Colby-Abbotsford (Colby)	1.2 NNW; RR E	1400	19 S1	80 oct.
Dallas	0.7 SSE; RR W	1100	22 S1	80 oct. Pole line S.
Eau Claire	1.5 SSE; riv NW	884	40 S6	80 oct. Obsts surround fld.
(P) Eau Claire Municipal	3.5 NNE; riv NW	885	28	
(P) Hayward	2 NE; RR NW	1200	30 S1	80 oct.
Hudson Flying Service	3.8 E; hwy N, W	850	15	Pwr line N, W.
Jackson County (Black River Falls)	2 E; RR W	855	25 S1	80 oct.
Marshfield	2.3 SSW; hwy W	1253	20 S2	80 oct.
Mellsville	5.7 W; hwy SW	1000	21 S1	80 oct. Trees around fld.
Phillips	1.2 N; riv S	1140	30 S2	80,91 oct. Pole line W, S.
Pines (Bloomer)	0.9 E; RR W	1050	16 S1	80 oct. Poles S, W.
Price Lake (Phillips)	12.5 WNW	1140	22 S1	80 oct. Data not verified.
Rice Lake	3.5 NNE; RR W	1150	26 S1	80 oct. Poles surround fld.
Richard Bong (Superior)	2.3 SW; RR E	674	33 S4	80 oct. Pole line SE. 353' twr NW.
Rusk County (Ladysmith)	2.8 SE; RR SW	1150	11 S1	80 oct.
Schlosser (Durand)	2.4 NNW; riv W	800	32 S1	80 oct.
Spooner	5 N	1072	20 S1	80 oct. Data not verified.
Veterans (Menomonie)	0.4 W; riv W	900	28	
Taylor County (Medford)	2 SE	400	19 S2	80 oct. Pole line N; bldg W, NE.
Manier (Marcel) (NC)	0.5 E	1300	30	Trees around lake.
Scenic Airways(Little Falls) (NC)	0.5 N	1110	35 S1	80 oct. Ramps;beach.Poles S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii) (NC)-Not charted.

MINNEAPOLIS



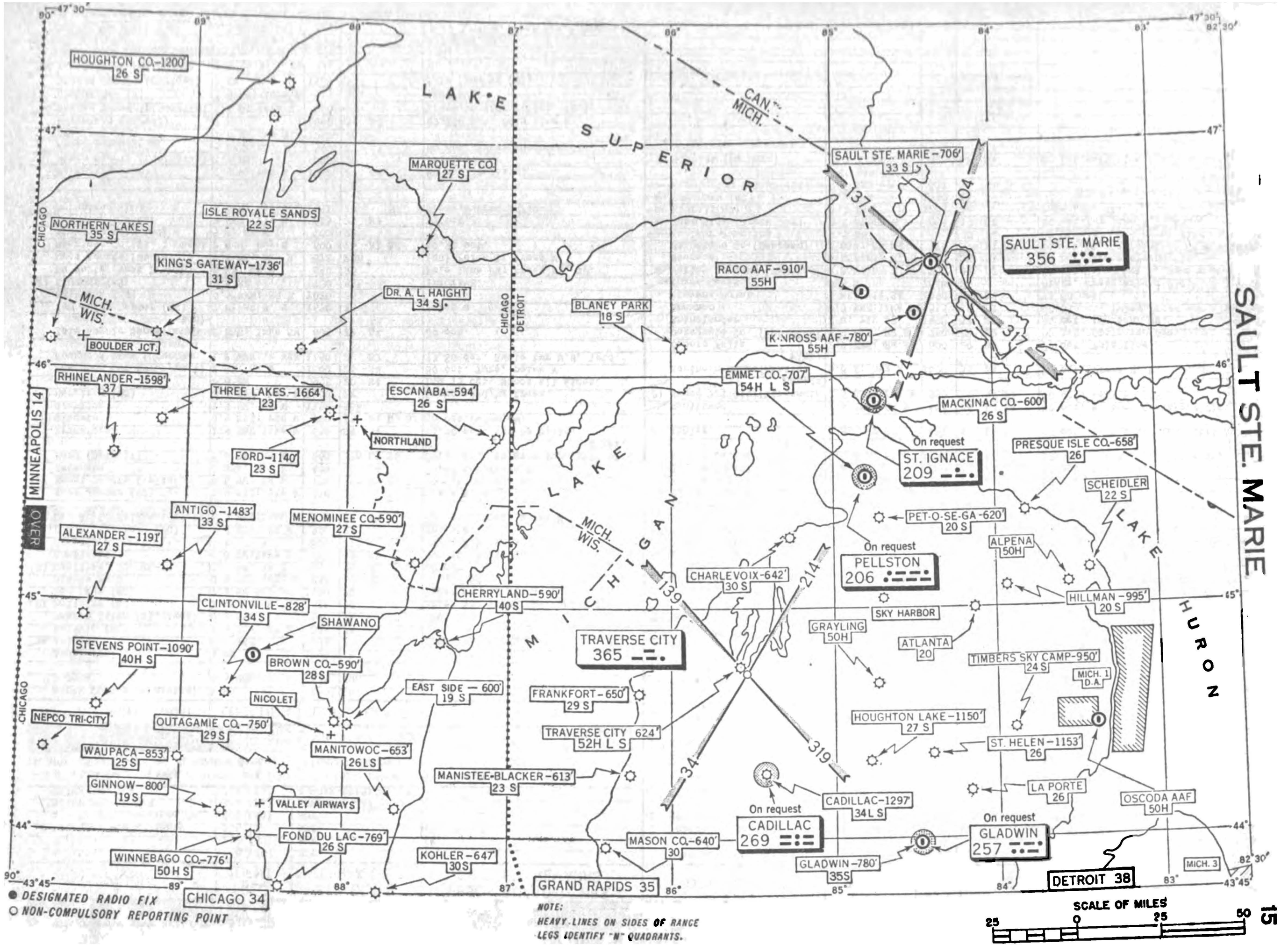
● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

(R): EXTREMELY HAZARDOUS

(I): USABLE WITH CAUTION

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING IMPROVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.


HOUGHTON CO.-1200'
26 S
ISLE ROYALE SANDS
22 S
MARQUETTE CO.
27 S
NORTHERN LAKES
35 S
KING'S GATEWAY-1736'
31 S
DR. A. L. HAIGHT
34 S
BOULDER JCT.
MICH.
WIS.
CHICAGO
DETROIT
BLANEY PARK
18 S
LAKE SUPERIOR
CAN.
MICH.
SAULT STE. MARIE-706'
33 S
137
204
SAULT STE. MARIE
356
RACO AAF-910'
55H
K.I. SAWYER AAF-780'
55H
31
24
EMMET CO.-707'
54H L S
MACKINAC CO.-600'
26 S
On request
ST. IGNACE
209
PRESQUE ISLE CO.-658'
26
SCHEIDLER
22 S
PET-O-SE-GA-620'
20 S
On request
PELLSTON
206
ALPENA
50H
HILLMAN-995'
20 S
SKY HARBOR
GRAYLING
50H
ATLANTA
20
TIMBERS SKY CAMP-950'
24 S
MICH. 1
D.A.
HOUGHTON LAKE-1150'
27 S
ST. HELEN-1153'
26
LA PORTE
26
OSCODA AAF
50H
On request
GLADWIN
257
DETROIT 38
MICH. 3
LAKE HURON
SAULT STE. MARIE
MINNEAPOLIS 14
OVER
RHINELANDER-1598'
37
THREE LAKES.-1664'
23
FORD-1140'
23 S
ESCANABA-594'
26 S
NORTHLAND
ANTIGO-1483'
33 S
ALEXANDER-1191'
27 S
MENOMINEE CO.-590'
27 S
CLINTONVILLE-828'
34 S
CHERRYLAND-590'
40 S
SHAWANO
STEVENS POINT-1090'
40H S
BROWN CO.-590'
28 S
NICOLET
EAST SIDE-600'
19 S
NEPCO TRI-CITY
OUTAGAMIE CO.-750'
29 S
WAUPACA-853'
25 S
MANITOWOC-653'
26 L S
GINNOW-800'
19 S
VALLEY AIRWAYS
FOND DU LAC-769'
26 S
WINNEBAGO CO.-776'
50 H S
KOHLER-647'
30 S
CHICAGO 34
MICHIGAN
MICH.
WIS.
TRAVERSE CITY
365
CHARLEVOIX-642'
30 S
139
214
FRANKFORT-650'
29 S
TRAVERSE CITY 624'
52H L S
MANISTEE-BLACKER-613'
23 S
34
319
MASON CO.-640'
30
GRAND RAPIDS 35
On request
CADILLAC
269
CADILLAC-1297'
34 L S
GLADWIN-780'
35 S
90°
89°
88°
87°
86°
85°
84°
83°
82°30'
47°30'
47°
46°
45°
44°
43°45'
65°
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "N" QUADRANTS.
SCALE OF MILES
25
0
25
50

RADIO — MICHIGAN

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CADILLAC	269 (XK)	MHT	(4)
GLADWIN	257 (GU)	MHT	(4)
PELLSTON(Emmet County)	206 (PJ)	MHT	(4) (6-22)
ST. IGNACE (Mackinac Co.)	209 (SO)	MHT	(4)
SAULT STE. MARIE	356 (VC)	SBMRA-DT(317°,2.3)	(4)
TRAVERSE CITY	365 (TQ)	SBMRAZ-DT(319°,2.3)	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alger County (Munising)	4 SSE; hwy E	850	24	Twr N; woods all sides.
Alpena	6.5 WNW; RR E	685	50h	
Ansas (NC)	4 NW	1560	14	Not maintained.
Atlanta	0.8 ESE	875	20	Trees N, NW, W.
Baldwin (NC)	1.3 SSE; RR W	835	25	
Beaver Island(St.James)	4.2 SSW	620	35	(NC)
(P) Bellaire (NC)	1 NE; RR W,S	614	30	Poles SE; trees surround fld.
Big Lake (NC)	7.3 SW Barege	1100	20	Trees on all sides.
Blaney Park	0.5 NW; lake N	850	18 S1	80,100 oct.
(P) Cadillac, 23, TL-TG	2.5 NW; RR E	1297	34 R1 L3 S4	80 oct.
Charlevoix	0.8 SW;lake NW	642	30 S1	80 oct. Poles W, NW, E.
Doherty (Clare)(NC)	1 NE	840	21	Poles S;NE cor. rough.
D.A.R. (Benton) (NC)	1.9 WSW; RR N	900	22	Poles N.
(R) Dr. A. L. Haight (Crystal Falls)	1.3 ENE;lake E	1390	34 S4	80 oct. Trees, bldgs W.
East Jordan (NC)	1.9 SSE; riv W	640	26	Trees E, W.
(P) Emmet County (Pellston)	0.6 NW; RR E	707	54h R1 L3 S1	80 oct. Beacon on req.
Escanaba	2 SSW; hwy E	594	26 S4	73,80 oct.Trees E.
Ford (Detroit)	8.8 SW; RR N	600	37h L5 S6	80,91 oct. No svcg Sun. ARPT OF ENTRY.
Frankfort	1.9 ESE;lake W	650	29 S1	73,80 oct. Sur by hills.
(P) Gladwin	0.5 SSE; riv W	780	35 R1 L3 S1	80 oct.Poles NW.
Grayling	1.3 NW; RR W	1152	50h	
Harrison (NC)	2.3 NNW; hwy E	1100	22	Surrounded by trees.
Hillman	2.8 NW	1995	20 S1	Ltd 73 oct. Woods all sides.
Houghton County(Calumet)	2 SE; RR W	1200	26 S4	80 oct. Twrs, poles W.
Houghton Lake (Houghton Heights)	1.2 WNW;lk NNE	1150	27 S2	73,80 oct. Radio twr W,N, lgtd.
Isle Royale Sands(Houghton)	2 ESE; lake SW	605	22 S4	80 oct.
Ishpeming-Dexter (NC)	7 W; RR N, S	1570	25	Poles N.
Kalkaska (NC)	0.5 WNW; RR E	1020	26	
(A) Kinross (A)	2.5 SE	780	55h	INACTIVE.
La Forte (West Branch)	6 SE; RR W	890	26	Pole line NW; trees NE, SW.
Luce County (Newberry)	4.1 SE; hwy S	872	20h	(NC) Poles S; trees W.
Mackinac Co.(St. Ignace)	2 NNW; hwy E	600	26 R1 S2	80,91 oct.
Mackinaw City (NC)	5 S; RR W	700	22	
Manistee-Blacker	4 ENE; riv S	615	23 S2	73 oct.
Marenisco (NC)	1.6 E; hwy N	1551	20	Trees surround fld.
Marquette County	7.9 W; hwy S	1412	27 S2	80 oct. Poles W.
Mason County (Ludington)	1.7 ENE	640	30	Poles S.
Menominee County	5 NNE; bay E	590	27 S1	80 oct. Trees surround fld.
Mio (NC)	1.6 N; hwy W	1050	26	
Northland (Norway)	2 W	1060	33 S3	80,100 oct. Pole line N.
Norway Township(Loretto)	2.4 S; lake N	860	21	Trees on side strips. (NC)
(A) Oscoda AAP (A)	3.5 NW; lake E	605	50h	INACTIVE.
Otsego County (Gaylord)	1 SW; RR E	1384	30	Pole line NE (NC)
Pet-O-Se-Ga (Wildwood)	1.8 NW;lake NW	620	20 S2	80 oct.
Poseikie's (Harbor Beach)	2.5 W; rd S	670	18	(NC)
Au Gres (NC)	0.9 NNW;hwy S	590	20	Poles NE,SW.
Calvin Campbell Mun.	0.8 SE;RR,hwy W	602	20	Pole line N,trees E,W,S(Indian Riv

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Presque Isle (Rogers City)	0.7 SSE; hwy E	658	26 S2	No fuel
Prickett (Sidnaw)	0.5 N; RR SE	1300	18	Use caution.
(A) Raco AAP (A)	4 NNW; RR W	910	55h	INACTIVE.
Roscommon (NC)	2.5 SE;RR NE	1100	42	Pole line S.
St. Helena	0.9 SE; RR NE	1151	26	
(P) Sault Ste. Marie	1 SSW; hwy E	706	36 R1 L3 S4	80,91 oct. All lgts prior req. ARPT OF ENTRY.
Schneider (Alpena)	6.3 N; hwy NW	590	22 S1	80 oct.Pole lines N,SW.
(P) Schoolcraft County (Manistique)(NC)	3.3 NNE;lake S	678	31	Approaches 5:1
Steuben (Manistique)(NC)	20 NW	850	18	Woods all sides.
Timbers Sky Camp (South Branch)	0.2 NE; riv E	990	24 S1	80 oct.
(P) Traverse City	2.1 SE; RR NE	624	52h R1 L5 S6	80,91 oct.
Watersmeet (NC)	1.5 NNE;RR SSE	1581	24	Poles SE.
Sky Harbor (Gaylord)(NC)	1 WNW;RR N	1355	26 S1	73,80 oct.Pole line S.
Onaway (NC)	0.6 WNE;RR S	770	24	Trees SW,NW,SE.
Petosky-Harbor Spr(Petosky)	4.5 NE;hwy E,W	620	20	Pole line,ridges E,W. (NC)
Roscommon Co.(Prudenville)	4.5 N;riv N	1150	24	Trees sur fld (NC)

WISCONSIN

Alexander (Wausau)	2.5 S; riv SW	1191	27 L4 S4	73,80 oct. Lgts prior req.
(P) Antigo	2 ENE; hwy N	1483	33 S2	80,91 oct.
Arbor-Vitae (NC)	2.9 W; RR S	1600	22	Pole line E, N.
Brown County(Green Bay)	2.2 WSW; hwy SE	590	28 S6	80,91 oct. Pole line NE,SE,S.
(P) Cherryland (Sturgeon Bay)	2 WNW; bay E	590	40 S2	80 oct, Pole line W, S.
Clintonville	1 ESE; RR SW	828	34 S6	80,91 oct.No sto,Pole line SW.
Eagle River (NC)	1.3 NW; riv NW	1675	32	
Fon du Lac	2.6 ENE;lk NNW	769	26 S2	80 oct. 50' hi-line N.
Ginnow (Omro)	3 N; RR E	800	19 S2	80 oct. Trees SW.
King's Gateway (Land O'Lakes)	0.5 SSE; RR W	1736	31 S2	80 oct. Twr NE; pole line NW.
(P) Kohler	1 N; hwy S	647	30 L4 S6	80 oct. Lgts prior req. Obst sur fld.
Manitowoc	1.6 NNW; RR W	653	26 L3 S4	80 oct. No bcn. Obsts sur fld.
(P) Nepco Tri City(Wisconsin Rapids)	2.5 SSW; riv W	950	36 L2 S2	80 oct. Lgts on req.
Northern Lakes(Manitowish)	6.8 E; hwy N	1600	35 S1	80 oct. Trees E, W.
Oconto Falls	2.7 ENE; RR S	600	20 S1	80 oct. Pole line N.
Outagamie Co. (Appleton)	2.2 ENE; RR S	750	29 S2	80 oct. Obsts sur fld.
Rhinelander	2 W; riv SE	1598	37 S2	80 oct. 10' bank NE.
Shawano	2.3 ENE;lake NE	813	19 S2	80,91 oct. Poles,trees sur fld.
Stevens Point	3 NE; riv SE	1090	40h S6	73,80 oct.
Three Lakes	0.5 S	1664	23	Bldgs, trees around fld.
Valley Airways (Neenah)	4 SSW; RR E	750	21 S2	80 oct Pole line E. Data unverified.
Waupaca	4 ESE;riv N, E	853	25 S1	80 oct. Trees around fld.
Winnebago Co.(Oshkosh)	2 SSW; RR NE	776	50h L1 S4	80 oct.No sto,Poleline NE,N,W.Rnwys
Boulder Junction	1.5 NW		38 S1	80,91 oct. Data unverified. unver.
East Side (Green Bay)	1.8 SE;RR S	600	19 S1	80 oct.Pwr line N,NE,NW.
Merrill(NC)	1.2 NNW	1285	22	Pole line NE.
Tomahawk (NC)	0.5 WNW	1450	15	
Washington Island (NC)	0.6 NNE of Detroit Harbor	600	24	
Nicolet (De Pere)	1.5 S;RR E	620	22 S4	80 oct.Pole line E,W.Data unverified.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii)(NC)-Not charted.

RADIO

MAINE

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA	221(AW)(116.1)	BMRLZ-VDT;81°,2	(4);116.1
BANGOR (Dow)	239(BB)(116.1)	SBRAZ-VDT;172°,2.1	(4);116.1
DOW (Bangor)	278(126.18)	AC (ILS)	(4);118.7,131.9,126.18
EAST CORINTH FM	(- - - -)	FM,352°,13.5	Bangor
HOULTON	272(HJ)(116.1)	BMRLZ-VDT;195°,3.1	(4);116.1
LIMESTONE FM	(-)	FM, 57°,22.3	Presque Isle
MILLINOCKET	344(MT)(116.1)	SBRAZ-VDT;292°,1.6	(4);116.1
PRESQUE ISLE	388(ZQ)	SBRAZ-DT	(4)
Presque Isle AAF	278 (126.18)	AC(ILS);189°,3.4	(4);388,365,116.1, 140.1,131.9,126.18
Presque Isle AAF	365 (RU)	SBMLZ; 9°,3.8	(4)

VERMONT

BURLINGTON	323(JG)(116.1)	SBRAZ-VDT	(4);116.1
GRANDE ISLE FM	(- - - -)	FM, 349°,15	Burlington
HUNTINGTON FM	(- -)	FM, 151°,17	Burlington
MONTPELIER (Barre-Montpelier)	257(UV)(116.1)	BMRLZ-VDT;230°,2.8	(4);116.1
VERGENNES FM	(- - -)	FM,210°, 25.4	Burlington
Burlington Airport	278	C,151°,2.8	(4)

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
DOW, ME.	109.9		150° Mag.	IM	(.06)	MM	(.89)	OM	(4.80)
						MMK		OMK	
PRESQUE ISLE AAF, ME.	109.9		10° Mag.	IM	(.05)	MM	(1.00)	OM	(5.00)
						MMK 201	(1.00)	OMK 219	(5.00)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
AUGUSTA	1.5 WNW; hwy S	354	34h R1 L5 S6	80,91 oct.Fld lgts prior req.
Andover (NC)	2.5 S; hwy E	675	14	1125' hill, pole E.
Bar Harbor	9 NW; hwy W	87	45h S6	80 oct.
Bethel	1.6 NW; RR E	660	20 S1	80 oct.
Belfast	1 SW; hwy E	160	40h S4	80 oct. No sto.
Bishop (LaGrange)	0.8 N; RR W	360	20	WSW,ENE blocked.
Caribou	1 NW; hwy E	623	35h S6	80 oct.No sto.Bldg E.ARPT OF ENTRY
Deblois Flight Strip	2 SE; riv W,N	219	40h	
(P) Dexter	3 ESE; rd N,S	485	30h S2	80 oct.
Doanes (Brewer)	1.6 S; RR W	100	15 S5	80 oct. Poles NNE; trees SE.
DOW (Bangor)	2 W; RR S	160	70h R3 L6	INACTIVE.
Eastport	1.5 WNW;hwy NE	70	28h S1	80 oct. Pole line NW.
Fryeburg Airpark	1.3 E; RR S	400	20 S2	80 oct. Pole line S.
Greenlaw (Auburn)	1.8 W; hwy S	238	14 S6	80 oct. Bldg S.
Greenville	2 ENE	1750	30h L3 S1	80 oct.
Guertin (Lewiston)	1 NE	220	12 S2	87 oct. Trees,poles SSW.
HOULTON	2.5 E	474	57h R1	
" Flying Service	2.2 N; RR SW	380	14 S1	80 oct. Trees NNE.
LEWISTOWN-AUBURN(Auburn)	4.5 SW; RR W	290	45h L5 S4	80,91 oct.
Maheux (Minot)	3.5 NNW;hwy NE	720	18 S6	80 oct. Trees SSE.
Millinocket	0.5 SE; hwy W	404	50h R1 L5 S1	91 oct. Fld lgts prior req.
Newport	1.5 ESE; hwy N	280	21 S1	Ltd 80 oct. Pole line N.
Norridgewock	3.7 W;riv NE,W	270	40h	Trees ENE.
Norway	1 N; RR S	387	18 S1	80 oct. Pole line SE.
Old Town	1.8 NNW;riv N	109	40h L3 S5	80 oct.
Pittsfield	0.7 SSE;hwy E	190	40h S6	80 oct. Sand pile, bldg E.
Pittston	1.8 ENE; RR W	140	18	NW,SW,S blocked.
(A) PRESQUE ISLE AAF (A)	1.5 WNW; RR E	517	68h R3 L6 S6	91,100 oct. No sto.ARPT OF ENTRY
Princeton	1.5 SSE; hwyNE	250	40h	
Rangeley	1.6 NNW;hwy S	1810	15	
Raymond's (Phillips)	0.8 S; riv E	556	15 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii)(NC)-Not charted.

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Rockland	3 SSE; rd NE	49	45h L5 S6	80,91 oct. No sto.
Rollins (Turner)	2.5 NNW; rd E	335	20 S6	80 oct.
Roy L.Fernald(Winterport)	3 WNW; hwy S	182	40h L3 S1	80 oct. Lgts prior req.
Tomlinson (Skowhegan)	1 NNE; riv S	240	28 S6	80 oct. Poles S, NW.
Waterville	1.8 SW; riv E	303	40h L5 S6	80,91 oct.Fld lgts prior req.
Weston (Madison)(NC)	1 N; riv W	300	19	Poles WSW.
‡Eagle Lake (NC)	3.8 N	574	70 S1	80 oct. Obsts.
‡Eastport (NC)	1 W	S.L.	Unl	Ramp.
‡Fryeburg (NC)	1 E	358	120	Trees encircle lake.
‡Heart of Maine (Dexter)	0.5 N	433	40	Buoys;boat. Trees N,S,W. (NC)
‡Holden Pond (East Holden)	1.1 NNE	200	50 S1	73 oct. Ramp;dock. (NC)
‡Inland Fish&Game(Winthrop)	2.7 NNE	212	127 S1	80 oct. Buoys;beach;float. (NC)
‡Moose Hd Lake(Greenville)	0.6 NNW	1028	50 S4	91 oct. Ramp. (NC)
‡Portage (NC)	0.4 WSW	609	160 S1	80 oct. Beach;boat.
‡Shinn Pond (NC)	0.7 NE	900	60 S1	80 oct. Buoys;beach;wharf. Obsts.
‡Squaw Mt.Inn(Greenv'l Jct)	1.5 N	1028	52	Buoy;boat;beach;float. (NC)
‡Tomlinson (Madison)(NC)	6.8 NE	330	130	Boat;beach;ramp.
Farmington	4 N;rd W	465	19 S2	80 oct.Data unverified.

NEW HAMPSHIRE

Berlin	7.5 N; riv W	1140	52h S3	80,91 oct.No sto.
Dean Memorial(Haverhill)	4.1 NE; RR W	570	15 S1	80 oct. Trees N, NW.
Lancaster Airpark	0.3 N; riv W		20 S1	80 oct. Data not verified
Lewis (Littleton)	2.5 E; RR S	900	18 S6	80 oct. No sto.
Twin Mountain (NC)	0.8 SW; RR N	1430	18 S1	80 oct.
White Mtn. (North Conway)	1.9 SSE	540	23 S4	80 oct. Trees W, NW.
Whitefield	3 ESE; RR N	1030	24 S1	73 oct.

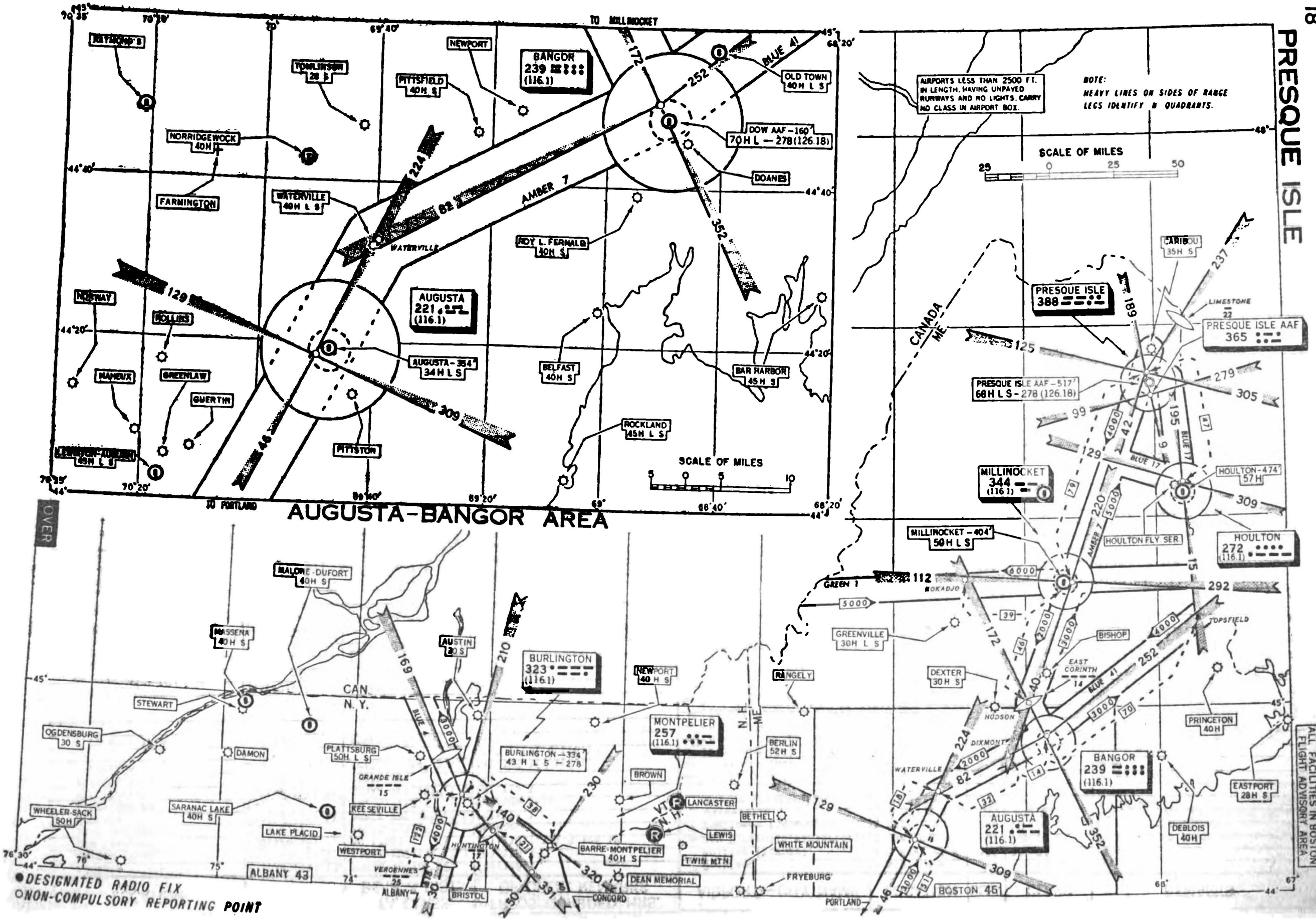
NEW YORK

Bradley (Watertown) (NC)	2.2 N; RR E,W	435	18	Rough. Pole line W, SW.
Damon (Potsdam)	1.5 E;riv,RR W	466	19 S1	80 oct. Pole line N.
Keeseville	1.4 S; riv W	490	20	Pole W.
Lake Placid	2 SE; RR NW	1750	21 S1	80 oct.
(P) Malone-Dufort	2 W; RR N	790	40h S1	80 oct. ARPT OF ENTRY.
Marcy (Keene)(NC)	2.5 S; hwy E	1000	18	Mtn N, S.
(P) Massena	2.2 E; riv SE	200	40h L1 S6	80 oct. Bcn on req. Trees WSW.
Ogdensburg	1.5 SE; RR W	285	30 S6	80 oct. ARPT OF ENTRY.
(P) Plattsburg, mun	3.4 WSW;riv W	375	50h L5 S1	80,91 oct.
" old (NC)	1 N; RR W, SW	105	17	Use in emerg. PRIVATE.
(P) Saranac Lake	5.3 NW; RR NW	1655	40 L1 S1	80 oct. Bcn on prior req.
Stewart (Massena)	2.1 SE; RR NE	210	20	
Tupper Lake (NC)	1 E; RR NW	1680	8	Use strips only.
Westport	2 S; RR W	285	22 S2	80 oct.
Wheeler-Sack(Great Bend)	1 NNW; riv S	680	50h	

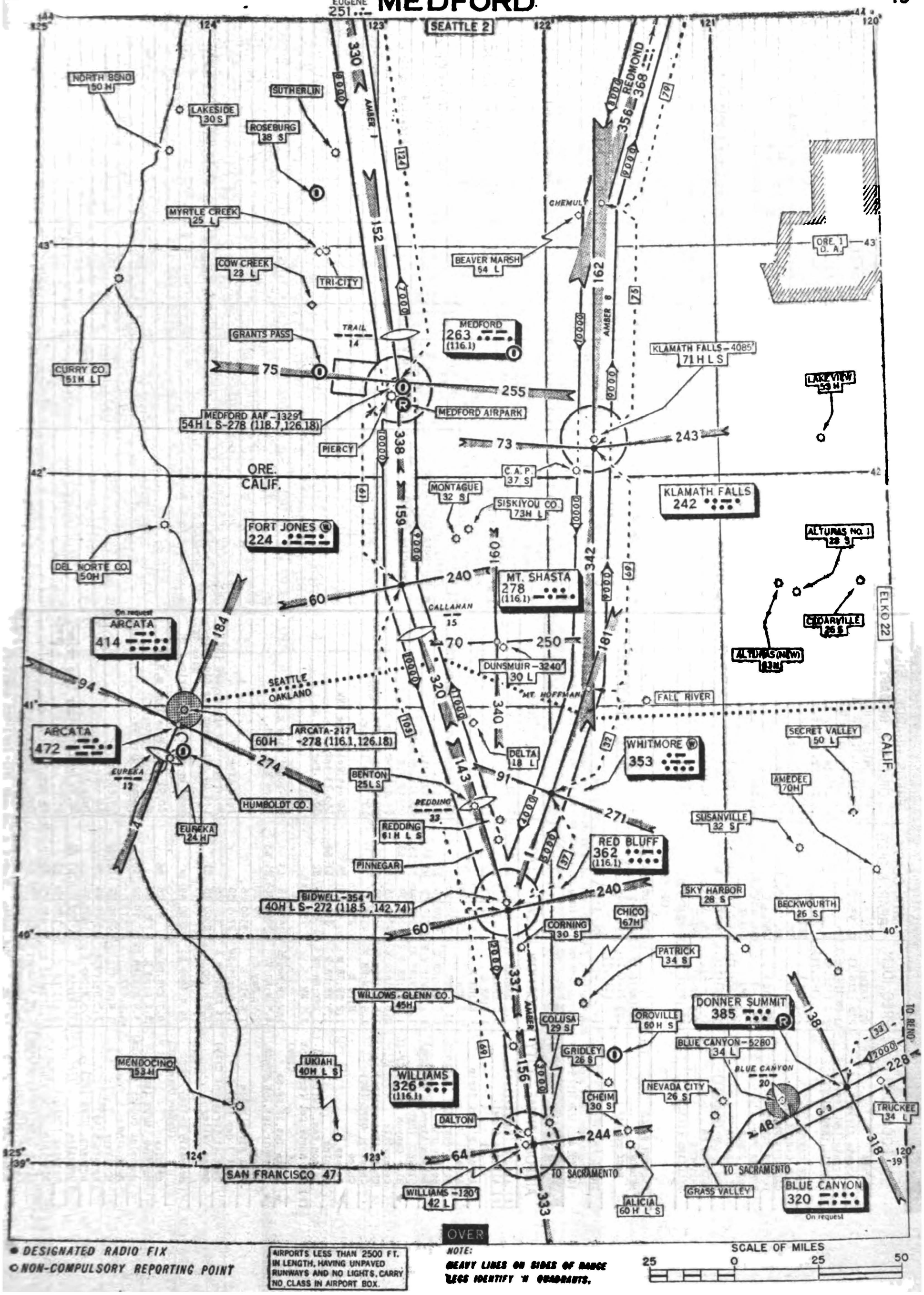
VERMONT

Austin (Swanton)	1.7 NE; RR W	235	30 S6	80 oct. No sto. ARPT OF ENTRY.
BARRE-MONTPELIER(Berlin)	0.8 SE	1149	40h R1 L5 S2	80,91 oct.
Bristol	0.7 W; riv SE	570	22 S6	80 oct. 1680' mtn SE.
Brown (St. Johnsbury)	5.2 N; RR E	807	23 S2	80 oct. Hills W, SW.
BURLINGTON	3 E; lake N	334	43h R2 L5 S6	80,91 oct. ARPT OF ENTRY.
Newport	3 SSW; RR E	930	40h L2 S1	Ltd 80 oct. All lgts prior req.

PRESQUE ISLE



MEDFORD


EUGENE 251
SEATTLE 2
MEDFORD
263 (116.1)
NORTH BEND 50 M
LAKESIDE 30 S
SUTHERLIN
ROSEBURG 38 S
MYRTLE CREEK 25 L
COW CREEK 28 L
TRI-CITY
GRANTS PASS
CURRY CO. 51H L
MEDFORD AAF – 1329'
54H L S-278 (118.7,126.18)
PIERCY
MEDFORD AIRPARK
TRAIL 14
CHEMULT
BEAVER MARSH 54 L
REDMOND 368
356
330
AMBER 1
152
162
AMBER 6
ORE. 1 O. A.
KLAMATH FALLS – 4085'
71 H L S
LAKEVIEW 59 H
ORE.
CALIF.
FORT JONES 224
DEL NORTE CO. 50H
MONTAGUE 32 S
SISKIYOU CO. 73H L
C.A.P. 37 S
KLAMATH FALLS 242
ALTURAS NO. 1 28 S
CEDARVILLE 26 S
ALTURAS (NEW) 83H
ELKO 22
MT. SHASTA 278 (116.1)
CALLAHAN 15
DUNSMUIR – 3240' 30 L
MT. HOFFMAN
FALL RIVER
On request
ARCATA 414
ARCATA 472
ARCATA-217' 60H -278 (116.1,126.18)
SEATTLE OAKLAND
EUREKA 12
HUMBOLDT CO.
EUREKA 24 H
BENTON 25 L S
REDDING 33
REDDING 61 H L S
PINNEGAR
BIDWELL-354' 40H L S-272 (118.5, 142.74)
DELTA 18 L
WHITMORE 353
SECRET VALLEY 50 L
AMEDEE 70H
SUSANVILLE 32 S
RED BLUFF 362 (116.1)
SKY HARBOR 28 S
BECKWOURTH 26 S
CHICO 67H
CORNING 30 S
PATRICK 34 S
WILLOWS-GLENN CO. 45H
COLUSA 29 S
OROVILLE 60 H S
DONNER SUMMIT 385
BLUE CANYON – 5280 34 L
GRIDLEY 26 S
BLUE CANYON 20
NEVADA CITY 26 S
TRUCKEE 34 L
MENDOCINO 53H
UKIAH 40H L S
WILLIAMS 326 (116.1)
CHEIM 30 S
DALTON
SAN FRANCISCO 47
WILLIAMS – 120' 42 L
TO SACRAMENTO
GRASS VALLEY
ALICIA 60 H L S
BLUE CANYON 320
On request
TO RENO
CALIF.
OVER
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'A' QUADRANTS.
SCALE OF MILES
25 0 25 50

RADIO

CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCATA	472 (NZM)	MRL	(4) Operated by U.A.L.
Arcata Airport	278 (116.1)	C, 40°, 3	(3); 116.1,126.18 (8-17) U.A.L.
Arcata (MH fac.)	414 (MZL)(126.18	MH	(4) Operated by U.A.L.
BIDWELL (Red Bluff)	272 (118.5) (142.74)	C	(4):126.18.142.74 116.1 on req. (6-22).Tr.on 116.1,126.18 on rec
BLUE CANYON	320 (EC)	MHT	(4)
BLUE CANYON FM	(- - -)	FM, 228°,19.5	Donner Summit
CALLAHAN FM	(- -)	FM, 140°, 15.1	Mt. Jones
DONNER SUMMIT	385 (DS)	MRLWZ-T	(4)
EUREKA FM	(- - -)	FM, 184°,11.7	Arcata.
FORT JONES	224 (FJ)	SBRAWZ	
MT. SHASTA	278 (SC)(116.1)	SBRAZ-VDT, 116°,2.2	(4). 116.1
RED BLUFF (Bidwell)	362(PH)(116.1)	SBRAZ-VDT,323°,2.5	(3) 116.1
REDDING FM	(- - - -)	FM, 323°,33.2	Red B. off.
WHITMORE	353 (AWH)	MRLWZ	
WILLIAMS (Int.)	326(WS)(116.1	SBRAZ-VDT,244°,2.2	(4); 116.1
OREGON			
KLAMATH FALLS	242 (PS)	SBRAZ-DT,342°,2.7	(4)
MEDFORD	263(MF)(116.1)	SBRAZ-VDT	(4); 116.1
Medford AAF	278 (126.18) (118.7)	AC; 158°, 2.4	(4);142.74,131.9,126.18,118.7
TRAIL FM	(- - - -)	FM, 332°, 14	Medford

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
(P) Alicia (Marysville)	3.2 SSE;RR W,E	63	60h L5 S6	80,91 oct;100 oct on req.
(P) Alturas (new) #1	6.8 WNW;riv S	5034	63h	
Amedee Flight Strip	1 W;RR S	4391	28 S6	80 oct.
Arcata	4 SE;RR N	4007	70h	
Ash Creek,USFS (McCloud)	7.6 NNW	217	60h R2	
Beckwourth	11.2 ENE	3850	30	Clsd Dec-May.Trees SE,NW (NC)
Benton Airpark(Redding)	0.8 ENE;RR S	4900	26 S6	73 oct.
BIDWELL (RED BLUFF)	1.1 WSW;riv E	719	25 L3 S4	73,80 oct.
★ Blue Canyon Int,13,SP-SL	1.7 SSW;RR E	354	40h R2 L5 S1	80,91,100 oct.
Cedarville	1.1NNE;RR S,E	5280	34 R1 L3	Obsts N,E.
Cheim (Marysville)	0.6 S;lake E	4260	26 S2	80 oct.Pwr line E.
Chester, USFS (NC)	1.5 NE;hwy S	67	30 S6	80,91 oct.No sto.Levee N,NE.
Chico	1.5 SSW;RR N	4525	31	18' pole line W.
Colusa	5 N;rd E	250	67h	
Corning	1.2 SW;RR W	47	29 S4	80 oct.Pole line NNW
Dalton Com. (Williams)	1.3 NE;RR W	300	30 L1 S2	Ltd 73 oct.
(P) Del Norte Co. (Crescent City)	1 ENE;RR SW	80	26 S2	80 oct.Pwr line S.
★ Delta Int,22,SP-SA	2.5 NW	57	50h	
★ Dunsmuir Int,25B,SP-SA	1SW;RR,hwy N	1320	18 L3	800-1000' mtns E,W
Eureka	4.5 N;RR W	3240	30 R1 L3	Poles E,N,lgtd.
Fall River Mills	2 W; Bay E	20	24h	
Fort Jones (NC)	1 N;riv E	3300	26	
Gasquet (Crescent City)	1.5 W;riv SW	2745	30	Pole line NW
Grass Valley	13 ENE;hwy S	390	25	Hazardous-bad appch.USFS (NC)
Gravelly Valley, USFS (Upper Lake)(NC)	0.8 W;hwy N	2600	18 S1	Ltd 80 oct.Trees sur fld.Pole line NE.
Gridley	20 N;lake S	2000	49	Road crosses NE/SW strip.
Heyfork, USFS (NC)	0.7 ENE;RR W	97	26 S6	80,91 oct. Pole line N,S.
Humboldt County (Eureka)	1.2 E;rd N	2350	23	Pole line W,mts E.
Mendocino	3.4 ENE;RR SW	10	20 S4	80 oct.Poles NW.
Montague	4.9 SSE	572	53h	
Nevada City	1 W;RR N	2520	32 L1 S2	73,80 oct.
Orleans, USFS (NC)	1.5 NW;rd S	3060	26 S4	80 oct.
Oroville	0.5 W;hwy S	493	14	Pole lines NE.
Patrick (Chico)	3 SW;riv E	199	60h L3 S1	80,91 oct.Port.rnwy lgts prior req.
Pinnegar (Anderson)	2 SSE;RR E	189	34 S6	80,91 oct. Poles N.
‡Clear Lake (Lakeport)(NC)	1 S;canal E	435	23 S1	73 oct.
Ranchaero(Chico)	E of Lakeport	1329	Unl S1	Fuel. Buoy.
	2.2 WSW;riv W	170	22 S4	80,91 oct. hwy NE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii) (NC)-Not charted.

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
Ravendale (NC)	0.2 N;RR W	5260	18	
Redding	7.5 SE;riv S	500	61h L3 S1	
Round Valley (Covelo)(NC)	0.8 SW;hwy E	1385	30	
★ Secret Valley Int,52,	3.6 ESE Karlo	4435	50 L3	RV-ND
(P) Siskiyou Co. (Montague)	4.3 NE;RR W	2647	73h L5	
Sky Harbor (Quincy)	2.5 E;RR N	3400	28 S2	73 oct.Poles S.
Susanville	6.5 SE;hwy SW	4150	32 S6	73 oct.Pwr line N.
★ Truckee Int,16B,SP-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec-Apr.
Ukiah	1 S;RR E	612	40h L5 S4	80 oct. No sto.
Weaverville, USPS (NC)	1 SSE; hwy E	2040	22	30' poles S.
★ Williams Int,9,SP-SA	4 S;RR E	120	42 R1 L3	
Willows-Glenn Co.	1.3 WSW;RR E	130	45h L1	
Willits	1.3 ENE;RR W.	1356	20 S1	80 oct.Trees E,pole line W.
OREGON				
★ Beaver Marsh Int,73,RV-ND	6.2 SSW Chemult	4630	54 L3	
Civil Air Patrol (Worden)	1 S;RR NW	4080	37 S6	80 oct.No sto.Pwr line NNE.
Grants Pass	1.6 N;RR W	1050	20 S5	73,80 oct.Poles,trees,N.
★ Cow Creek Int,37B,SP-SA	2.5 ENE Glendale	1429	23 L3	Creek S.
(P) Curry Co. (Denmark)	3.8 WSW	214	51h L5	Fld lgts prior req.
Illinois Valley Landing Fld (Cave Junction)	4.3 SSW;riv 1E	1350	43	Tree NNE.USPS. (NC)
Klamath Falls	4.9 SSE;RR NE	4085	71h R1 L5 S1	80,91,100 oct.
Lakeside	0.25 NE;hwy W	20	30 S4	80 oct.No sto.Pole line S.
Lakeview	3.5 SW;RR E	4728	53h	
(A,N) MEDFORD AAF (A)	3.2 N;RR E	1329	54h R2 L5 S4	73-100 oct.JP-1.Pole Line NE.
Medford Airpark	2.3 SE;RR W	1430	20 S6	80 oct. No storage.
★ Myrtle Int,39A,SP-SA	4 SW;riv,RR W	700	25 L3	Hill N.
(P) North Bend	1.2 WNW;bay NE	17	50h	
Piercy (Medford)	2.6 NW;RR E	1325	20 S4	80 oct.No storage.Poles SE.
★ Roseburg Int,41A,SP-SA	2.4 NNW;RR E	500	38 S6	80,91 oct. No storage.
Sutherlin Sky Ranch	3.8 ENE;rd E,S	575	18	
Tri-City (Riddle)	3.5 NE;RR N,W	700	19	Pole line N,S;cattle on fld.

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOISE (Gowen)	350 (BE)	SBRAZ-DT,110°,2.5	(4)
EAGLE FM	(- - - -)	FM, 321°, 11.5	Boise
GOWEN (Boise)	278(126.18) (118.3)	C	(4), 140.1,131.9,126.18, 118.3
MOUNTAIN HOME FM	(- -)	FM, 110°, 41	Boise

NEVADA

BATTLE MTN.	281(BP)(116.1)	BMRLZ-VDT, 301°, 5.5	(4), 116.1
CARLIN FM	(- - -)	FM, 230°, 19	Elko
DEETH FM	(-)	FM, 39°, 30.5	Elko
ELKO	391(EL)(116.1)	SBRAPZ-VDT, 200°, 0.8	(4), 116.1
FALLON NAAS	230 (VA)	SBRAZ-DT,219°,2.9	(4) Not manned cont.
HUMBOLDT (Int.)	209(HD)(116.1)	BMRLZ-VDT 228°, 2.6	(4);116.1
RENO (Hubbard)	254(RP)(116.1)	SBRAZ-VDT 161, 3.3	(4), 116.1
WADSWORTH FM	(-)	FM, 48°, 27	Reno

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bennett Flight Strip (Anderson Dam)	2.7 S,RR SW	4700	18	Pole line ENE.
Boise Airpark	1.8 WNW,RR S	2660	25 S6	73,80 oct.Trees SSE, NNW.
Bradley (Boise)	3.3 WNW,riv NE	2637	30 S6	80,91 oct.Trees SE.
Caldwell	1.3 W,RR N	2370	32 S6	80 oct.Trees NW,bldg NE.
Emmett	2.6 SW, RR NW	2300	28 S2	73 oct.
Floating Feather (Eagle)	2 E,hwy W	2635	38 S4	80 oct.Soft when wet.
Glenns Ferry	1.3 WSW,riv S	2556	34 S1	Ltd 80 oct.
(A) GOWEN (Boise)(A)	4.5 SSW	2857	77h R2	INACTIVE.
(A) Mountain Home AAF	10.7 WSW	3004	100h	INACTIVE. (A)
" Site 25,SL-PO	2 WSW	3240	48 L3	
Nyssa Arpk.(Parma)	6.1 NNW,RR W	2200	28 S4	80 oct.No sto.
Parma	0.6 SSE,RR NE	2225	23 S2	80 oct.25' poles NW.
Ritchey (Nampa)	2 E,hwy N	2535	28 L3 S6	73 oct.No ben.Lgts prior req.

NEVADA

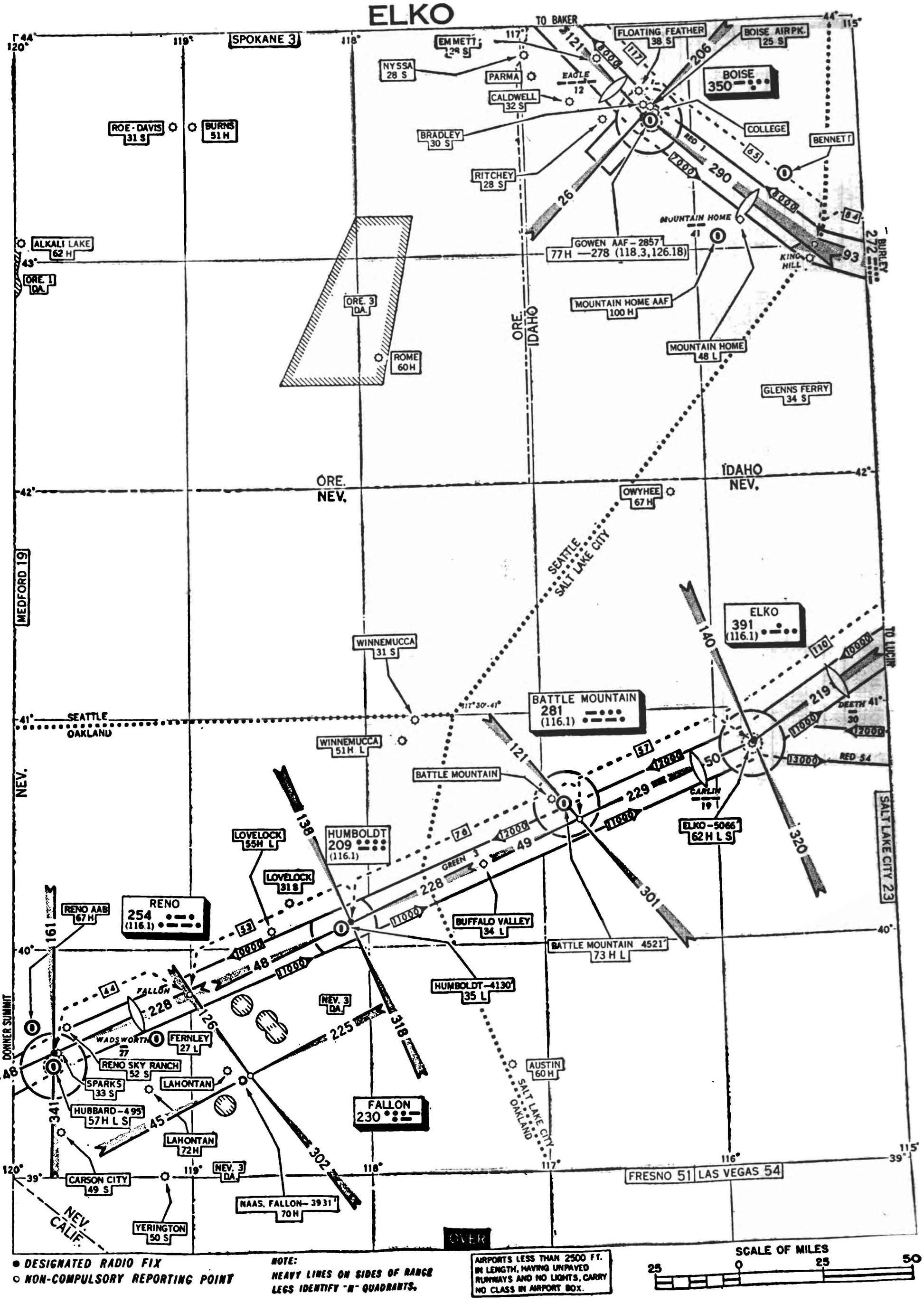
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Austin	7 WSW,riv NW	5730	60h	
Battle Mtn.	1.5 WSW,hwy N	4521	24 S2	73, 91 oct.
(P) " Flgt Strip,35, SF-SL	4 SE,RR N	4521	73h R1 L3	
★ Buffalo Valley Int, 32, SF-SL	15 W Bailey	4664	34 L2	
Carson City	3.1 NE,hwy W	4684	49 S6	80 oct.Mts N,hill W.
ELKO	1.8 W,RR S	5066	62h R1 L5 S4	73, 91 oct.
★ Fernley Int,22,SF-SL	3.3 E,hwy NW	4156	27 L2	
(N) Fallon NAAS (N)	6 SE,hwy S	3931	70h R1 L5	
HUBBARD (Reno)	3.4 SE,RR N	4395	57h R1 L5 S4	80,91 oct.Fld lgts prior req.
★ Humboldt Int,28B, SF-SL	14 S Rochester	4131	35 R1 L3	
Lahontan (Fallon)	1.4 SSW,hwy N	4000	24 S4	80 oct.Poles ENE,WSW
" Flgt Strip	15.5 S,hwy N	4279	72h	(Fernley)
Lovelock	1.5 ENE,riv W	3986	31 S2	80 oct.
(P) " Site 26,SF-SL	9 SSW,RR NW	3906	55h L5	
Orovada (NC)	1.2 W,hwy E	4300	32	
Owyhee Flight Stp.	4.8 W	5379	67h	
(A) Reno AAB (A)	10.5 NNW,RR SW	5018	76h	INACTIVE.Mts sur fld
Reno Sky Ranch (Sparks)	8.5 NNE,hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
Sparks Airpark	0.6 N,RR S	4400	33 S6	80,91 oct.Poleline W.
Winnemucca	1 NE,RR NW	4303	31 S4	73 oct.
(P) " Site 32A,SF-SL	6 SW,RR N	4303	51h L5	
Yerington	1.2 N,RR W	4483	50 S1	73 oct.

OREGON

Alkali Lake Flgt Strip	7.5 N	4313	62h	
Burns	5.1 E	4140	51h L5	Contact lgts prior req
Roe Davis (Burns)	0.6 WSW,RR SE	4165	31 S6	80 oct.
Rome Flgt Strip	26.6 SW,hwy E	4050	60h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not charted.

ELKO



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

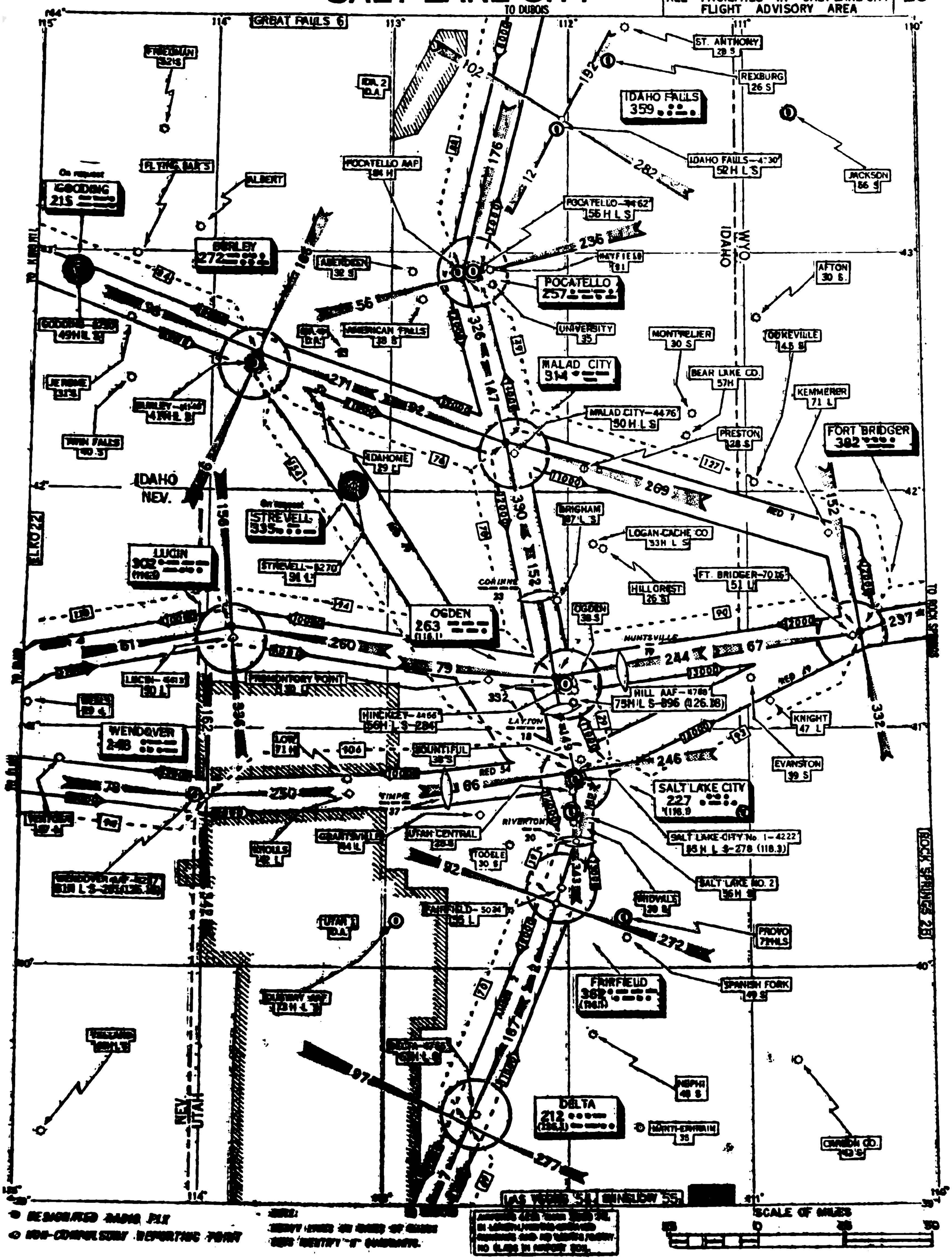
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
25 0 25 50

SALT LAKE CITY

ALL FACILITIES IN SALT LAKE CITY FLIGHT ADVISORY AREA



SALT LAKE CITY

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURLEY	272 (BX)	SBRAPZ-DT,200°,2.7	(4)
GOODING (new)	215 (GG)	MHT	(4)
IDAHO FALLS (Mun.)	359 (IF)	SBMRAZ-DT,192°,2.6	(4)
MALAD CITY (Int.)	314 (WT)	SBRAZ-DT,131°,3.4	(4)
POCATELLO	257 (PQ)	BMRLZ-DT, 56°, 2.5	(4)
STREVELL (Int.)	335 (TV)	MHP	(4)

UTAH

CORINNE FM	(- - - -)	FM, 332°, 23	Ogden
DELTA	212 (VZ)(116.1)	SBRAZ-VDT, 7°,3.6	(4); 116.1
FAIRFIELD (Int.)	362 (JL)(116.1)	BMRLZ-VDT, 2°, 4.4	(4); 116.1
HILL, OGDEN	396 (126.18)	CA	(4); 126.18
HUNTSVILLE FM	(-)	FM, 640, 19	Ogden
LAYTON FM	(- - - -)	FM, 329°, 18	Salt Lake City
LUCIN (Int.)	302 (JB)(116.1)	BMRLZ-VDP,156°,2.4	(4); 116.1
OGDEN (Robert H. Hinckley)	263 (OG)(116.1)	SBRAZ-VDT,107°,3.4	(4); 116.1
RIVERTON FM	(- -)	FM, 163°, 19.5	Salt Lake City
ROBERT H. HINCKLSY,(Ogden)	284	CI	(4);(8:30-2130. Mon.&Tues. (1130-2130)
SALT LAKE CITY	227 (SL)(116.1)	SBRAZ-VDTX	(4); 116.1
Salt Lake City Arpt.#1	278 (118.3)	C; 163°, 3	(4); 131.9.118.3.126.1M. others on req.
TIMPIE FM	(- - -)	FM, 246°, 37	Salt Lake City
WENDOVER	248 (WV)	SBMRAZ-DT	(4)
Wendover Field	201 (126.18)	CA; 258°, 2.2	(3):126.18 (8-22. other hrs. on 24 hrs advance notice)

WYOMING

FORT BRIDGER (Int.)	382 (HM)	SBRAZ-DT,228°,2.4	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen	2.7 SW;rd W	4460	32 S6	73 oct. No sto.
Albert,(Richfield)	5.2 NE;RR W	4400	23 S2	Ltd 80 oct.
American Falls	2 NE;RR NW	4404	38 S1	73 oct. Poles S.
Arco (NC)	1.5 ESE;hwy W	5330	26	Hills NE.
Bear Lake Co. (Paris)	3.3 ENE;riv NE	5928	57h	
Buhl (NC)	5.7 W;crk W,E	3690	41	
Burley	1.3 ENE;RR SW	4149	41h R1 L5 S4	80,91 oct.Pole line WNW.
Flying Bar "S" (Shoshone)	4.6 NNW;riv S	3900	12 S1	73 oct.
Friedman (Hailey)	0.8 S;RR E	5300	52 S1	73 oct.
Gooding (new)	3.5 WSW;hwy N	3730	49h R1 L5 S6	73 oct.
Gooding (old)	4 SSW	3570	20	
Tyhee,(Hayfield)	2 SE;RR W	4600	31	
IDAHO FALLS	2 NW;riv,RR E	4730	52h R1 L3 S6	80,91 oct.Polelines S,NE.
★ Idahome Int,13,SL-PO	0.8 NNE	4460	29 L3	
Jerome	3.3 ENE	3980	31 S1	73 oct.
MacKay (NC)	0.8 SE;RR NE	5900	30	Rough.
★ Malad City Int,9,SL-GT	2.6 NNE;hwy S	5900	30 R1 L3 S1	73 oct.Hills,trees S,SW,NE.
POCATELLO	5.8 NW;RR S	4462	56h R1 L5 S6	80,91 oct.
(A) " AAF (A)	8.1 WNW	4445	84h	INACTIVE.
Preston	1.7 WNW;riv W	4800	28 S2	80 oct.
Rexburg	0.8 S;RR NW	4900	26 S4	80 oct.Rolling. No sto.
St.Anthony	1.1 SSE;RR W	4955	28 S1	73 oct.Poles,trees NNE.
★ Strevell Int,10, SL-PO	0.3 NNW;hwy W,S	5270	31 R1 L2	
Thousand Springs (Hagerman) (NC)	4.5 SSE;riv N	3000	30	

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Twin Falls	6.5 S;creek N	4200	40 S6	80,91 oct.No sto.
University (Ham's)(Pocatello)	1 ENE;hwy W	4600	35 S2	Hills N,S.No fuel.
Victor (Bennett Fld)(NC)	0.8 SE;hwy W	6198	25	UNUSABLE.

NEVADA

★	Ventosa Int,48,SF-SL	0.5 N;RR S	5600	27 L3
★	Wells Int,46B,SF-SL	1.5 S;rd W	5665	29 L2
	Yelland (Ely)	3.5 NNE;hwy E	6258	60h L3 S6

UTAH

	Bountiful Sky Haven	2.6 WSW;rd E	4222	38 S4
	Brigham	3 NW;RR S	4220	37 L3 S6
	Carbon County (Price)	2.8 E;RR W	5800	43 S6
	Delta	4.8 ENE;hwy NW	4755	61h R1 L5 S2
(A)	Dugway (Tooele)(A)	41.5 SW;hwy E	4338	73h L5 S4
	Duchesne (NC)	2.2 NNE;riv W	5700	55
★	Fairfield Int,59,LA-SL	6 NE;RR SE	5024	55 R1 L3
★	Grantsville Int,60,SF-SL	3 N;RR E	4229	44 L3
(A)	Hill (Ogden)(A)	6.5 S	4788	75h R1 L5 S6
	Hillcrest (Logan)	2.7 NE;RR W	4780	26 S6
(P)	HINCKLEY (Ogden)	3.5 SW;RR NW	4455	56h R2 L5 S6
★	Knolls Int,56,SF-SL	5 ENE;RR S	4360	42 L3
	Logan-Cache Co.(Logan)	4 NNW;RR E	4460	53h L5 S6
	Low Flight Strip	11.8 W;hwy S	4241	71h
★	Lucin Int,52,Ogden Cut-off, SF-SL	3.5 E;RR S	4413	50 R1 L3
	Manti-Ephraim (Ephraim) (NC)	2.8 SW;RR SE	5500	35 S2
	Midvale	3 WSW;RR NW	4500	20 S4
	Mt. Pleasant (NC)	1.5 SSW;RR NW	5857	48 S2
	Myton (NC)	1 E;riv N	5090	31
	Nephi	2.5 NW;RR E	4800	48 S1
	Ogden Airpark	4 S;hwy NE	4700	31 S4
★	Promontory Point Int,3, SL-PO	0.5 W;RR S,E	4280	30 L3
(P)	Provo	2.8 WSW;RR N	4490	71h L5 S6
	SALT LAKE CITY #1	2.5 WNW;RR S	4222	55h R2 L6 S6
	" No. 2	10.5 SSW;RR W	4617	56h S4
	Spanish Fork	2 NW;RR SE	4560	49 S6
	Tooele (NC)	1.4 WSW;RR W	4800	30 S4
	Utah Central (Salt Lake City)	4 SW;RR N	4240	28 S4
(A)	Wendover (A)	0.5 S;RR N	4237	81h R2 L5 S6

WYOMING

	Afton	0.3 SW;hwy E	6239	30 S5	73,80 oct. 40' trees N.
	Cokeville	2.5 SSW;riv E	6250	45 S1	Ltd 73 oct.
	Evanston	3.6 SSW	6800	39 S1	73 oct,200'hill SSE.
★	Fort Bridger Int,9,SL-OH	5 N	7016	51 R1 L3	Carter 3 mi NNW.
	Jackson	9 N;riv W	6400	56 S1	73 oct.
★	Kemmerer Int,B17,BX-RT	1.5 NNW;RR S	7276	71 L3	
★	Knight Int,6,SL-OH	5 S;riv NNE	7615	47 L3	
→	Big Piney (NC)	2 N	6900	37	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page x111)(NC)-Not charted.

RADIO — COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
EAGLE (6 mi. ENE Eagle)	108.3 (EQ) 111.1 (116.1)	VAR-VDT	4495,3117.5,116.1 only.
GRAND JUNCTION (12.7 mi. SW of Walker Field)	108.7 (EJ) 111.1 (116.1)	VAR-VDT (ILS)	3105,4495,3117.5;131.7, 116.1 only.
WYOMING			
CASPER (Wardwell Field)	269 (CW)	SBRAZ-DT,263°,2	(4)
DOUGLAS (Int.)	251 (DQ)	HT	(4)
LARAMIE (Gen'l. Brees Field)	245 (LR)	SBMRAZ-DT, 137°, 2.2	(4)
MIDWEST FM	(- - - -)	FM, 339°, 15.1	Casper
PT.OF ROCKS FM	(-)	FM, 66°, 15.4	Rock Springs
ROCK SPRINGS (new)	290(RT)(116.1)	SBRAZ-VDT, 246°,2.8	(4); 116.1
SILVER CROWN FM	(- - -)	FM, 282°, 12	Cheyenne
SINCLAIR (Int.)	209(XP)(116.1)	SBMRAZ-VDT, 80°, 1.7	(4): 116.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WALKER, COLO.	110.3 .·--	335	110°Mag	IM	MM ····· (.69)	OM -- (4.52)	
					MMK	OMK	

S–Simultaneous Range and Voice; W–Without Voice; Z–VHF Station Location Marker at Range Station; (3)–3105,4495,6210 kcs., (4)–3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — COLORADO

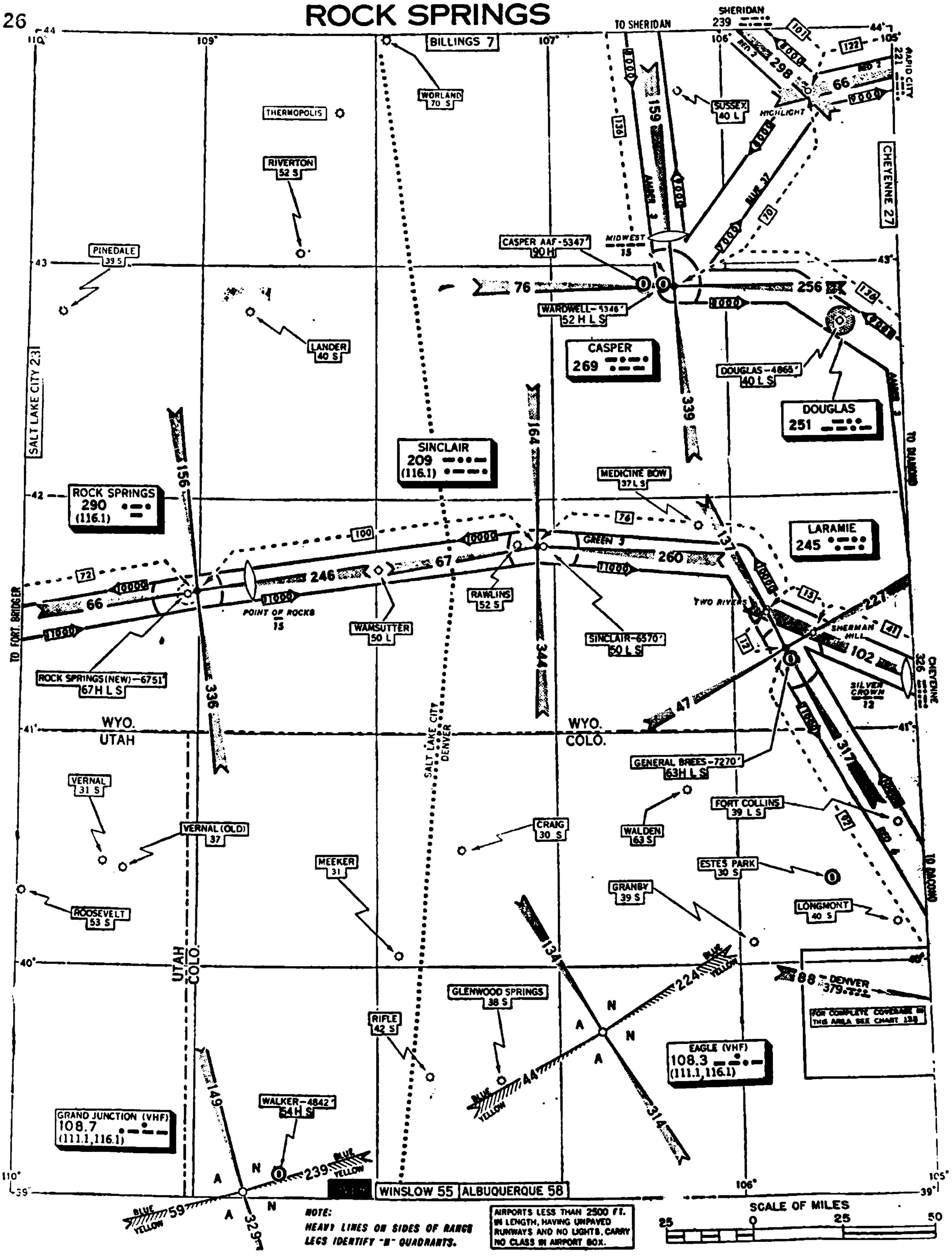
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Craig	1.8 SE;riv N	6300	30 S6	80, 91 oct.
Estes Park	2 SE;riv N	7635	30 S1	80,91 oct.Trees S.
(P) Ft.Collins,5,DV-LR	4 WNW;rd S	5150	39 L2 S6	73,80 oct.Poles SE.
Glenwood Sprgs.	2 S	5900	38 S1	73 oct.
Granby	1 ENE;riv W	8200	39 S1	80 oct.Poleline E.
Leadville (NC)	3 NNW;hwy E	10,000	45	
Longmont	2.9 W;RR N	5030'	40 S6	80,91 oct.Trees NW.
Meeker	1.3 E;hwy S	6300	31	
Rifle	3.3 E;riv N	5400	42 S1	80 oct.
Teter (Fairplay)	3 SSE;hwy E	9700	67	(NC)
Walden	1.5 N;hwy W	8250	63 S1	80 oct.
(P) WALKER (Grand Junction)	2.8 NNE;rd W	4842	54h R L3 S6	80,91 oct.
UTAH				
Roosevelt	1.3 NE;hwy S	5000	53 S2	80,91 oct.Poleline SE,E
Vernal (new)	1 SSE;hwy N,E	5280	36 S6	80,91 oct.
Vernal (old)	7 ESE;riv 4 E	5200	37	

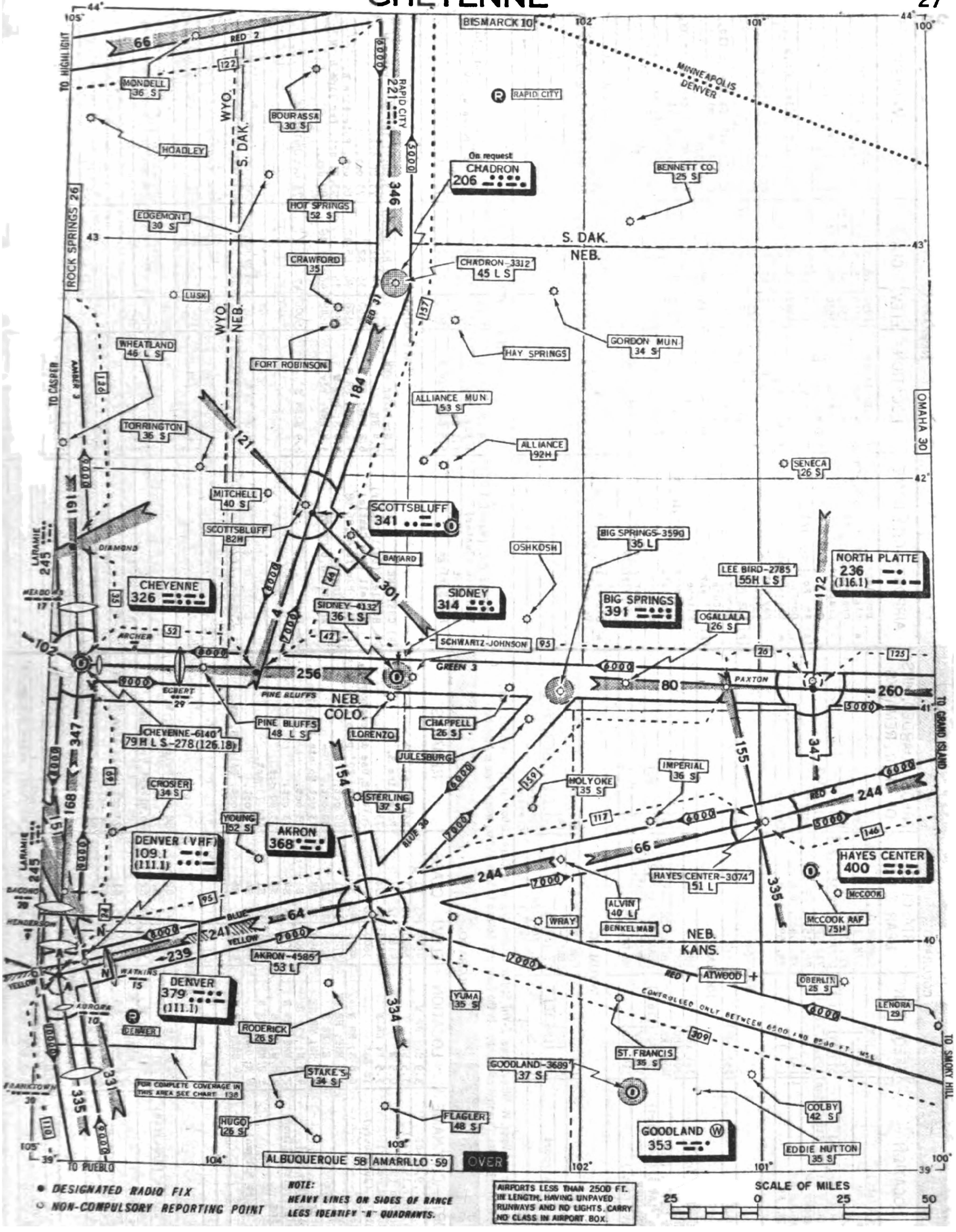
h–hard surfaced runways. R–radio facilities. L–lighting facilities. S–servicing. (see page XIII)(NC)–Not Charted.

WYOMING

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Casper AAF(A)	9 NNW;hwy SW	5347	90h	INACTIVE
* Douglas Int,11B, CX-GT	1.5 SE;RR W	4865	40 R1 L3 S1	73 oct.
General Brees (Laramie)	4 W;riv SE	7270	63h R1 L5 S6	80, 91 oct.
Lander	1.5 S;riv W	5550	40 S2	73 oct.
Medicine Bow,31, SL-OH	1.3 SE;RR N	6640	37 L3 S1	73 oct
Pinedale	5.5 SSE;hwy NE	7200	39 S2	73 oct.
Rawlins	2.3 NE;RR 1 S	6780	52 S4	80,91 oct.
Riverton	3.8 NW;hwy SW	5453	52 S4	Ltd 73 oct.
ROCK SPRINGS (new)	8.8 E;RR N	6751	67h R1 L5 S6	73,91 oct.
(P) Rock Springs (old)	3.8 NNW	6370	58	(NC)
* Sinclair Int,27, SL-OH	3.8 ENE;RR S	6570	50 R1 L3 S1	73,100 oct.
* Sussex Int,22A,CX-GT	2.5 NNE;riv 5 E	4800	40 L3	
Thermopolis	1 N; riv W	4400	33 S1	80 oct.
* Wamsutter Int,22, SL-OH	2.4 NNW;RR E	6812	50 L3	35' pole line S.
WARDWELL (Casper)	5 NNW;hwy E	5346	52h R1 L5 S6	73,91 oct.
(P) Worland (NC)	2.8 S;canal NW	4185	70 S1	80, 91 oct.

ROCK SPRINGS




TO HIGHLIGHT
66
RED 2
122
MONDELL 36 S
WYO.
S. DAK.
BOURASSA 30 S
HOADLEY
EDGEMONT 30 S
HOT SPRINGS 52 S
ROCK SPRINGS 26
43
CRAWFORD 35
LUSK
WYO.
NEB.
FORT ROBINSON
WHEATLAND 46 L S
TO CASPER
TORRINGTON 35 S
121
184
6000
RAPID CITY 221
5000
346
BISMARCK 10
102°
101°
100°
44°
RAPID CITY
MINNEAPOLIS
DENVER
On request
CHADRON 206
BENNETT CO. 25 S
S. DAK.
NEB.
43°
CHADRON-3312 45 L S
157
HAY SPRINGS
GORDON MUN. 34 S
ALLIANCE MUN. 53 S
ALLIANCE 92H
OMAHA 30
SENECA 26 S
42°
MITCHELL 40 S
SCOTTSBLUFF 82H
SCOTTSBLUFF 341
BAYARD
OSHKOSH
BIG SPRINGS-3590 35 L
LEE BIRD-2785 55H L S
NORTH PLATTE 236 (116.1)
LARAMIE 245
DIAMOND
CHEYENNE 326
SIDNEY 314
SIDNEY-4132 36 L S
BIG SPRINGS 391
OGALLALA 26 S
ARCHER
SCHWARTZ-JOHNSON
95
GREEN 3
256
ECBERT 29
PINE BLUFFS
NEB.
COLO.
PAXTON
80
260
41°
TO GRAND ISLAND
CHEYENNE-6140 79H L S-278 (126.18)
PINE BLUFFS 48 L S
LORENZO
CHAPPELL 26 S
JULESBURG
347
155
CROSIER 34 S
STERLING 37 S
IMPERIAL 36 S
MOLYOKE 35 S
YOUNG 52 S
AKRON 368
DENVER (VHF) 109.1 (111.1)
HAYES CENTER 400
HAYES CENTER-3074 51 L
McCOOK
McCOOK AAF 75H
ALVIN 40 L
BENKELMAN
WRAY
NEB.
KANS.
40°
AKRON-4585 53 L
DENVER 379 (111.1)
ATWOOD
OBERLIN 25 S
LENORA 29
YUMA 35 S
RODERICK 26 S
CONTROLLED ONLY BETWEEN 6500 AND 8500 FT. MSL
309
ST. FRANCIS 35 S
GOODLAND-3689 37 S
STAKE S. 34 S
FOR COMPLETE COVERAGE IN THIS AREA SEE CHART 138
HUGO 26 S
FLAGLER 48 S
GOODLAND 353
COLBY 42 S
EDDIE HUTTON 35 S
ALBUQUERQUE 58
AMARILLO 59
OVER
TO PUEBLO
TO SMOKY HILL
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "A" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
25 0 25 50

RADIO — COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AKRON (Int.)	368 (RN)	SBMRAZ-DT, 154°,3.6	(4)
AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DACONO FM	(. . -)	FM, 348°, 20	Denver
DENVER (Stapleton)	379(DV)(111.1)	SBMRAZ-VDTX;159°,2.5	(4);131.7
DENVER (9 mi ENE Stapleton	109.1(DV) 111.1	VAR-VDT	(4); 131.7
FRANKTOWN FM	(. . - - -)	FM, 155°, 29.6	Denver
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
WATKINS FM	(- -)	FM, 59°, 14.8	Denver
KANSAS			
GOODLAND	353 (GN)	HW-T	
NEBRASKA			
BIG SPRING (Int.)	391 (BQ)	BHT	(4)
CHADRON	206 (HC)	MHT	(4)
HAYES CENTER (Int.)	400 (KB)	SBMRAZ-DT,64°, 2.1	(4)
NORTH PLATTE (Lee Bird)	236(NQ)(116.1)	SBRAZ-VDT,352°,2.2	(4); 116.1
SCOTTSBLUFF	341 (TF)	BMRLZ-DT, 301°, 3	(4)
SIDNEY (Int.)	314 (SD)	BH-DT, 350°,0	(4)
WYOMING			
ARCHER LFM	(-)	LFM, 76°,5.6	Cheyenne
CHEYENNE	326 (CX)	SBRAZ-DT	(4)
Cheyenne Airport	278 (126.18)	C; 76°, 1	(4);116.1,131.9,126.18
EGBERT FM	(. . -)	FM, 76°, 29	Cheyenne
MEADOWS FM	(- - - -)	FM, 341°,16.8	Cheyenne

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.;Parenthetical **Numbers in the Frequency Column Indicate VHF on which Voice is Available.**

AIRPORTS — COLORADO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Akron Int.,9,DV-GI	3.9 SE; RR N	4585	53 R1 L3	
★ Alvin Int.,15,DV-GI	3.5 NNE	3600	40 L3	Rds S, N.
Burlington (NC)	0.5 W	4160	32	Pole line S, N.
Crosier (Greeley)	3.5 E; RR N	4648	34 S6	73 oct.
Doughty's (Julesburg)	12 ESE	3600	18	PRIVATE,Use in emergency.
Flagler	0.8 S; RR N	4975	48 S1	73 oct. 20' pole line E.
Holyoke	1.8 ESE; RR NW	3720	35 S1	80 oct.
Hugo	1.5 E; RR S	5034	26 S1	80 oct.
Julesburg	2.8 SW; RR SE	3490	24 S4	73 oct.No sto.Pwr line S.
Roderick (Lindon)	4.3 N; riv E	4900	26 S1	73 oct.
Stake's Prairie(Limon)	2.2 ENE; RR S	5375	34 S4	73 oct.
(P) Sterling	2.8 W; RR S	4020	37 S6	73,80 oct.
Wray	1.2 NNW; RR S	3400	30 S1	Ltd 73 oct.
Young (Fort Morgan)	6 N; hwy E	4460	52 S4	73 oct.
Yuma	1.4 SSE; RR N	4150	35 S6	73 oct. Poles S, SW.
KANSAS				
→ Colby	1.8 N; RR S	3150	42 S2	80 oct. Poles SW, W.
Eddie Hutton (Brewster)	1 SE; RR N	3420	35 S2	73 oct.
Goodland	2 NNE; hwy W	3689	37 S2	80,91 oct.Trees NW.
Lenora (NC)	1.2 NNW; hwy S	2325	29	
Oberlin	0.9 NW; RR SE	2684	25 S1	80 oct. Pole line SE, NE.
St. Francis	1 SSE; riv NW	3400	35 S2	80 oct.
→ Atwood	3 N;hwy W		26 S1	73 oct.Data unverified.
NEBRASKA				
Alliance	4.6 SE; RR N	3930	92h	
" mun	2.8 SW; RR,hwy E	3965	53 S6	80 oct.
Bayard	1.3 SSW; RR N	3760	25 S2	No fuel. Poles N,E,NW,SE

[redacted] facilities. S-servicing. (see page XIII)(NC)-Not charted.

NEBRASKA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Benkleman	1.2 NNE; RR SE	2990	28 S1	80 oct.
★ Big Springs Int,55,SL-OH	3 WNW; hwy N	3590	35 R1 L3	Pole line E.
Chadron,15,CX-[redacted]	4.8 W; hwy S	3312	45 R1 L3 S4	73 oct.
Chappell	3 E; RR SW	3830	26 L1 S2	80 oct. Pole line W.
Crawf[redacted]	3.8 NNW; hwy E	3676	35	Poles E, W.
(A) Ft. Robinson (A)	2 S; RR N	3920	18	
Gordon	1.3 E; RR N	3549	34 S4	73,80 oct. Poles N,S,W.
★ Hayes Center Int,21,DV-GI	3 ENE; rd S	3074	51 R1 L3	
Hay Springs	2.5 W; hwy E	3840	17 S2	80 oct. Pole line N.
Imperial	1 ESE; RR SW	3280	36 S4	80 oct.
(P) LEE BIRD (North Platte)	3.2 ESE; riv SW	2785	55h R1 L5 S6	73,80,91,100 oct.
Lorenzo	0.6 WNW; RR E	4400	17 S1	Ltd 73 oct. Cattle on fld.
McCook	2.2 E; RR,hwy S	2586	42 S4	80 oct. Windmill N.
(A) " AAF (A)	9 NNW; hwy E	2784	75h	INACTIVE.
Mitchell	1.6 S; riv N	3950	40 S6	73,80 oct. Trees, poles NW.
Modisett (Rushville)(NC)	2.4 NE; RR S	3475	30	Bldgs, pole line E.
Ogallala	2 W; RR S	3250	26 L1 S6	80 oct. Poles S, SE, SW.
Oshkosh	1.8 SE; riv S	3375	21 S1	Ltd 80 oct. Poles NW,NE.
Schwartz-Johnson (Sidney)	1.6 SSE; RR,hwy N	4120	32 S1	73,80,91 oct.
SCOTTSBLUFF	3.3 E; hwy S	3945	82h R1	
Seneca	2.2 NNW; riv S	3200	26 S1	Ltd 80 oct. Twr NNW.
★ Sidney Int.,50,SL-OH	3 W; RR N	4132	36 R1 L3 S1	Ltd 73,80 oct.
Valentine (NC)	1.5 SSE; hwy E	2579	18	Not maintained.Rough.PolesNE
SOUTH DAKOTA				
Bennett Co. (Martin)	4.4 SSE; riv N	3325	30 S1	73 oct. Pole line sur fld.
Bourassa (Custer)	1 ESE; hwy N	5301	30 S2	73 oct. Poles W, NW.
Edgemont	1.1 SW	3575	30 S2	73 oct.
Hot Springs	5.5 SSE; riv N	3075	52 S2	73 oct.
WYOMING				
(P) CHEYENNE	1 N; lakes WNW	6140	79h R2 L5 S6	73,80,91,100 oct. Poles W.
→ Hoadley (Dull Center)	9.4 NE	4176	24 S1	73,80 oct.
Mondell (New Castle)	6.2 WNW; RR N	4260	36 S2	73 oct.
(P) Pine Bluffs,44,SL-OH	4.2 WSW; RR S	5128	48 L3 S2	80 oct. Pole line N.
(P) Torrington	3.4 S; hwy W	4350	36 S1	73,91 oct. Pwr line S, W.
Wheatland,6,CX-GT	3.4 NNW; riv N	4648	46 L3 S6	80 oct.
→ Lusk	2.9 E;RR S	5000	47 S1	73 oct.Poles SE.

RADIO

IOWA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ATLANTIC	257 (IZ)	MRT	(4)
CALIFORNIA FM	(- - - -)	FM, 333°, 18	Omaha, Nebr.
GREENWOOD FM	(- -)	FM, 146°, 23.8	Omaha, Nebr.
HANCOCK FM	(-)	FM, 73°, 30.5	Omaha, Nebr.
SIOUX CITY	335 (YX)	SBMRLZ-DT	(4)
Sioux City Airport	396 (126.18)(118.3)	AC; 337°, 1.9	(4);131.9,126.18,118.3
SLOAN FM	(- -)	FM, 157°, 8.8	Sioux City

KANSAS

MARSHALL (Fort Riley)(Army)	215 (DFY)	SBMAZ	
Marshall Field	396 (126.18)	CA; 196°, 4	(3); 126.18
PHILLIP BILLARD (Topeka)	278	CI	(3) (sunrise-sunset)

MISSOURI

TARKIO	281 (TK)	MRT	(4)
WALDO	108.7(LO)	VARW	

NEBRASKA

GRAND ISLAND	260 (GI)(116.1)	SBMRLZ-VDT	(4); 116.1
Grand Island AAF	278 (126.18)	CA (ILS): 165°, 1.7	(3); 126.18 (7-22)
KEARNEY (Army)	536 (DKR)	HW	
Kearney AAF	396 (126.18)	CA; 130°, 5.3	(4); 126.18 (8-17)
LINCOLN	385 (HK)	SBMRLZ-DT; 170°, 2.6	(4)
MEAD FM	(- - -)	FM, 252°, 28.4	Omaha
OFFUTT (Omaha)	396 (126.18)	CA	(3); 126.18
OMAHA	320 (OH)	SBRAZ-DT	(4)
Omaha Airport	278 (126.18)	C (ILS); 146°, 0.8	(4);116.1,131.9,126.18
OVERTON	278 (OV)	MRT	(4)

SOUTH DAKOTA

SIOUX FALLS	245 (YL)	SBRAZ-DT, 93°, 2.3	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
OMAHA, NEBR.	110.3	335	135° Mag.	IM ·····(.06)	MM	OM ·–(4.90)
					MMK	OMK
GRAND ISLAND AAF, NEBR.	110.3	335	349° Mag.	IM (.08)	MM ·····(1.00)	OM ·–(4.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IOWA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Atlantic	4.6 NW; RR S	1353	21 S6	80,91 oct.
" mun	1.9 W; RR E	1153	33 R1 L3	Beacon 1/4 mi W.
Briggs (Fiscus)	4.2 NE; RR E	1370	21 S2	80 oct. Trees N.
Clarinda	0.8 SE; RR W	1060	26 S4	80 oct.
Council Bluffs	3 SE; RR S	980	37 S6	80 oct. Bldgs SW.
Denison	2.4 WSW; riv SE	1200	20 S2	80 oct. Trees SSW.
Fuller (Milford)	0.7 NNW; hwy E	1440	36 S6	80 oct. Trees, poles E,W,S.
Geisinger (Storm Lake)	0.5 N; RR E	1240	15 S2	73 oct. Poles W,E.
Harlan	5 SSW; hwy E	1196	18 S2	73 oct.
Hart (Spencer)	1.6 S; hwy N	1100	26 S4	80 oct. Pole line NE,N.
John E. Peters (Ocheyedan)	1.5 N; hwy S	1425	24 S2	80 oct. 25' pole line S.
Liberty (Sutherland)	2.1 WSW; RR W	1465	23 S6	80 oct. 35' pole line E.
Manning	0.6 SW; RR W	1327	25 S2	73 oct.
McKinlock (Rock Rapids)	3 N; riv W	1361	31 S4	80 oct. Trees W.
Missouri Valley	1.5 S; RR W	960	16 S2	80 oct.
Nicholson (Ida Grove)	1.9 WSW; RR N	1120	20 S1	80 oct.
Okobeji Airways(Spirit Lake)	2.8 SW; hwy E	1450	20 S2	80 oct. Poles NE.
Oliver Ranch (Onawa)	5 SE; hwy W	1040	26 S1	Ltd 80 oct. Trees sur fld.
Randolph (NC)	1.7 NNE; RR W	1050	20	
Red Oak	1.5 W; RR E	1044	25 S2	80 oct. Pole line N.
Sheldon	5 NNE; RR W	1444	33 S6	80 oct. Pole line S,W,SW,SE.
(A) SIOUX CITY	7 S; RR E	1097	69h R2 L5 S4	80,91 oct; 100 oct mil. acft.
(P) Spencer	2.9 WNW; RR S	1335	40 S6	80,91 oct.
Thorne (Moneta)	2.5 S	1410	25 S2	80 oct. Pole line, trees W.
(P) Western Union (Le Mars)	1.3 SW; RR SE	1190	30 S6	80 oct. Low obst.
→ Cherokee	1 S; RR W,S	1218	19 S1	80 oct.

KANSAS

Belleville	1.8 WSW; hwy S	1520	24 S2	73 oct.
Bern	0.6 S; RR N	1300	26 S1	80 oct. Pwr line N.
Blosser (Concordia)	1 SSE; hwy W	1510	26 S2	80 oct.
Clay Center	1.5 W; hwy S	1200	30 S2	80 oct. Poles S, NW.
Downs	Adj SW; RR N, NW		20 S2	80 oct. Data not verified.
Elkins (Wakefield)	1 SSE; riv NE	1170	13 S1	80 oct. Poles W.
Hiawatha	1.3 WSW; RR E	1110	24 S1	80 oct. Pwr line N.
Holton	0.9 E; RR N	1020	21	Trees N.
Huntoon (Topeka)	5.4 W; riv N	1000	18 S6	80 oct. Pwr line N.
Larkinburg	0.3 E of Holton	947	27 S2	80 oct. Bi-lines N. Data unverified.
Lawrence	2.5 NNE; hwy S	840	32 L3 S6	80 oct. No beacon. Poles W. Lgts prior req.
Manhattan	5.5 WSW; RR SE	1050	31 S6	80 oct.
Mankato	0.8 ESE; RR S	1780	22 S4	73 oct.
(A) Marshall (Ft. Riley)(A)	1.8 SE	1062	45h R2 L5 S6	73,91,100 oct. Ditch E,S.
Moritz (Beloit)	1.2 NW; RR S	1420	24 S2	73 oct. Trees E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII(NC)-Not charted.

KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Norton	0.7 NNW; hwy E	2365	52 S3	73 oct. Pole line E, S.
PHILLIP BILLARD (Topeka)	3.5 ENE; RR S	879	42h R1 L5 S6	80, 91 oct.
Phillipsburg (NC)	1.5 S; RR N	1882	33 S1	80 oct
Pottawatomie (Manhattan)	1.4 NE; RR SE	1100	20 S4	80 oct. Poles SE, NW, NE.
Seneca	0.5 W; RR S	1250	24	Poles N, E.
Smith Center	1 SSW; RR NW	1806	27 S1	80 oct.
Summerfield	0.5 SSE; RR W	1450	20 S2	80 oct. Pole line N, NW.
Wood Airpark (Clay Center)	3.5 N; hwy W	1260	15 S6	80 oct. No sta. Pole line W.

MINNESOTA

McDowell (Luverne)	8 NW; hwy W	1440	25 S4	80 oct.
Pipestone	1 SE; RR E, W	1735	20 S4	Ltd 80 oct.
Worthington	1.4 N; lake SSW	1580	26 S1	80 oct.

MISSOURI

Craig	0.6 NE; RR SW	875	25 S1	73 oct. Pole line WNW.
Tarkio 10, MC-OH	1.2 ENE; RR W	918	40 R1 L3 S4	80 oct. Trees N.

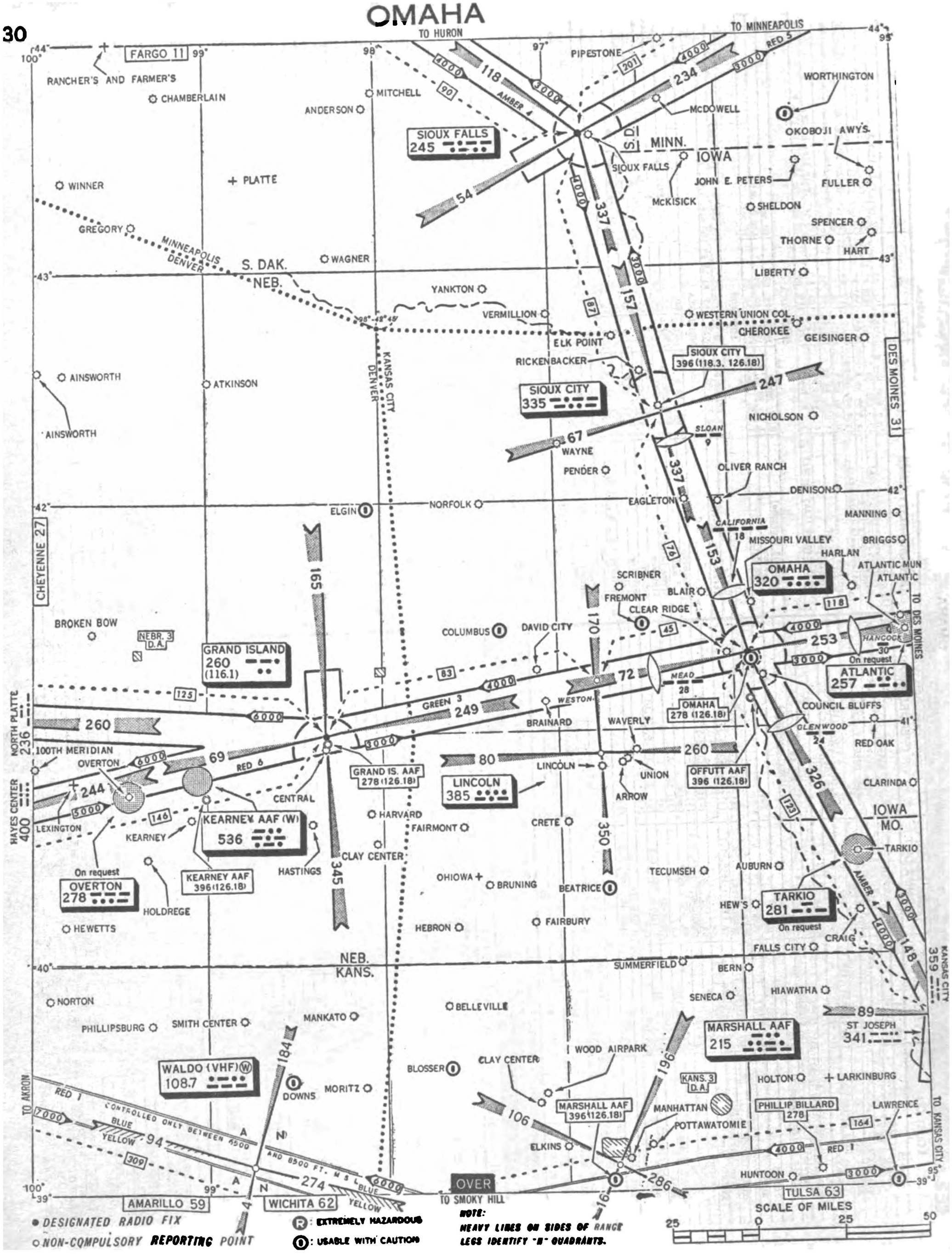
NEBRASKA

Ainsworth	7 WNW; RR S	2580	75h	
" mun	1 ENE; hwy S	2521	52 S5	80 oct. Pole line S.
Arrow (Lincoln)	4.8 NE; hwy E	1160	25 S6	73,80 oct.
Atkinson	1.4 SW; riv NE	2109	22	Trees S; pole line E,SE,N,NW.
Auburn	2.7 E; riv SW	960	29 S6	80 oct. Pole line N, NW, NE.
(P) Beatrice	3.5 N; hwy E	1260	30 S4	80 oct. Twrs S, SW.
Blair	3 NNW; RR E	1050	24 S6	80,91 oct. Windmill NW.
★ Brainard Int., 82, SL-OH	5.5 SW; hwy W	1640	31 L3	
Broken Bow	2 N	2400	30 S6	80 oct.
Bruning	7.7 E; RR N	1544	68h	
Central (Grand Island)	1.7 NE; RR S	1851	33 S6	73,80 oct. Pole lines W, S, N, E.
Clay Center	1.5 E; hwy N	1600	26 S2	73 oct.
Clear Ridge (Omaha)	5.2 NW; RR N	1230	24 S6	80 oct. Pole line E.
Columbus	1.3 NE; RR S	1445	26 S2	No fuel. Pole line SSE, SSW.
Crete	1 S; RR NE	1368	24 L3 S2	73 oct. Lgts prior req.
David City	1.5 N; hwy W	1640	22 S2	80 oct. Windmill E.
Eagleton (Decatur)	1 S; riv NE	1100	26 S2	73 oct. Poles NE; trees NW.
Elgin	0.8 SW; RR E	1930	16 S6	80 oct. Bldgs SE, N.
Fairbury	2.5 NNE; RR, hwy SE	1316	26 S6	80 oct. Pole line W, NW, S.
Fairmont (Geneva)	4.8 NE	1639	70h	
Falls City	2 SSW; riv N	910	14 S1	Ltd 80 oct. Pole line N, W.
(P) Fremont	1.4 WNW; RR's NE	1203	38h S4	80 oct. Pole line N,NE,E,SE Twr SW.
(A) Grand Island AAF (A)	3.5 NE; RR W	1843	72h R3 L5 S6	73, 91, 100 oct. Twr SW.
Harvard	2.5 NE	1817	76h	
Hastings	1.5 NW; RRs N,S	1940	35 S6	73 oct.
Hebron	1 S; RR W	1458	26 S4	80 oct. S approach 6.1; SW 10:1.
Hewett's (Beaver City)	2.5 NNE; hwy S	2300	40 S1	73 oct. Pole NNW, SSW; bldg N.
Hew's (Humboldt)	4.2 NNE; RR S	1200	13	Pwr line E.
Holdrege	2 NNE; creek S	2324	26 S4	80 oct.
Kearney	4.5 S; riv N	2145	15 S1	80 oct. Trees N; pole line E.
(A) Kearney AAF (A)	4.5 ENE; RR S	2140	73h R2 L5 S6	73,91,100 oct. No sta. JP-1.
Lincoln	5.5 NW; RR NE	1190	71h R1 L5	Fld lgts prior req.
(P) Norfolk	3 SSW; RR W riv N	1572	58h S4	73 oct.
(A) Offutt (Omaha)(A)	10 S; RR W	1046	61h R1 L5 S4	91,100 oct. No sta.
Ohiowa	3 SW	1572	20	Fence sur fld. Data unverified.
OMAHA	3.5 NE; lake W	977	54h R3 L6 S6	73,80,91,100 oct. No contact lgts.
100th Meridian (Cozed)	0.8 SW; RR N	2490	22 S1	80 oct. Pole line E.
★ Overton Int., 69, SL-OH	4.8 E; RR S	2300	40 R1 L3	Bldgs, trees NW; poles NE.
Pender	1 NE; RR SW	1400	22 S2	73 oct. Pole line S, SE.
Scribner	4.1 SSE; hwy N	1315	67h	
Steckley (Weeping Water)	3 S; RR, rd E	1260	26	Pole line N.
Tecumseh	1 W; RR NE	1115	26 S2	80 oct. Trees W; pole line N.
Union (Lincoln)	4.8 NNE; RR S	1140	18h L3 S6	80,91 oct. All lgts prior req.
(P) Wayne	1.8 E; RR N	1475	33 S4	80 oct. Pole line NW.
Waverly (Lincoln)	9 NE; RR SE	1180	20	Poles SE, SSW.
→ Lexington	1 W; RR S	2400	32 S5	Data unverified.

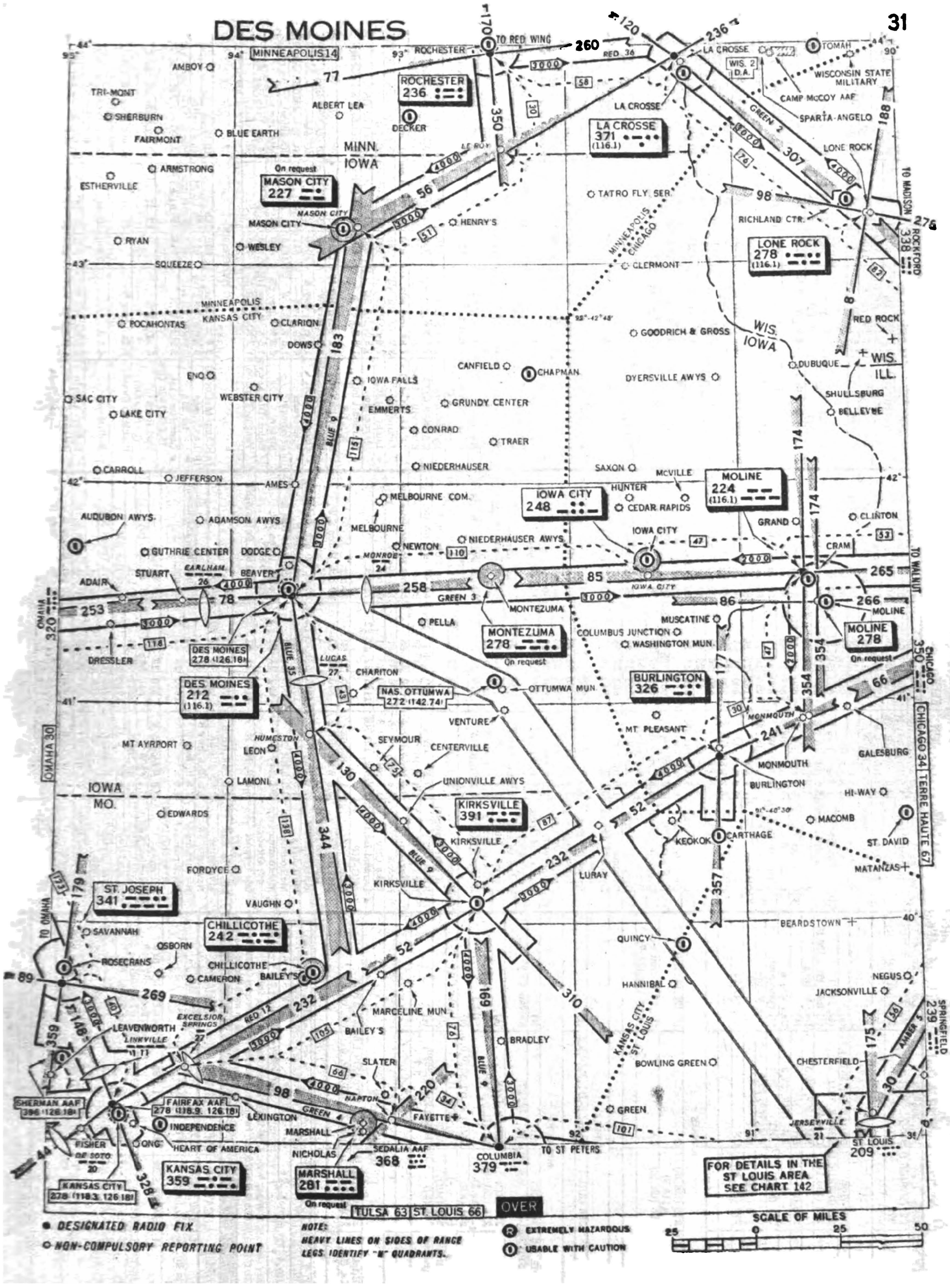
SOUTH DAKOTA

Anderson (Mitchell)	2.7 W; RR N	1293	29 S6	80 oct. Poles sur fld.
Chamberlain	3.4 SE; hwy N	1689	26 S2	73,80 oct. Poles N, NW.
Elk Point	2.4 E; riv NE	1120	26 S2	80 oct. Poles N, NW.
Gregory	2.2 S; RR NE	2000	22 S2	73 oct. Pole line E, SE.
Mitchell	4 N; hwy E	1292	67h	
→ Rancher's & Farmer's(Reliance)	9 N; rd N, S		30 S1	73 oct, Data unverified.
Rickenbacker (Stevens)	1 N; riv E	1114	28 S6	80,91 oct.
SIOUX FALLS MUNICIPAL	2.5 NNW; RR E	1420	57h R1 L5 S3	80,91 oct. Contact lgts prior req.
Vermillion	3.8 WNW; RR NE	1140	25 S4	80 oct. Poles N.
Wagner	1.3 S; RR N	1464	30 S1	73 oct. Poles E, NW.
Winner	1.3 NE; RR SW	1960	26 S6	80,91 oct.
(P) Yankton	2.3 N; hwy W	1400	37 S6	80 oct. Twr E.
→ Platte	1.4 NE	1612	24 S1	80 oct. Data not verified.

OMAHA


TO HURON
TO MINNEAPOLIS
FARGO 11
RANCHER'S AND FARMER'S
CHAMBERLAIN
MITCHELL
ANDERSON
PIPESTONE
WORTHINGTON
McDOWELL
OKOBOJI AWY'S.
SIOUX FALLS
245
S. DAK.
MINN.
IOWA
SIOUX FALLS
JOHN E. PETERS
FULLER
McKISICK
SHELDON
WINNER
PLATTE
GREGORY
MINNEAPOLIS
DENVER
WAGNER
SPENCER
THORNE
HART
LIBERTY
NEB.
YANKTON
VERMILLION
WESTERN UNION COL.
CHEROKEE
GEISINGER
ELK POINT
RICKENBACKER
SIOUX CITY
396 (118.3, 126.18)
SIOUX CITY
335
DES MOINES 31
AINSWORTH
ATKINSON
KANSAS CITY
DENVER
NICHOLSON
SLOAN
WAYNE
PENDER
OLIVER RANCH
DENISON
EAGLETON
ELGIN
NORFOLK
MANNING
CALIFORNIA
MISSOURI VALLEY
BRIGGS
HARLAN
ATLANTIC MUN
ATLANTIC
SCRIBNER
FREMONT
BLAIR
CLEAR RIDGE
OMAHA
320
CHEYENNE 27
BROKEN BOW
NEBR. 3 D.A.
COLUMBUS
DAVID CITY
GRAND ISLAND
260
(116.1)
HANCOCK
On request
ATLANTIC
257
TO DES MOINES
MEAD
28
OMAHA
278 (126.18)
COUNCIL BLUFFS
GLENWOOD
24
RED OAK
NORTH PLATTE
236
100TH MERIDIAN
BRAINARD
WESTON
WAVERLY
OVERTON
RED 6
69
260
80
LINCOLN
UNION
ARROW
OFFUTT AAF
396 (126.18)
CLARINDA
HAYES CENTER
400
LEXINGTON
KEARNEY
KEARNEY AAF (W)
536
CENTRAL
GRAND IS. AAF
278 (126.18)
LINCOLN
385
HARVARD
FAIRMONT
CRETE
IOWA
MO.
TARKIO
On request
OVERTON
278
HOLDREGE
KEARNEY AAF
396 (126.18)
HASTINGS
CLAY CENTER
OHIOWA
BRUNING
BEATRICE
TECUMSEH
AUBURN
HEWETTS
HEBRON
FAIRBURY
TARKIO
281
On request
HEW'S
CRAIG
FALLS CITY
NEB.
KANS.
SUMMERFIELD
BERN
NORTON
SENECA
HIAWATHA
PHILLIPSBURG
SMITH CENTER
MANKATO
BELLEVILLE
MARSHALL AAF
215
ST JOSEPH
341
WALDO (VHF)
108.7
DOWNS
MORITZ
BLOSSER
CLAY CENTER
WOOD AIRPARK
KANS. 3 D.A.
HOLTON
LARKINBURG
MARSHALL AAF
396 (126.18)
MANHATTAN
POTTAWATOMIE
PHILLIP BILLARD
278
LAWRENCE
ELKINS
HUNTOON
TULSA 63
AMARILLO 59
WICHITA 62
TO AKRON
TO SMOKY HILL
TO KANSAS CITY
RED 1
CONTROLLED ONLY BETWEEN 8500 AND 8500 FT. M.S.L.
BLUE
YELLOW
GREEN 3
RED 5
AMBER 4
118
234
247
337
157
54
90
201
4000
3000
6000
5000
7000
125
83
45
72
170
165
153
76
18
30
28
24
253
249
260
69
80
244
146
67
94
274
309
184
196
106
164
148
89
326
123
359
KANSAS CITY
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.

DES MOINES


MINNEAPOLIS 14
ROCHESTER
TO RED WING
260
120
236
LA CROSSE
TOMAH
WISCONSIN STATE MILITARY
CAMP McCOY AAF
SPARTA-ANGELO
WIS. 2 D.A.
RED 36
77
ROCHESTER 236
ALBERT LEA
DECKER
350
LA CROSSE 371 (116.1)
GREEN 2
307
LONE ROCK
188
AMBOY
TRI-MONT
SHERBURN
FAIRMONT
BLUE EARTH
MINN.
IOWA
LE ROY
ARMSTRONG
ESTHERVILLE
On request
MASON CITY 227
MASON CITY
56
HENRY'S
TATRO FLY SER.
98
RICHLAND CTR.
10 MADISON
276
ROCKFORD
338
RYAN
WESLEY
SQUEEZE
LONE ROCK 278 (116.1)
MINNEAPOLIS CHICAGO
CLERMONT
MINNEAPOLIS KANSAS CITY
POCAHONTAS
CLARION
DOWS
183
GOODRICH & GROSS
WIS. IOWA
RED ROCK
WIS. ILL.
DUBUQUE
ENO
SAC CITY
LAKE CITY
WEBSTER CITY
IOWA FALLS
CANFIELD
CHAPMAN
DYERSVILLE AWYS
SHULLSBURG
BELLEVUE
EMMERTS
GRUNDY CENTER
CONRAD
TRAER
CARROLL
JEFFERSON
AMES
NIEDERHAUSER
SAXON
MCVILLE
MOLINE 224 (116.1)
HUNTER
CEDAR RAPIDS
IOWA CITY 248
MELBOURNE COM.
MELBOURNE
AUDUBON AWYS
ADAMSON AWYS
NEWTON
NIEDERHAUSER AWYS
IOWA CITY
GRAND
CLINTON
GUTHRIE CENTER
DODGE
MONROE
CRAM
TO WALNUT
ADAIR
STUART
CARLHAM
BEAVER
85
265
258
GREEN 3
MONTEZUMA
86
266
MOLINE
PELLA
MUSCATINE
COLUMBUS JUNCTION
WASHINGTON MUN.
MOLINE 278
On request
MONTEZUMA 278
On request
OMAHA 320
DRESSLER
DES MOINES 278 (126.18)
BLUE 35
LUCAS
CHARITON
BURLINGTON 326
CHICAGO 350
DES MOINES 212 (116.1)
NAS. OTTUMWA 272 (142.74)
OTTUMWA MUN.
VENTURE
MT PLEASANT
MONMOUTH
GALESBURG
OMAHA 30
MT AYRPORT
HUMESTON
LEON
SEYMOUR
CENTERVILLE
UNIONVILLE AWYS
HI-WAY
IOWA
MO.
LAMONI
KIRKSVILLE 391
BURLINGTON
MACOMB
EDWARDS
KIRKSVILLE
KEOKOK
CARTHAGE
ST. DAVID
FORDYCE
VAUGHN
LURAY
MATANZAS
ST. JOSEPH 341
BEARDSTOWN
CHILLICOTHE 242
SAVANNAH
OSBORN
QUINCY
TO OMAHA
ROSECRANS
CHILLICOTHE
CAMERON
BAILEY'S
HANNIBAL
NEGUS
JACKSONVILLE
MARCELINE MUN
LEAVENWORTH
LINKVILLE
EXCELSIOR SPRINGS
RED 12
BAILEY'S
BRADLEY
KANSAS CITY ST. LOUIS
SPRINGFIELD 239
SLATER
BOWLING GREEN
CHESTERFIELD
SHERMAN AAF 396 (126.18)
FAIRFAX AAF 278 (118.9, 126.18)
INDEPENDENCE
HEART OF AMERICA
LEXINGTON
MARSHALL
NAPTON
GREEN 4
FAYETTE
GREEN
FISHER DE SOTO 20
ONG
NICHOLAS
SEDALIA AAF 368
COLUMBIA 379
TO ST PETERS
JERSEYVILLE
ST LOUIS 209
KANSAS CITY 359
KANSAS CITY 278 (118.3, 126.18)
MARSHALL 281
On request
FOR DETAILS IN THE ST LOUIS AREA SEE CHART 142
TULSA 63
ST. LOUIS 66
OVER
SCALE OF MILES
25 0 25 50
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
EXTREMELY HAZARDOUS
USABLE WITH CAUTION

DES MOINES

RADIO — ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD. HRS. OF OPER., REMARKS
JERSEYVILLE FM	(-)	FM, 355°,21	St. Louis, Mo.
MOLINE	224(MO)(116.1)	SBRAZ-VDT,142°,12	(4), 116.1
Moline Airport	278	ML, 86°, 2.3	3105 (on req)
IOWA			
BURLINGTON	326 (BN)	SBRAZ-DT,357°,1.8	(4)
DES MOINES	212 (DM)(116.1)	SBRAZ-VDT	(4), 116.1
Des Moines Arpt.	278 (126.18)	C, 344°, 2	(4),116.1,131.9,126.18
EARLHAM FM	(- - - -)	FM, 258°, 26.3	Des Moines
IOWA CITY	248 (DX)	BHT	(4)
LUCAS FM	(- - -)	FM, 164°, 27.2	Des Moines
MASON CITY	227 (NM)	MHT	(4) oper cont.
MONROE FM	(- -)	FM, 78°, 23.5	Des Moines
MONTEZUMA(Int)	278 (MZ)	MHT	(4)
OTTUMWA NAS	272 (142.74)	CN	(3), 142.74
KANSAS			
FAIRFAX (Kansas City)	278 (126.18) (118.9)	C	(4),126.18,131.9,118.9
SHERMAN (Ft. Leavenworth)	396 (126.18)	CA	(3),126.18 cont.except Sun.(23-7)
MINNESOTA			
ROCHESTER	236 (RR)	BMRLZ-DT,350°,2.5	(4)
MISSOURI			
CHILLICOTHE(Int)	242 (CK)	MHT	(4)
EXCELSIOR SPRGS FM	(-)	FM, 52°, 27	Kansas City
KANSAS CITY Kansas City Arpt.	359 (KC) 278 (126.18) (118.3)	SBRAZ-DTX AC (ILS),148°,3	(4) (4), 116.1,131.9,126.18, 118.3
KIRKSVILLE	391 (KR)	BMRLZ-DT,333°,0.9	(4)
LINKVILLE FM	(- - - -)	FM, 328°, 11.4	Kansas City
MARSHALL (Int)	281 (MH)	MHT	(4)
ST. JOSEPH (Rosecrans)	341 (ZJ)	SBMRLZ-DT,359°, 3.7	(4)
WISCONSIN			
LA CROSSE(Int)	371(LE)(116.1)	SBRAZ-VDT,127°,1.8	(4), 116.1
LONE ROCK (Int.)	278(LK)(116.1)	BMLZ-VDT,98°, 0	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER BEAC & MILEAGE (ILS)	COMPASS LOCATORS
KANSAS CITY, MO.	109.9	333.8	172° Mag	OM ·····(.01) MM	OM – – (2.65)
				MHR 221----(2.6) OMR 248---(11.0)	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — ILLINOIS

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Carthage	1.5 SSW,RR E	665	19	Pole line NE, E.
★ Chesterfield Int. 4, LS-CG	3 ENE,hwy N	612	26 L3	
Galesburg	1.7 NW,RR SSW	788	27h L3 S6	80 oct.Fld lgts prior req.Trees SW, NE.
Hi-Way(Flatt)	1.3 NW,RR E	665	20 S1	80 oct.35' poleline S,E.
Jacksonville	3.9 S,hwy E	650	19 S4	80 oct.Trees SW.
Macomb	2.4 E,hwy E	695	23 S6	73,80 oct. No sto.
Matanzas(Havana)	4 S,riv W	480	24 S2	80 oct.Data not verif.
MOLINE	4 S,hwy E	590	40h R1 L3 S6	73,80,91,100 oct.
Monmouth	1.5 NNE,rd E	770	31 L1 S6	80 oct.Poleline E,W,S.
Negus(Alexander)	2.8 WNW,RR SE	645	22	PRIVATE.
Quincy	2.8 SE,hwy E	650	26 S4	80 oct.
St. David	1.5 SW,hwy N	628	22 S2	80 oct.Lgt acft only.
Beardstown	1.5 SE;RR N,W		18 S2	80 oct. Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (see page xiii) (NC)- not charted.

IOWA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adair	1.5 SSE,RR NW	1100	18 S1	Ltd 73 oct.Trees S.
Adamson Airways	4.8 WSW,hwy N	1000	17 S6	80 oct. (Perry)
Ames	2.5 SSW,RR NW	920	28 S6	80 oct.Lgt acft only.
Armstrong	3.2 NW,hwy S	1250	22 S1	Ltd 80 oct.Trees E.
Audubon Arwys	1 SSE,RR W	1300	15 S1	80 oct. (Audubon)
Beaver	3.4 NW	900	25 S6	80 oct. (Des Moines)
Bellevue	3 N,RR W	652	19 S1	80 oct.
(P)BURLINGTON	1.7 SSW,hwy E	698	54h R1 L5 S6	80,91 oct.
Canfield(Waterloo)	3.5 NW,RR NE	800	32 S6	87 oct.Pole line N
Carroll	4.2 ESE,RR N	1196	34 S2	80 oct.
(P)Cedar Rapids	6.7 SSW,RR E	860	55h L5 S1	80, 91 oct.
Centerville	3.5 SSW, RR N	1017	25 S2	80 oct.Use strips only.
Chapman(Waterloo)	5 E,RR NW	870	33 S6	80 oct.Poleline S.
Chariton C.A.P.	2.3 NNE,RR SE	1050	16 S1	80 oct.
Clarion	1.1 NW	1162	27 S6	80 oct.
Clermont	0.8 S,riv W	800	21 S6	80 oct.Poleline SE,NE.
Clinton	6.2 WSW,RR S	700	27 S6	80 oct. No sto.
Columbus Jct.	3 N,RR E	580	28 S2	80 oct.Poleline N,E,NE.
Conrad	3 WNW,RR S	1000	23 S2	80 oct.27' bldg E.
Cram (Davenport)	2.5 NW,RR SW	646	21 S6	80,91,100 oct.
Creston Arwys	1.6 NE, RR W	1320		UNUSABLE.(NC)
(A)DES MOINES	4.5 SSW,RR W	950	52h R2 L5 S4	80,91 oct. INACTIVE.
Dodge (Grimes)	3.5 E,hwy,RR E	835	27 S6	80 oct.
Dows	1.5 SSE,RR NE	1144	26 S2	80 oct.
Dressler(Anita)	7 SSE,rd W	1250	17 S2	80 oct.Trees S.
Dubuque	1.9 NE,riv E	602	27 S6	80 oct.Poles SE,NW.
Dyersv'l Arwys (Dyersville)	0.8 S, RR NE	940	16 S1	80 oct.Pwrlines NW,NE
Elliot Fly.Svc.	Adj S	550	Unl. S1	80 oct. (Davenport) (NC)
Emmerts(Eldora)	2.8 NE,lake SW	1000	32 S6	80 oct. Poles NW,SE
Eno(Ft.Dodge)	2.5 E,hwy W	1126	27 S6	91 oct.
(P)Estherville	3.5 E,hwy S	1298	35 S6	80 oct.Poles SE,S,SW.
Goodrich&Gross (Strawberry Pt.)	3.5 W,RR NE	1200	19 S1	Ltd 80 oct.
Grand Mound	1.2 SW,RR N	770	20 S2	80 oct. (Grand)
Grundy Center	1.3 ENE,RR S	990	18 S1	80 oct.Pole line S.
Guthrie Center	0.5 NW,riv E	1074	21 S1	80 oct.
Henry's(Floyd)	5 NNE,RR W	1110	14 S1	80 oct.Poles ENE.Steep sloped strips.
(P)Hunter (Cedar Rapids)	3 S, riv N	732	27 L3 S6	80,91 oct.Fld lgts prior req. Poles S, E.
(P)IOWA CITY	1.7 SW, riv E	650	43h R1 L1 S6	80, 91 oct. No sto.
Iowa Falls	4.1 S, RR E	1140	24 S2	80 oct.
Jefferson	0.8 NNW,RR S	1052	23 S6	80 oct.No sto.Poleline
Keokuk	4.6 NNW,riv E	670	27 S1	Ltd 80 oct. N.
Lake City	3.5 NNE, RR S	1200	26 S1	80 oct.
★ Lamoni Int,10, KC-MP	3 WNW, RR NE	1163	37 L3 S2	73 oct.
Leon	4.1 N, RR SE	1050	20 S2	80 oct.
McVille (Mechanicsv'l)	3.2 WNW,RR S	850	30 S6	80 oct. Poles S,W.
MASON CITY	7 W,hwy S	1215	56h R1 L5 S6	80,91,100 oct. Poles SSE
Melbourne	1.5 SW	1000	20 S1	80 oct.Poles N.
Melbourne com.	0.3 S,RR E	1000	21 S2	80 oct. Pole line E.
★ Montezuma Int, 17, OH-CG	3 E,hwy N	953	32 R1 L3	Poles, trees SW. Pwr line N.
Mt.Ayrport (Mt. Ayr)	0.6 N, RR N	1100	21 S1	Ltd 80 oct.Poles N,NE
Mt. Pleasant	2.6 ESE,RR N	727	19 S2	80 oct.
Muscatine	6 SW,RR SE	546	36 L3 S6	80 oct.
Newton	1.5 ENE,hwy S	950	19 S1	80 oct.
Niederhauser	2.3 N, hwy E	990	30 S6	80 oct.(Marshalltown)
Niederhauser Arwys(Grinnell)	4.5 E	1000	26 S2	80 oct.
Ottumwa	3.6 N,hwy W,S	830	32 S6	80, 91 oct.
(N)Ottumwa NAS	6.4 NNW	841	52h R1 L5 S6	73, 91 oct. (N)
Pella	3.5 SE,RR N	877	24 S6	80 oct.
Pocahontas	0.8 E	1216	25	Pole line SW
Ryan (Emmetsbg)	1.3 W,RR N	1225	18 S2	80 oct.Trees NW.
Sac City	3 SSE,riv W	1160	19 S2	80 oct.
Saxon(Ced.Rpds)	7 NE,hwy S	880	31 S6	80 oct.Trees E,SE.
Seymour	2 NNW,RR S	1060	24 S1	80 oct. Hedge S.
Squeeze(Algona)	5 S,riv S	1201	26 S2	80 oct.Pole line NW,W
★ Stuart Int,8,OH-CG	3.5 SE,rd E	1189	31 L3	Pole line NE,E.
Tatro Fly.Svc.	2.6 NW,riv W	918	26 S2	80 oct. (Decorah)
Traer	1 ENE,RR SW	895	18 S2	80 oct.Pole line E.
Venture(Ottumwa)	2.8 SSE,RR W	800	13 S6	80 oct.Poleline N,W,NE
Washington	1.5 SSE,RR NE	769	25 S6	80 oct.
Webster City	3.3 SW,riv E	1100	26 S4	80 oct. No sto.
Wesley	1.5 E,RR N	1250	31 S1	80 oct. Poleline N,S.

KANSAS

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A)Fairfax (Kans.Cy)	3 NE,RR E	742	65h R1 L5S4	91, 100 oct. (A)
Fisher	1 ESE,RR N	770	26 S6	80 oct.(Edwardsville)
Leavenworth Lecompton	3.6 WSW,RR E	1125	14 S4	80 oct.No sto.Trees, bldg S.
(A)Sherman(Ft. Leavenworth)	1 NNE,RR W	771	60 R1 L5 S4	73, 91, 100 oct. (A)

MINNESOTA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P)Albert Lea	2.3 N, RR E	1255	32 S6	80 oct.No sto.Poleline
Amboy	1 NNE, RR W	1000	24 S1	80 oct. N.
Blue Earth	3 S,RR E	1111	23 S1	80 oct.Poleline E.
Decker(Austin)	1.7 E,hwy N	1224	26 S4	73 oct.Obsts sur fld.
Fairmont	3.1 S,hwy W	1190	24 S1	80 oct.Poleline W.
ROCHESTER	1.7 SSE,RR W	1040	43h R1 L4 S6	80,91 oct.Poleline E,N
Sherburn	2 WNW,RRs S,E	1300	21 S2	80 oct.Pwr line ESE.
Tri-Mont	0.9 S,RR W,E	1250	22	(Triumph)

MISSOURI

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bailey's (Brookfield)	2 WSW,RR N	800	20 S2	80 oct.Pwr line SE.
Bailey's (Chillicothe)	2 SSE,RR W	675	27 S6	80 oct.Poles S.
Bowling Green	1.6 NW,RR E	882	25 S2	80 oct.Poles S,pwrline
(P)Bradley(Moberly)	3 NNE,hwy W	865	37h S6	80 oct.Obsts. SE.
Cameron	2 E,RR NW	1050	21 S4	73 oct.Pwr line N.
★ Chillicothe Int, 7, KC-CG	3 E	781	25h R1 L3	Pole line S,trees SW.
Edwards	1.2 ENE,RR W	920	17 S1	Ltd 80 oct.(Grant City)
Fayette	1.5 S	660	28 S2	80 oct.Data unverified.
Fordyce(Bethany	4.8 ESE,RR WNW	1050	22 S1	80 oct.
Green(Mexico)	4.3 ESE,RR S	815	36 S6	80 oct.Trees SE.
Hannibal	4.3 WNW,hwy N	735	28 S6	80 oct.Poleline SW.
Heart of America (Kansas City)	4 E,RR E	759	23 S6	80 oct.Poles,trees S.
Independence	5.8 ESE,RR S	825	23 S6	80 oct.Poles S.
KANSAS CITY	2.5 NW,riv W,S	739	52h R3 L6 S6	80,91,100 oct.Poles E,
Kirksville Arpk	Adj SE	927	26 S2	80 oct. dike W.
" 12, KC-CG	7 SE,hwy NE	970	39h R1 L3 S6	91, 80 oct.
Lexington	3 WNW,RR NW	650	33 S6	73 oct.Poleline S,W,SW
★ Luray Int,16,	1.9 ESE,hwy N	727	26 L3	KC-CG
Marceline	1.5 N,RR SE	855	20	Pole line NNE.
★ Marshall Int,7, KC-LS	1.8 S,hwy E	800	39 R1 L3 S2	80 oct.Silo NE corner
Maryville (NC)	2.2 WNW,RR N	1154	25	
Nicholas(Marshall)	3.8 S,hwy W	770	26 S4	80 oct.Pwr line S.
★ Osborn Int,4,	1.5 NW, hwy S	1046	32 L3	KC-MP
Rosecrans	4 NW,riv S	821	60h R1 L5 S2	(St. Joseph)80,91 oct. Fld
Savannah	1.3 E, RR W	1025	13 S1	Ltd 80 oct. lgts on req.
Slater	0.8 NW,hwy SE	850	26	Pole line adj N.
Unionville Arwys	1.5 ESE,hwy NE	1100	24 S2	80 oct.Pole line N.
Vaughn(Trenton)	1.2 NNW,RR E	790	26 S1	Ltd 80 oct.

WISCONSIN

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A)Camp McCoy(A)	2.6 E Sparta	830	38h	RR W
(P)La Crosse	5 NNW,bet rivs	653	53h L5 S4	80, 91 oct.
★ " Int,23A,	8 NNW,RR NE	667	37 R1 L3	Pole E.(CG-Twin Cys)
★ Lone Rock Int, 15,CG-Twin Cys	2 N,rd W,N	714	39 R1 L3 S2	Ltd 80 oct.Poleline NE
Red Rock (Darlington)	5 SE,RR E		12 S1	80 oct.Data not verif.
Richland Center	6 SSE,hwy W		23 S1	80 oct.Trees E,S.Data not verified.
Shullsburg	0.5 S	1000	18 S1	80 oct.Trees SW.Data not verified.
Sparta-Angelo	2.2 NE,RR E	800	25 S1	80 oct. Poles sur fld.
Tomah	1 E,RR N	970	18 S1	73 oct. 180' hill E.
(P)Wisconsin State Military	1 N, RR SW	915	31h	(Camp Douglas)

RADIO — ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
BRADFORD (Int.)	382 (MQ)	MHT	(4)
CHICAGO	350 (CG)(116.1)	SBRAZ-VDTX,152°,2.2	(4);116.1
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
GLENVIEW (Navy)	269 (NBU)	MLZ-DT	(3): 140.58,142.74
Glenview NAS	236 (142.74) (140.58)	CN, 140°, 3	(3);142.74,140.58;3117.5 on req.
HARVEY (Rubinkam)	385 (GH)	MLWZ, 90°, 2.2	
JOLIET	257 (JO)(116.1)	SBRAZ-VDT,126°,3.6	(4); 116.1
NEWARK FM	(- - -)	FM, 246°, 49	Chicago
PEORIA	356 (PI)	SBMRAZ-DT,178°,2.3	(4)
ROCKFORD (Machesney)	338 (RD)(116.1)	SBRAZ-VDT, 45°,1.8	(4); 116.1
INDIANA			
LOWELL FM	(. . - -)	FM, 152°, 40	Chicago
McCOOL (Int.)	359 (ML)(116.1)	MHVT	(4): 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen
WISCONSIN			
GENERAL MITCHELL (Milwaukee)	278	C	(4)
GENESEE FM	(- - -)	FM, 279°, 25.3	Milwaukee
KENOSHA FM	(- -)	FM, 178°, 24.7	Milwaukee
MADISON (Truax)	400 (MA)	BMLZ-DT, 314°,2.6	(4)
MILWAUKEE (Gen'l Mitchell)	242(MK)(116.1)	SBRAZ-VDT.352°.2,4	(4): 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

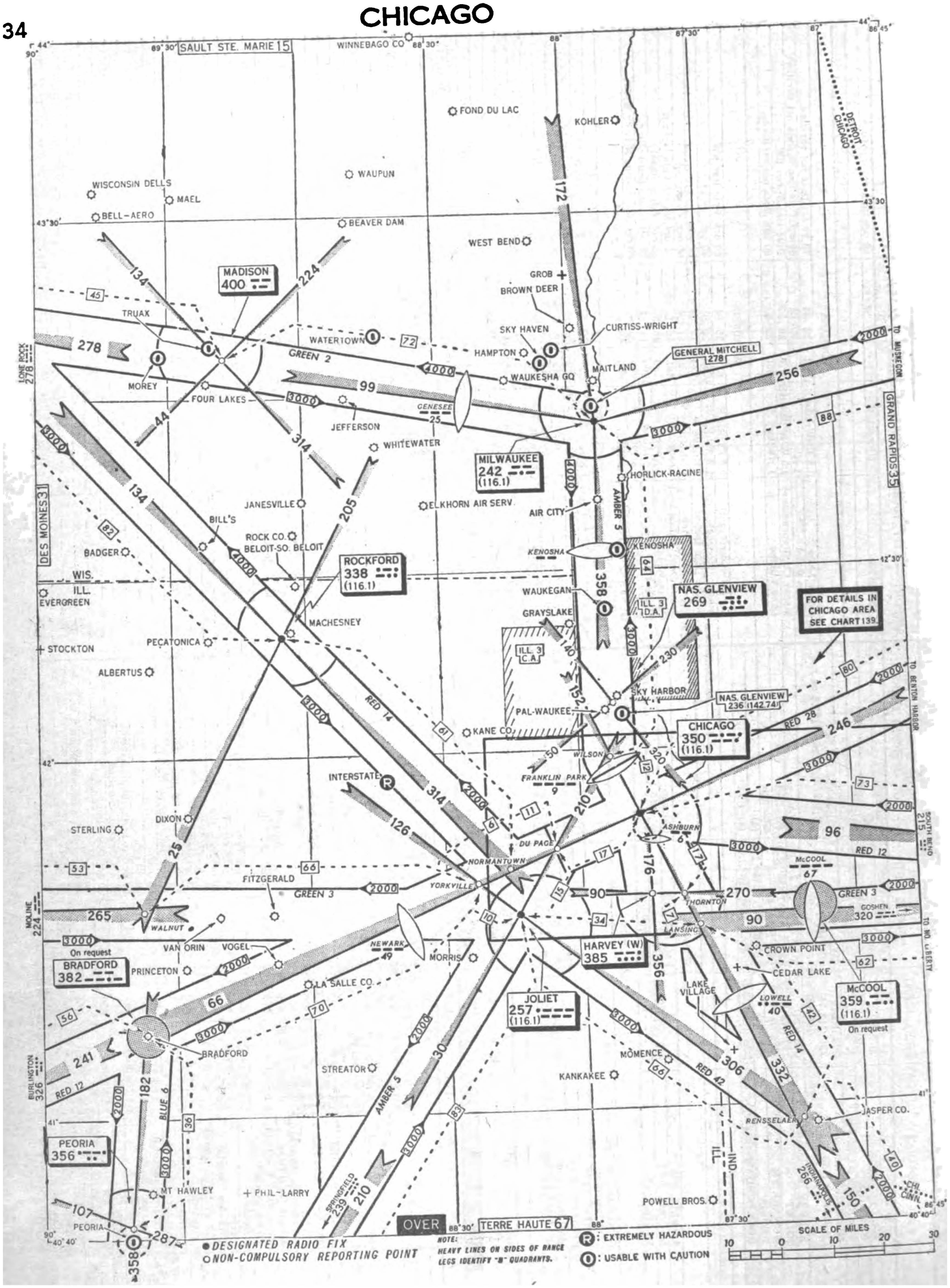
AIRPORTS — ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertus (Freeport)	3.8 SE;RR S,W	740	33 S4	73 oct. Tank S.
Beloit-S.Beloit(S.Beloit)	1 S; RR E	772	35 S6	80 oct.Use strips.Pole line W.
★ Bradford Int,29,KC-CG	4.5 NNE	795	26 R1 L3 S1	80 oct. Pole line SW, NE.
Dixon	1.9 ESE;RR S	786	26 L3 S6	73 oct.No bndry lgts.Poles S,N.
Evergreen (Warren)	1.4 SSE;hwy S	1000	26 S1	80 oct. Trees W.
Fitzgerald (Mendota)	1.5 NW;lake E	800	22 S6	80 oct.Trees E.
(N) Glenview NAS (N)	1.6 NW;RR W,E	654	63h R2 L3 S6	91,100 oct. No sto. NAFC
Grayslake	1.1 ENE;rd W	791	26	Trees W, S, E.
Interstate (De Kalb)	1.8 E;RR W	900	42h	
Kane County (Elgin)	7 WNW;hwy E	910	22 S4	80 oct.Pole line E.
Kankakee	3.2 WSW;hwy E	625	26 S4	73,80 oct.Use strips only.Ditch N.
Kiswaukee(Sycamore)	2.1 SW;rd E	830	18	(NC)
La Salle Co.(Utica)	1.8 NNW;hwy S	619	12 S2	80 oct. Poles NE.
Machesney,7,CG-Twin Cities (Rockford)	6 NNE;riv W	735	29 R1 L4 S6	73,80 oct. Pole line E.
Momence	3.5 SW;riv NW	645	23 S2	80 oct.Trees N,NW,NE.Riv N.
Morris	4.5 N;hwy W	590	21 S2	73 oct.Poles N,NNE.
Mt.Hawley (Peoria)	6.4 N;rds E,S	700	28 S6	80 oct.Pole line S, E.
Pal-Waukee(Glenview)	5.5 WNW;RR S	642	26 L3 S6	80,91 oct. Pole line N
Pecatonica	1 N;hwy E	750	24 S1	73 oct.Poles E.
PEORIA	4.8 WSW;rd E	659	44h R1 L1 S6	80,91 oct.Trees W,bldgs NE.
Phil-Larry (Peoria)	18 ENE	-	23 S1	80 oct. Data not verified.
Powell Bros.(Sheldon)	2.2 S;hwy NE	650	20 S2	80 oct.
Sky Harbor (Northbrook)	1.6 NW;RR SE	680	26 S6	80, 91 oct.
Sterling	1.4 NW;hwy E	645	25 L3 S4	80 oct.No bcn.Lgts prior req.
Stockton	2.3 SSE	940	18 S1	80 oct.Data not verified.
Streator Air Service	2 ENE;hwy S	650	26 S4	80 oct.Pole line E.
★ Van Orin Int,34,OH-CG	1 ENE;RR S	828	33 L3	Poles W.
Vogel (La Salle)	6.5 NNW;RR E	664	26 S2	80,90 oct.Soft when wet.Poles N,W.
Waukegan	3.5 NW;hwy E	600	22 L1 S5	80 oct. Bldg SE.
Will Co. (Steger)	0.5 S;RR W	740	15 S6	Pole line S. No sto.or fuel.

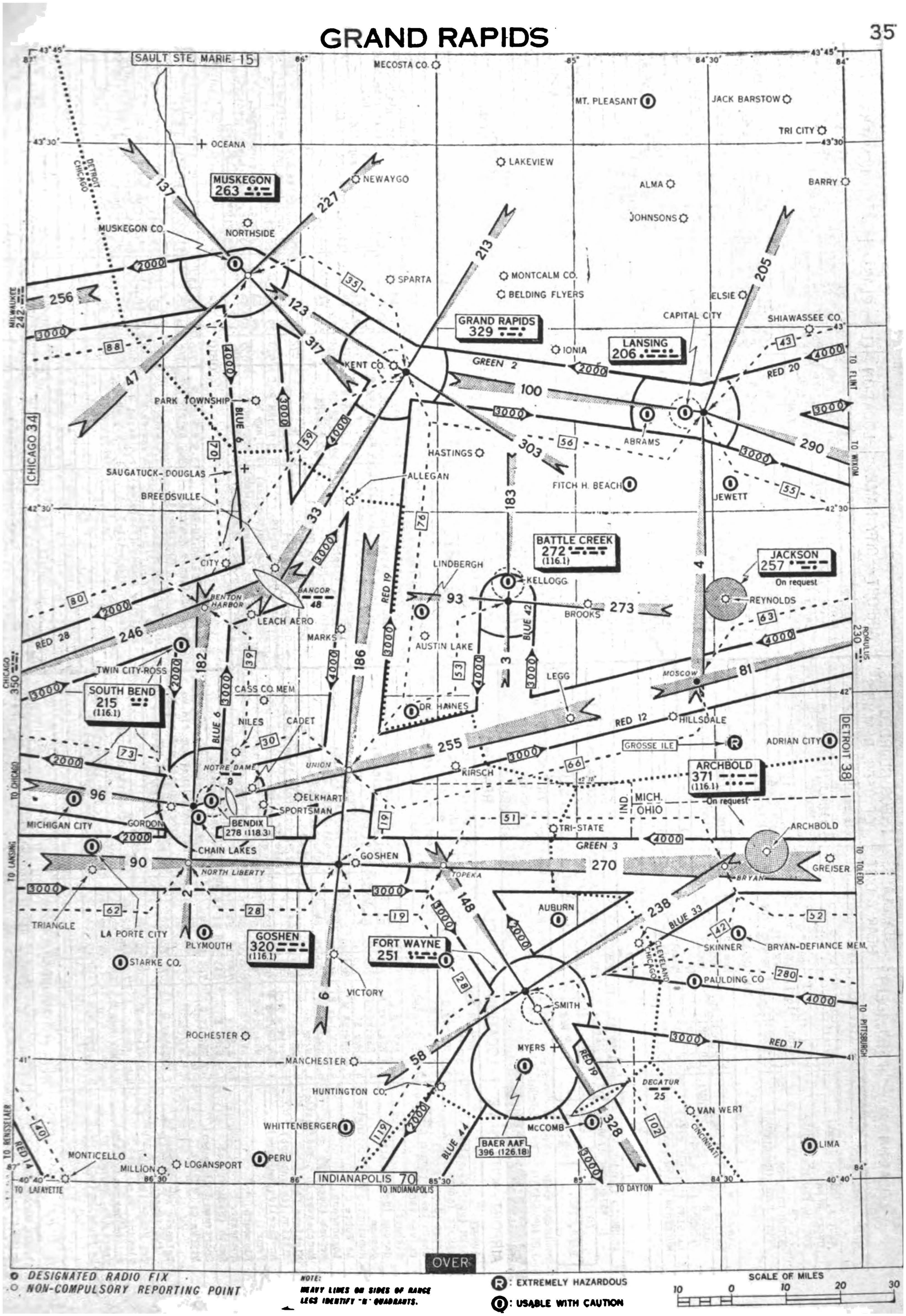
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not charted.

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Princeton	3 N;creek N		18 S2	80 oct.Data unverified.
INDIANA				
Cedar Lake	1.5 NNW;lake E	751	28 S4	73,80 oct.Data not verified.
Crown Point	1 N		30 S1	80 oct.Pole line E.Data not verified.
Jasper Co.(Rensselaer)	1.5 WNW;RR NE	676	28 L3	Pole line S; twr SW.
Lake Village	1 NW;hwy S	650	22 S2	80 oct. Data not verified.
WISCONSIN				
Air City(Sturtevant)	0.6 SE;RR E	633	25 S4	80 oct. Pole line NW.
Badger (Monroe)	1.8 SW;RR N	1080	20 S1	80 oct.
Beaver Dam Inc.	2 N;lake W	914	15 S1	80 oct.
Bell-Aero Service	4 NNW;hwy W	980	21 S4	80 oct. (Baraboo)
Brown Deer(Milwaukee)	10 NNW;RR E	681	20 L S4	80 oct.No sto.Pole lines N.
Curtis-Wright	9 NW;riv SW	750	28 S6	80 oct. (Milwaukee)
Elkhorn Air Service	1.5 N;hwy E	1000	13 S1	80 oct.Rough and rolling.
Fond du Lac	2.6 ENE	769	26 S2	80 oct. 50' hi-line N.Lake WNW.
GENERAL MITCHELL (Milwaukee)	6 S;RR E	675	50h R2 L4 S6	73-100 oct.
Hampton (Marcy)	1.6 W;RR N	860	17	Poles S, trees N.
Horlick-Racine(Horlick)	2 N;RRs E,W	665	25h L1 S6	80,91 oct. Trees N, SE.
Janesville	1.8 NNE;RRs NW	880	26 S4	80 oct.No sto. 51' twr SE.
Kenosha	2 S;RR W	623	29 L S6	80, 91 oct.Flood lgts.
(P) Kohler	1 N;hwy S	647	30 L1 S6	80 oct.Obsts sur fld.
Mael (Portage)	1.6 NW;lake SE	820	26 S6	80 oct.Obsts sur fld.
Maitland(Milwaukee)	3 ESE;hwy W	590	25 S6	80,91 oct. Stack S.
Morey (Madison)	9 WNW;hwy E	928	34 S6	80 oct.30' pole line S.
(P) Rock Co.(Janesville)	4.5 SSW;RR W	807	54h L5 S2	80, 91 oct.
Skyhaven (Milwaukee)	10.5 WNW	800	26 S1	80 oct.Pole line N,trees E, S.
(A) TRUAX(Madison)	5 NE;hwy E	858	60h R1 L5 S2	73,91,100 oct. Fld lgts & sveg not avail.
Watertown	1.2 S;riv W	820	24 S2	80 oct. Bldg W. 2430-0030. INACTIVE
Waukesha County	1.8 N;rd jct NW	904	31 S6	80 oct. Pole line S.
West Bend	2.5 E;riv S	880	20 L3 S6	80 oct. Poles sur fld.
(P) Winnebago Co.(Oshkosh)	2 SSW;RR NE	776	28h L1 S4	80 oct.No sto.Pole line NE,N,W.
Wisconsin Dells-Lake Delton(Lake Delton)	0.8 SE;riv NW	910	24 S6	80 oct.2 hills SW;trees,pole line NW,NE, and SE.
Waupun	3.5 W;RR E	912	14 S1	80 oct.
Bill's (Broadhead)	1.8 S;riv S,W	780	23 S1	80 oct.
Jefferson	1.7 WSW;RR E	800	13	Pole line N.
Whitewater	2 N;RR S	810	20 S1	80 oct.Poleline E,ENE,ESE;ridge E.
(P) Four Lakes (Madison)	3 SSE;lake N	881	30 S6	80 oct.Obst.lgts prior req.
Jackson (Madison)	3 WNW	849	Unl S2	80 oct.Dock;float.
Milwaukee	3 ESE;hwy W	585	185 S6	80,91 oct.
Grob (Cedarburg)	2 W of Fraftonj rd N	875	24 S4	Data unverified.

CHICAGO


SAULT STE. MARIE 15
WINNEBAGO CO
FOND DU LAC
KOHLER
DETROIT CHICAGO
WAUPUN
WISCONSIN DELLS
MAEL
BELL-AERO
BEAVER DAM
WEST BEND
MADISON 400
GROB
BROWN DEER
TRUAX
SKY HAVEN
CURTISS-WRIGHT
WATERTOWN
HAMPTON
GENERAL MITCHELL 278
MAITLAND
WAUKESHA GQ
LONE ROCK 278
MOREY
FOUR LAKES
GENESEE
JEFFERSON
WHITEWATER
MILWAUKEE 242 (116.1)
HORLICK-RACINE
TO MUSKEGON
GRAND RAPIDS 35
JANESVILLE
ELKHORN AIR SERV.
AIR CITY
AMBER 5
DES MOINES 31
BILL'S
ROCK CO.
BELOIT-SO. BELOIT
KENOSHA
BADGER
ROCKFORD 338 (116.1)
WIS.
ILL.
EVERGREEN
WAUKEGAN
NAS. GLENVIEW 269
FOR DETAILS IN CHICAGO AREA SEE CHART 139.
MACHESNEY
GRAYSLAKE
ILL. 3 D.A.
ILL. 3 C.A.
PECATONICA
STOCKTON
ALBERTUS
SKY HARBOR
NAS. GLENVIEW 236 (142.7A)
PAL-WAUKEE
KANE CO.
CHICAGO 350 (116.1)
WILSON
FRANKLIN PARK
INTERSTATE
DIXON
STERLING
DU PAGE
ASHBURN
McCOOL 67
NORMANTOWN
FITZGERALD
YORKVILLE
THORNTON
LANSING
CROWN POINT
CEDAR LAKE
LAKE VILLAGE
LOWELL
McCOOL 359 (116.1)
On request
HARVEY (W) 385
JOLIET 257 (116.1)
NEWARK
MORRIS
LA SALLE CO.
WALNUT
VAN ORIN
VOGEL
PRINCETON
BRADFORD 382
BRADFORD
STREATOR
MOMENCE
KANKAKEE
RENSSELAER
JASPER CO.
PEORIA 356
MT HAWLEY
PHIL-LARRY
POWELL BROS.
TERRE HAUTE 67
SPRINGFIELD
INDIANAPOLIS 266
TO BENTON HARBOR
TO MICHIGAN CITY
SOUTH BEND 215
BURLINGTON 326
MOLINE 224
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

GRAND RAPIDS



RADIO — INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAER, FORT WAYNE	396 (126.18)	CA(ILS)	(3);142.74,126.18
BENDIX, (South Bend)	278 (118.3)	C	(4);118.3,126.18,131.9
DECATUR FM	(- -)	FM, 148°, 24.7	Ft. Wayne
FORT WAYNE (Smith)	251 (FW)	BMRLZ-DT,148°,3.4	(4)
GOSHEN	320(GO)(116.1)	SBRAZ-VDT,89°,2.7	(4); 116.1
NOTRE DAME FM	(- -)	FM, 75°, 8.2	South Bend
SOUTH BEND (Bendix)	215(SN)(116.1)	SBMRAZ-VDT,75°,3.3	(4);116.1

MICHIGAN

BANGOR FM	(- - -)	FM 213°, 48	Grand Rapids
BATTLE CREEK (Kellogg)	272(JC)(116.1)	BMLZ-VDT, 3°, 3.2	(4);116.1
GRAND RAPIDS (Kent County)	329 (GR)	BMRLZ-DT,3.3°,2.2	(4)
JACKSON (Reynolds)	257 (JN)	MHT	(4)
LANSING (Capital City)	206 (LJ)	SBMRAZ-DT,280°,3	(4)
MUSKEGON (Muskegon County)	263 (UK)	BMLZ-DT,317°,2.8	(4)

OHIO

ARCHBOLD (Int)	371(YV)(116.1)	MHVT	(4); 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
BAER, IND.	110.3		314° Mag.	IM (.05)	MM ····· (1.05)	OM -- (4.55)	OMK
					MMK		

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5, kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — INDIANA

AIRPORT — CITY NAME	LOCATION	EL.	CLASS	REMARKS
Auburn	1.3 NNW;RR E	872	27 S2	73,80 oct.Trees sur fld.
(R)(S) BAER (FORT WAYNE)(A)	7 SSW;RR E	798	63h R3	INACTIVE
(R)(S) BENDIX (SOUTH BEND)	3.5 NW;hwy S	778	48h R2 L3 S6	80-100 oct.Poleline S,N.ARMY
Cadet (South Bend)	6.5 NE;RR E	730	33 S4	80 oct.Twr W;poleline E INACTIVE
Chain Lakes (South Bend)	5.2 W;hwy N,S	765	22 S3	80 oct.
Culver (NC)	2 E;lake W	815	26	
Elkhart	2.7 NNW;RR S	752	27 S6	73,80 oct.Hedge N.
Gordon (New Carlisle)	2.8 ESE;hwy N	730	13 S1	Fuel avail.Poles E.
Goshen	4.5 SSE;riv SW	823	39 R1 L3 S6	80,91 oct.
Huntington Co.(Huntington)	4 N;hwy E	750	30 S2	80 oct.Trees NE.
La Porte City	2.5 SSW;RR W	801	29 L3 S6	80 oct.Pole line E.
Logansport	4.4 SSW;hwy E	605	27 S1	80 oct.Poles E,N.
McComb (Decatur)	0.9 NW;hwy E	800	20 S4	80 oct.Poles S.
Manchester (No. Manchester)	1.5 W;RR E	752	21	Poles S.
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,W,S.
Million (Logansport)	7 SW;riv 2 N	594	15	Pole S.
Monticello (Chalmers)	3 ENE,RR,hwy W	650	26 S2	80 oct.
Peru	3.5 WSW;riv E	740	38 S5	80 oct.
Plymouth	1.5 NW;RR E	898	32 S4	80,91 oct.Poles W,E.
Rochester	1.5 E;RR N	779	18 S4	73 oct.Lake S.Poles N.
Smith (Fort Wayne)	4.5 N;RR E	831	35h R1 L4 S5	80 oct.No storage.
Sportsman (Mishawaka)	3.7 NE;riv S	760	18 S4	73 oct.No storage.Poles E,S.
Starke Co. (Knox)	1.7 S		26 S3	80 oct.Pole lines sur fld.No storage.Data not verified.
Triangle Air Service (Wellsboro)	2 NNE;hwy S	800	22 S2	80 oct.Poles S,SE,ESE.
Tri State (Angola)	4.2 W;lake W	900	30 S4	73 oct.
Victory (Warsaw)	4 N; RR E	790	24 S2	Ltd 73 oct.Obsts sur fld.
Whittenberger (Wabash)	1.5 NNW;hwy E	770	20 S2	80 oct.
Myers (Ft. Wayne)	4 SE		24 S2	80,91 oct. Pwr lines NE.Data
La Fontaine (NC)	5 NE;hwys N,W		19 S4	80 oct.Data unverified. unver.

MICHIGAN

Abrams (Grand Ledge)	1 NE	844	26 S1	80 oct.Pwr line S,W.Data unver.
Adrian City	3 SW; RR N	800	25 S6	80,91 oct. Obsts sur fld.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page xiii)(NC)-Not charted.

MICHIGAN

AIRPORT — CITY NAME	LOCATION	EL.	CLASS	REMARKS
Allegan	1.9 E;RR S	701	21 S4	80 oct.Pole line N,E,S,Blocked.
(P) Alma	1.3 NE;riv SE	750	32 S6	80 oct.Poles W.
Austin Lake (Kalamazoo)	8.5 SSE;lake N	860	27 S4	80,91 oct.Poles N
Barry (Saginaw)	3 WSW;riv S	599	19 S4	80 oct.
Belding	2.1 W;RR E	790	27 S4	73 oct.Poles S.
Breedsville Airpark	0.6 WNW;RR E	654	23 S4	73 oct.No Sto.Pole line NE,S,SW.
Brooks (Marshall)	1.3 S;riv N	950	26 L3 S6	80 oct.Trees W,lgtd.
CAPITAL CITY (LANSING)	3.8 NW;RR S	857	42h R1 L4 S6	73,80 oct.
Cass Co. Mem. (Dowagiac)	1 NW;RR SE	760	27 S2	73,80 oct.Pole line E.
City (South Haven)	4 S;RR W	640	30 S4	73 oct.Trees W.
Elsie	0.3 SSE;RR NNE	730	19 SL	80 oct.Pole lines sur fld.
Fitch H. Beach (Charlotte)	1.8 ENE;RR NW	880	25 S6	73 oct.No storage.
Haines (Three Rivers)	2.3 NE;riv SE	820	26 S1	80 oct.Poles N,S.
Hastings	3.2 WNW;RR SW	802	34 S3	80 oct.Pole line N.
Hillsdale	1.6 NW;RR E	1160	19 S4	73,80 oct. No sto.Poles NE,E.
Ionia	3 S;hwy W	810	24 S6	73 oct.Poles NW,
Jack Barstow (Midland)	1.4 ENE;RR S	634	27 S2	73,80 oct.Poles NE.
Jewett (Mason)	1.3 SE;RR W	920	22 S2	73 oct.Poles W,
Johnsons (Ithaca)	1 ENE;RR S	750	17 S2	80 oct.Ltd storage.
KELLOGG (BATTLE CREEK)	3 WSW;RR bed W	936	49h R1 L5 S6	80,91 oct.Fld lgts prior req.
KENT COUNTY (GRAND RAPIDS)	3.5 S;RR NE	681	44h R1 L3 S6	73,80,91 oct.Pole line NW,SE., Radio repairs.
Kirsch (Sturgis)	1 NW;RR E	922	24 S4	80 oct.Poles S.
Lakeview	1.1 NNE;lake S	900	19 S6	80 oct. Poles N.
Leach Aero Service(Hartford)	1 NNW;RR W	664	27 S3	73,80 oct.
(P) Legg (Coldwater)	1.3 NW	982	32 S2	80 oct.Trees E.
(P) Lindbergh (Kalamazoo)	4 SSE;RR E	872	40h S6	80,91 oct.Poles S.
Marks (Lawton)	1 N;RR S	770	25 S4	73,80 oct.Poles W,ENE.
Montcalm Co. (Greenville)	2.5 S;RR E	800	22 S1	80 oct.
Mt. Pleasant	2.2 NE;RR W	755	36 S4	80 oct.
(P) MUSKEGON COUNTY	3.5 S;lake N	627	40h R1 L3 S6	73,80,91 oct.
Newaygo	0.8 SSE;RR NNW	785	20 S1	80 oct.
Niles	1.5 NE;RR NW	740	24 S2	73,80 oct.Trees N,S.
Northside (Muskegon)	5.4 NNE	590	29 S4	73 oct.No sto.Refinery SW.
Park Township (Holland)	3 WNW;bay S	612	27 L4 S6	73,80 oct.No beacon,Lgts prior req.
(P) Reynolds (Jackson)	2.5 WNW;RR S	990	40h R1 L5 S4	80,91 oct.No sto.Pole line SE,SW.
St.Joseph Co.(Centerville)	5 SE;RR,hwy N	830	15	Pole line N,trees W. (NC)
Shiawassee Co. (Owosso)	2 E;riv S	740	24 S1	80 oct.Poles sur fld.
Sparta	2.7 SE;RR W	752	25 S4	73,80 oct.Poles sur fld.
Tri-City (Saginaw)	10 NW;RR SW	660	57h	
Twin City-Ross (Benton Harbor)	1.5 NNE;RR S	640	38h S6	73,80 oct.
White Cloud (NC)	0.5 N	872	18	Twr SE;poles E,W.
Oceana (Rothbury)	1 W;lakes NE		30 S2	80 oct. Data not verified.
Mecosta Co.,5,GR-TG	1.5 NW;RR E	928	39 L3 S4	80,91 oct.
Saugatuck-Douglas(Douglas)	2 S;hwy W.		26 S1	73 oct. Data unverified.
(L) Austin Lake (Kalamazoo)(NC)	8 SSE;RR E	855	100 S4	80 oct. Boat;beach;tractor.
‡ Interstate (No. Muskegon)	0.3 S	581	100	Ramp;boat;dolly.(NC)

OHIO

Archbold Int,18,CG-LG	3.5 NNW;RR N	716	28 R1 L3	
Bryan-Defiance Memorial (Defiance)	5.2 NW;riv E	705	31 S2	73,80 oct.Pole line S,E.
Grieser (Wauseon)	2.5 E;RR N	750	24 S1	80 oct.
(P) Lima	4 WNW;RR N	830	42 S6	80,91 oct.Pole line N.
Paulding County (Paulding)	2.5 NE;RR W	720	26 S2	80 oct. Poles S.Data not verif.
Skinner (Hicksville)	1.6 NNW;RR S	810	26 S1	73 oct.Obst sur fld.
Van Wert	1WSW;hwy S	785	26 S6	80,91 oct. Poles N,S,NW,NE

RADIO

MICHIGAN

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISHOP (Flint)	278	CI	3105,4495(prior req only)
DETROIT CITY (Detroit)	278	C	(4)
DETROIT NAS	269(142.74)	CN	(3);142.74 (8-17)
DETROIT	201 (D)	K; 329°,2.2	Detroit City Arpt.
FLINT	335 (FN)	MHT	(4)
ROMULUS	230 (DT)	SBRAZ-DT	(4)
Romulus AAF	219 (126.18)	CA(ILS);86°,2.5	(4); 126.18.
SAGINAW	212 (SI)	MHT	(4) (6-22)
SALINE FM	(- - -)	FM, 261°,20	Romulus
SELFRIDGE (Mt.Clemens)(Army)	388 (DLD)	SBMRAZ	(3); 126.18
Selfridge Field	396 (126.18)	CA(ILS);119°,2	(3) only
WIXOM FM	(- - - -)	FM, 344°,20	Romulus
YPSILANTI (Willow Run)	414 (DYP)	MH; 360°,0.5	Oper cont.
Willow Run Airport	332	CI	(4) (8-24)

OHIO

AKRON	362 (AX)	BMRLZ-DT	(4)
Akron Airport	272 (126.18)	C; 45°,0.4	(4);116.1,131.9,126.18
AKRON LFM	(-)	LFM, 45°,4.5	Akron
AVON LAKE LFM	(- - - -)	LFM, 325°,8.1	Cleveland
BOWLING GREEN FM	(- - -)	FM, 201°,10.3	Toledo
BRECKSVILLE FM	(-)	FM, 100°,13	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX,100°, 0.7	(4)
ELYRIA FM	(- - -)	FM,280°,10.9	Cleveland
FINDLAY	209 (JF)	MH	(4)(cont.)
HAYESVILLE (Int.)	329 (HA)	BMHT	(4)(cont.)
HOMERVILLE FM	(. . -)	FM, 31°,83	Columbus
NORTH ROYALTON LFM	(- -)	LFM,145°,10.8	Cleveland
PERRY (Int.)	332(PE)(116.1)	MHVT	(4); 116.1
PORT CLINTON	275(PY)(116.1)	MHVT	(4); 116.1
TOLEDO	239(TL)(116.1)	SBMRAZ-VDT	(4); 116.1
Toledo Airport	263	C; 10°,2.7	(4)
VERMILION FM	(. . - - -)	FM, 280°,26	Cleveland

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ROMULUS AAF, MICH.	109.9		50° Mag.	IM (.07)	MM ·····(.98)	OM --(4.27)	
					MMK	OMK	
SELFRIDGE, MICH.	109.5	332.6	184° Mag.	IM (.23)	MM ·····(.81)	OM --(4.31)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen's (Pontiac)	5.5 NNE; RR W	1020	26 S6	80 oct. Trees S, SW, SE.
Ann Arbor	4 S; RR E	835	28 L2 S6	80 oct. Trees NE.
Baker's (Port Huron)	3 NNW; RR NNE	585	24 S6	80 oct. Poles N, S, NE.
Berz (Birmingham)	1.5 E; RR SW	700	25 S1	73,80 oct. Pole line N.
Big Beaver	0.8 E; hwy W	650	21 S4	80 oct. Pwr line N.
(P) BISHOP (Flint)	4 SSW; RR NW	781	50h R2 L5 S5	80 oct.
Burns (Detroit)	8.5 WSW; RR N	625	19 S6	73 oct.
Caro	3 WSW; RR SE	699	22 S2	80 oct.Poles E.
Center (Armada)	2.3 W; RR S	666	25 S1	80 oct. Pole line NNE.
Croswell City	1 W; RR,riv E	732	25 S2	80 oct. Trees S, E.Rcv req.
(N) Detroit NAS (N)	17 SSW	594	47h R1 L5 S6	91,100 oct. ARPT OF ENTRY
DETROIT CITY (Detroit)	5.5 NE; RR S	625	53h R1 L4 S6	73,80,91 oct.Tank W side.
Ford (Detroit)	8.8 SW; RR N	600	37h	PRIVATE.
Forrest (Fostoria)	2.4 S; riv SE	830	26 S1	80 oct.Pole line sur fld.
‡ Hance (Trenton)	5 NNE	574	Unl S1	73,80 oct.Beach,ramps.
Hance (Wyandotte)	2.5 W; hwy W	590	33 S6	73 oct. No sto.
Hartsell Air Term.(Wayne)	3.5 NW; RR E	675	18 S6	80 oct. No sto.
Howell	0.8 N lake E	930	20 L1 S1	73 oct.
James Clements (Bay City)	3.5 S; riv S, W	599	36 S4	80 oct.
‡ Algonac	2.8 W	574	50 S1	73 oct.
‡ Detroit Seapl. Patrol	4 ENE	575	Unl S1	73 oct.Dock E.Belle Isl. S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted.

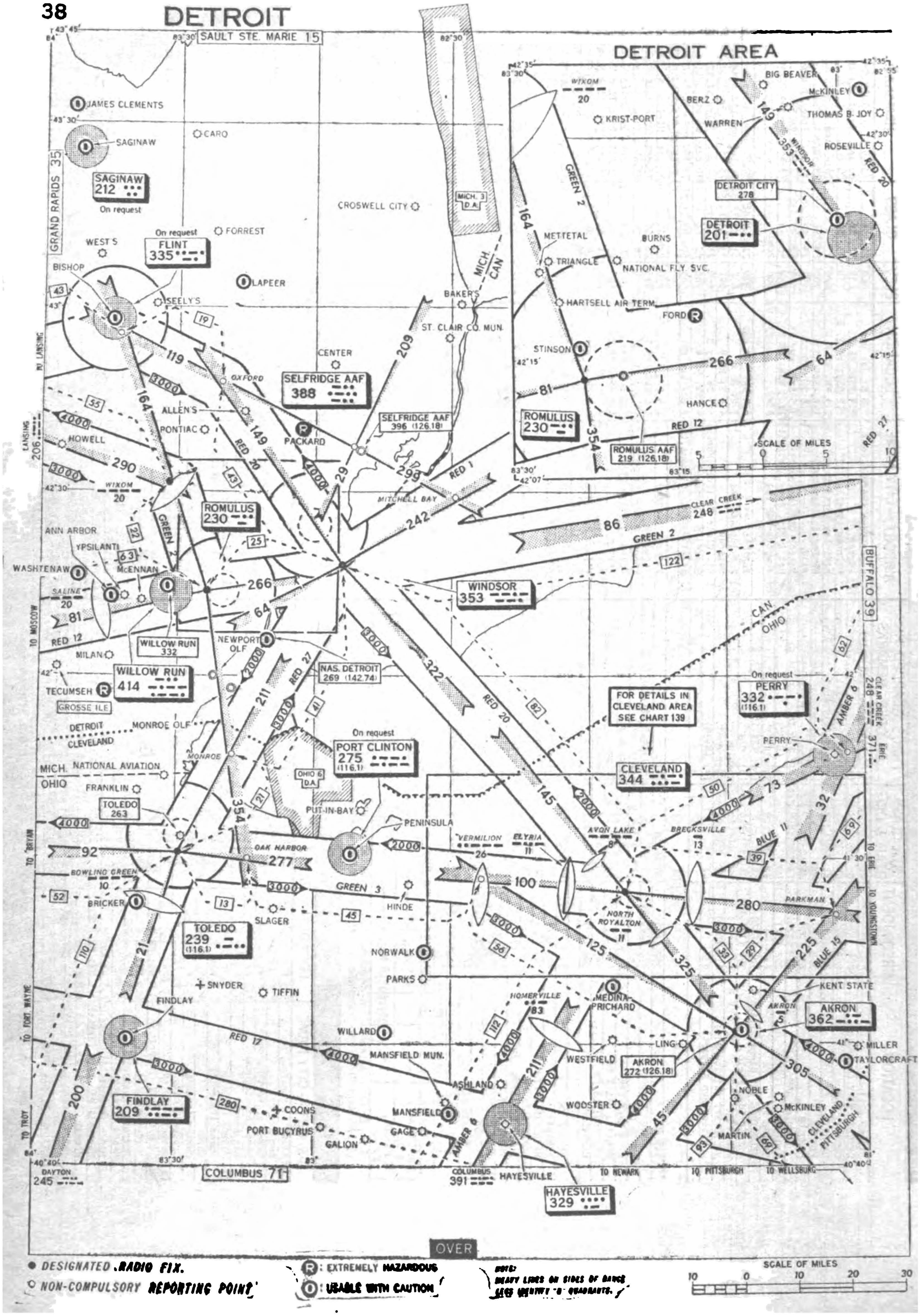
MICHIGAN

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Kriat-Port (Farmington)	3.8 N; jct rds	860	27 S6	73,80 oct. Obsts sur fld.
(P) Lapeer	2.4 ENE; RR S	830	32 S6	80 oct. No sto.Poles NW.
McEnnan (Ypsilanti)	2.7 SSW; rd E, S	738	23 S4	80 oct.
McKinley (Fraser)	1.3 NW, RR E	620	27	Pole line E, NE.
Mettetal (Plymouth)	1.5 SSE; RR E	700	23 S6	73,80 oct. Poles N, W.
Milan	3.8 SW; RR SE	705	23 S2	73 oct. Pole line N.
(N) Monroe OLF (Newport)	3.5 SSE; hwy SE	590	29 S4	73 oct. No sto.
Nat'l Fly. Serv.(Detroit)	11.5 WSW; RR N	635	30 S4	73 oct. No sto.Poles NE, NW.
(N) Newport OLF (N)	3 W	608	20h	
Pontiac	6.4 WNW; RR NE	970	21h L4 S6	80,91 oct. Poles S.
(A) Romulus AAF (A)	3 E; RR N	630	61h R3 L5 S6	91,100 oct.Ltd svcg.ARPT OF
Saginaw	4.5 E; RR N	601	33 R1 L4 S4	73,80 oct.Poles S,SE,SW ENTRY
St. Clair Co.(Port Huron)	5.5 SW; hwy S	650	23 L1 S5	80 oct. Poles NE,SE,SW,NW.
Seeley's (Davison)	4 WSW; RR N	780	20 S6	80 oct. No sto. Poles N.
(A) Selfridge(Mt. Clemens)(A)	3 E; lake NE	583	60h R3 L5 S6	73,100 oct. JP-1. Poles E. FOREIGN CLEARING STATION.
Stinson (Wayne)	1.4 SW; RR E	660	25h S1	80 oct. Hi-line N, NE.
Tecumseh	1.8 NNE; RR W	815	26 S6	73 oct. Pole line S.
Thomas B.Joy (Detroit)	13 NE; hwy E	616	24 S6	73,80 oct.No sto.Trees SW.
Triangle (Plymouth)	1.5 ESE; hwy S	700	26 S4	80 oct. 30' poles N.
Warren	1.6 WNW; RR E	625	23 S1	73 oct. Pole line N.
West's (Clio)	4 SW; RR E	690	21 S1	73 oct. Pole line E, NE.
Willow Run (Ypsilanti)	4 E;RR N; riv S	710	74h R2 L5 S1	90,100 oct.Rdo rec req.
Wings (Utica)	2.5 SW; RR E	630	26 S6	73,80 oct.Poles N;stumps NW
Ypsilanti	4.4 WSW; RR NW	840	24 S5	80 oct. Pole E; woods N.
Roseville	0.5 S;hwy W	610	29 S6	73,80 oct.Poles S,SW.

OHIO

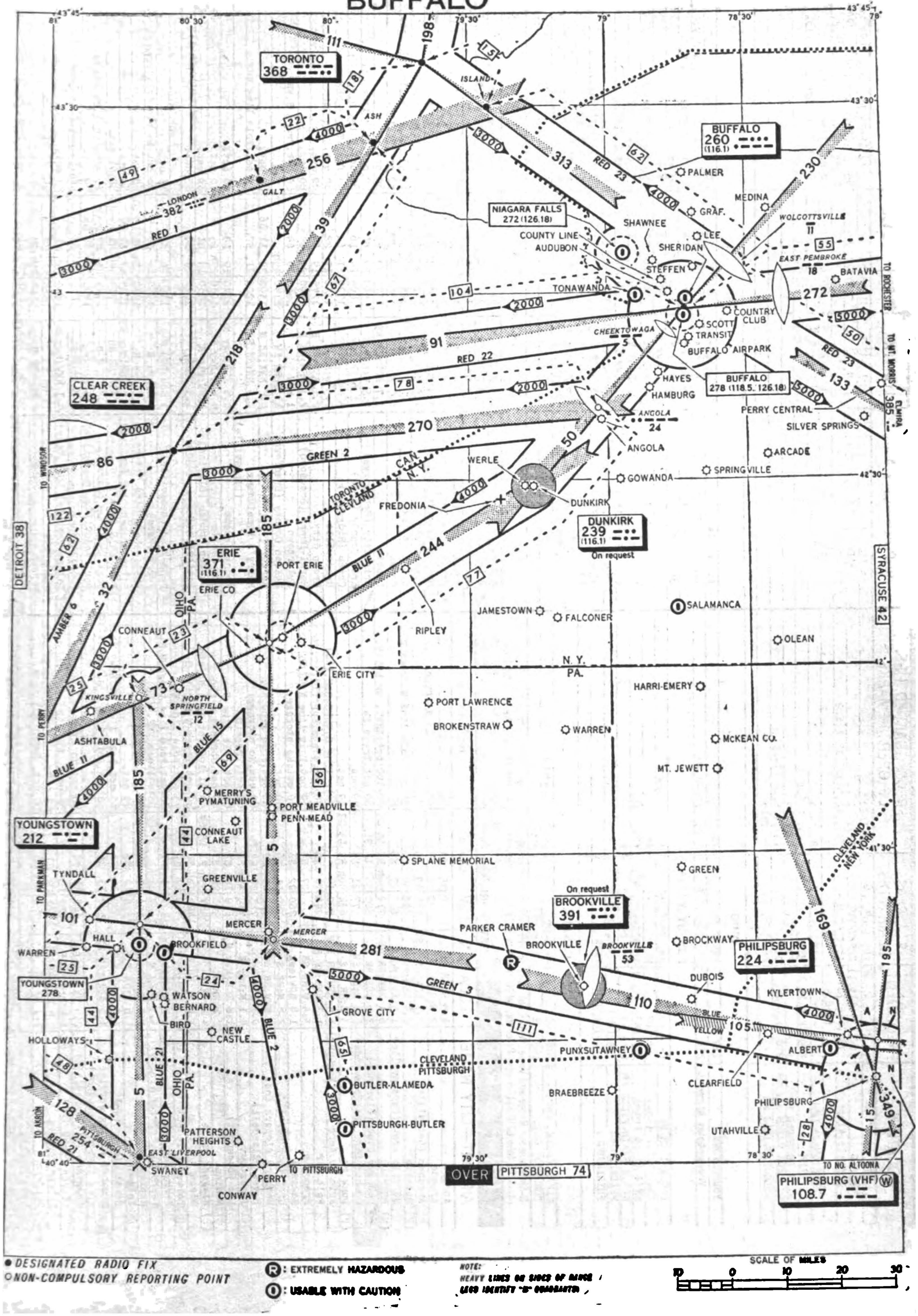
(P) AKRON	3.4 SE; RR W	1043	44h R2 L5 S4	80,100 oct. No sto.ARPT OF
Ashland	1.8 N	1079	23 S2	73,80 oct. Pole line W ENTRY
Bricker (Bowling Green)	1 NE; RR W	675	30 S4	80 oct.
Coons (Nevada)	0.3 NE; RR S		21 S2	80 oct. Data not verified.
Penwick (Kellys Island)	1.3 NE	600	18	(NC)
Findlay	1.5 SSW; hwy NW	800	27 R1 L3 S4	80 oct.
Franklin (Toledo)	4.5 WNW; RR S	630	32 S4	80 oct. Pole line all sides.
Gage (Mansfield)	4.5 W; RR SE	1360	13 S2	73 oct.
Galion	1.5 WNW; RR SE	1155	18 S2	80 oct.
★ Hayesville Int,27,LV-CV	2.5 WNW; hwy S	1300	30 R1 L3	
Hinde (Sandusky)	2.8 E; RR S	574	30 S6	73oct.Poleline S.ARPT OF ENTRY
Kent State	2.8 W; RR S	1120	36 S4	80 oct.No sto.Pole line N.
Ling (Barberton)	3 WSW; RR N	1150	30 S6	80 oct, Obsts sur fld.
McKinley (Canton)	2.3 NE; hwy SE	1100	32 S4	80 oct. Poles N,S,E.
Mansfield	3.8 N; RR E	1300	26h L S6	73,80 oct. Pole line SW,W.
Martin (Canton)	4 NNE; hwy SE	1080	30 L S6	80 oct. Pole line sur fld.
Medina Prichard (Medina)	3 WNW; RR NW, SE	1060	25 S6	80 oct.No sto.Poles S.
Miller (North Benton)	1.5 W; RR SE	1070	28 S4	73 oct. Poles S.
National Aviation(Toledo)	4.1 NNE; RR E	595	38 S6	91 oct. Pole line S,W,NNE.
Noble (Massillon)	4.5 NNE; hwy W	1080	22 S6	80 oct.No sto. Pole SSW.
Norwalk	0.8 NE; RR W	700	18 S2	73 oct. Pole line W.
" Airpark (NC)	2 NNE; RR W	690	29	Poles W, SW.
Parks Airpark (Norwalk)	4.5 S; hwy E, W	880	29 S1	80 oct. Poles E.
Peninsula (Port Clinton)	3.5 E; RR S	587	36 R1 L3	
★ Perry Int,4B,CV-A?	2.3 NE; RR S	692	26 R1 L3	Poles E.
Port Bucyrus (Bucyrus)	2 S; RR NW, E	1000	26 S6	80 oct. Poles E. ARPT OF
Put-In-Bay	1.2 SSW	590	16	Poleline NW.PRIVATE. ENTRY.
Slager (Fremont)	2 NW;RR SW	630	19 S6	73,80 oct.No sto.Poleline
Snyder (Fostoria)	1 E; reservoir SSW		32 S1	80 oct.Data unver. N.E.SE.
Taylorcraft (Alliance)	2.5 NNE; RR SE	1170	22h S5	80 oct.No sto.Poles sur fld.
Tiffin	1.9 N;RR W	750	26 S4	80 oct.Poles E.
TOLEDO	8.2 SSE;RR W	621	42h R2 L5 S4	73,83,91 oct.
Wellington	Adj NW; RR W	850	20 S2	80 oct.Stacks NE.Data unver.
Westfield (LeRoy)	1.2 SSE;RR E, S	1030	16 16 S4	80 oct.No sto.
Willard	1.6 SSW;RR NE	960	22 S2	80 oct.Poles W.
(P) Wooster	3 NNE;hwy SE	1150	32 S6	80 oct.Poles S, SE.
Mansfield,mun	5 N	1300	56h S1	73,80,91 oct.
Washtenaw (Ann Harbor)(NC)	5 W		26 S2	80 oct. Hi-line S.Data unver
‡ Motor Boat (Detroit)	6 ENE	575	Unl S1	Dock. Peach Island S.
⊕ Whitemore Lake	1 NNE	894	84 S4	Beach;boat;ramp.

DETROIT



OVER

BUFFALO



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF AIRWAYS INDICATE "B" BOUNDARIES

SCALE OF MILES
10 0 10 20 30

RADIO

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANGOLA FM	(. . - - -)	FM, 230°, 24	Buffalo
BUFFALO	260(BJ)(116.1)	SBRAZ-VDT	(4); 116.1
Buffalo Airport	278 (126.18) (118.5)	AC;230°,0.9	(4);118.5,126.18,131.9
CHEEKTOWAGA LFM	(- - -)	LFM, 50°,4.7	Buffalo
DUNKIRK	239(DK)(116.1)	MHVT	(4); 116.1
EAST PEMBROKE FM	(- -)	FM, 92°, 17.5	Buffalo
NIAGARA FALLS AIRPORT	278 (126.18)	CI	(4);126.18 (7-23)
WOLCOTTSVILLE FM	(-)	FM, 50°, 11	Buffalo

OHIO

YOUNGSTOWN	212 (CT)	BRAZ-DT	(4)
Youngstown Airport	278	CI; 185°,3.5	(4); (730-2330)

PENNSYLVANIA

BROOKVILLE FM	(- - -)	FM, 290°, 53	Philipsburg
BROOKVILLE (Int.)	391 (BR)	MH	(4)
ERIE (Port Erie)	371(ER)(116.1)	SBMRAZ-VDT,64°,2	(4); 116.1
NORTH SPRINGFIELD FM	(- - -)	FM, 253°, 12	Erie
PHILIPSBURG	224 (MJ)	SBRAZ-DT,169°,5	(4)
PHILIPSBURG	108.7 (MJ)	VARW	

CANADA

CLEAR CREEK, ONT.	248 (QO)	BRAZ-DT	(4),3232.5(N),5632.5 (D)
TORONTO, ONT.	368 (YZ)	SBRAZ-DTX	3105,6210,3117.5

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Angola	1.4 N;RR SE	610	15 S1	80 oct.
Arcade	2 N;RR E,W	1740	22 S4	Ltd 80 oct.No storage.
Audubon (Getzville)	1.7 SSW;RR N,SW	580	19 S6	80 oct.
(P) Batavia	2.4 NNE;rd W	910	30 S6	80 oct.Pole line W.Trees E.
Buffalo Arpk (Gardenville)	1.5 ENE;rd S	680	27 S6	80 oct.
(N) BUFFALO	6.1 ENE;RR NE	712	56h R2 L6 S6	80-100 oct.ARPT. OF ENTRY.
Country Club (Clarence)	2.3 SSE;RR S	800	36 L S6	80 oct.Trees SW.
County Line (No.Tonawanda)	3.4 E;RR SW	577	21 S4	80 oct.
(P) Dunkirk	3 E;RR N,S	692	40h R1 L5 S2	80 oct.
Erie Co.Aero Park (Hamburg)	3.5 WSW;RR E,W	750	18	Pole line S.UNUSABLE.(NC)
Falconer	1.3 NNE;RR S	1250	22 S4	80 oct.Obsts sur fld.
Fredonia	3.5 W;RR SE		27 S2	80 oct.Pole line N,NE,E.
Gowanda	1.4 NNW;crk W	760	22 S6	80 oct.No storage.
Graf (Lockport)	2.8 N;RR S	380	15 S6	80 oct.
Hamburg Airpark Inc.	2 NNW;RR,hwy W	722	23 S2	80 oct.Pole line NE.
Hayes (Blasdell)	0.7 SSE;RR E,W	723	20 S4	80 oct.No storage.
Jamestown	4.1 N;hwy E	1719	27h S6	80 oct.Trees S.
Lee (Lockport)	1.8 SSE;hwy N	640	18h S2	80 oct.Pole line N.
Medina	2 W;RR S	500	21 S1	80 oct.Obsts sur fld.
(P) Niagara Falls	4 E;RR N	587	55h R1 L5 S4	80,91,100 oct.JP-1.No sto.
Olean	1.8 SE;RR N	1440	22 S6	80 oct.Trees W,N;hill S.
Palmer (Olcott)	1.2 SSW;RR S	315	17 S2	73 oct.Pole line E.
Perry Central	1.7 NNW;lk SSW	1400	23 S1	80 oct.Pole line,trees N,E.
Perry Fly.Service (Perry)	3.3 W;RR W	1640	21	Pole lines NNE. (NC)
Ripley	1.4 WNW;lake N	650	22 S4	80 oct.No storage.
Salamanca	1.6 W;RR N,S	1370	12 S6	80 oct.
Scott (Lancaster)	1.5 E;RR N,S	680	22 S1	80 oct.Pole line SW.Rnwy data unverifie
Shawnee Flying Service (North Tonawanda)	4.5 NNE;riv SE	580	33 S6	80 oct.Pole line E,W.
Sheridan (Williamsville)	2.5 NE;hwy SE	640	38 S6	80 oct.No storage.
Silver Creek (NC)	1 WSW;hwy SE	720	11	Trees E, NW.
Silver Springs	0.5 E;lake NE	1420	15 S1	80 oct.
Ⓣ Buffalo	7.3 NW	570	103 S6	80 oct. Ramp; all face.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) (NC)-Not charted.

NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Springville	1.5 NE;RR W	1395	26 S4	80 oct.Pole line N,E.Rnwy info unver.
Steffen (East Amherst)	3.5 N	582	22 S6	80 oct.Obsts sur fld.
Tonawanda	3 SSW;RR E	610	30h S4	80 oct.Rough.Obsts sur fld.
Transit (Depew)	2 SSW;RR N	670	13 S2	80 oct.Trees,bldg E.
Werle (Dunkirk)	1.8 ENE;RR N,S	640	22 S1	80 oct.Poles,trees sur fld.
Westfield(NC)	1.5 WSW;hwy N	758	18 L1	S blocked.

OHIO

Ashtabula	3.1 W;lake N	621	17 S2	80 oct.
Barnard (Youngstown)	3.4 E;lake NE	1140	28 S6	73,80 oct.Pole line N,S,W.
Bird (Youngstown)	2.6 NE; RR W	1000	22 S4	80,91 oct.Pole line W,N.
Brookfield	0.8 W;RR W	1130	20	Poles N,E.
Conneaut	2 ESE;hwy S	670	18 S1	80 oct.
Hall (Warren)	3.5 ENE;RR NW	900	26 S2	73,80 oct.Poles E.
Hollaways (Greenford)	1 ENE;RR W	1250	15 S1	80 oct.Wires E.
Sky Harbor (Williamsfield)	1 S;hwy E	1140	26	Poles E. (NC).
Swaney (East Liverpool)	4.9 NW;crk SE	1170	22 S2	80 oct.
Tyndall (Warren)	6 NNW;RR E	940	30 L1 S4	80 oct.No storage.
Warren Airways	2.3 WNW;RR S,E	900	22 S2	73 oct.Trees S.
Watson (Youngstown)	3.8 E;lake S	1080	17 S2	Ltd 73,80 oct.
YOUNGSTOWN	11 N;hwy E	1178	39h R2 L5 S6	73,80,91 oct.

PENNSYLVANIA

Albert (Philipsburg)	2.3 ENE;rd N	1630	31 S2	80 oct.Pole line S,E.
Braebreeze (Marchand)	0.3 N;RR NW	1650	18 S2	80 oct. Trees N,NE.
Brockway	1.3 NE	1700	18	
Brokenstraw (Youngsville)	2.6 W;RR S	1230	17 S4	73 oct.
★ Brookville Int,45A,CG-LG	2 WSW;RR E	1400	30 R1 L3 S1	80 oct.
Butler-Alameda (Butler)	3.4 WNW	1340	24 S6	80 oct.Pole line E.
Clearfield	1.5 WSW;RR SE	1220	20 S1	80 oct.Pole line NE.
Conneaut Lake	1.7 WSW;hwy SE	1250	18 S2	80,91 oct.Pole line SE end.
Conway	0.7 N	950	24 S4	80 oct.Hill N.
Dubois	1.7 ESE;RR NE	1575	30 S6	80 oct.
Erie City (Kearsarge)	0.5 W;hwy E	900	29 S6	80 oct.Pole line SE.
Erie County (Erie)	11.6 SW;hwy N	805	24 S6	80 oct.Poles N,E,S.
Green (Ridgeway)	3 NW;hwy,RR E	1720	21 S2	No fuel.Trees NNW.
Greenville	2.3 W;RR E	1180	17 S2	80 oct.Pole line S.
Grove City	2.1 SSE;RR E	1275	19 S4	80 oct.
Harri-Emery (Bradford)	2.3 WSW;RR E	1490	20 S4	80 oct.
Kylertown	1 WNW	1660	40 S4	80 oct.Trees S,WNW.
McKean County (Bradford)	11 S;RR SW	2140	45h	
Mercer	4.8 NNE;RR W	1300	20 L1 S6	80 oct.
Merry's Pymatuning (Linesville)	1.5 NW;RR E	1200	21 S2	73 oct.Pole line NNE.
Mount Jewett	0.8 ESE;Hwy N	2240	19 S4	80 oct.
New Castle	4 WNW;hwy SE	1080	29h S5	80 oct.
Parker Cramer (Clarion)	1ENE;riv N	1480	18 S1	80 oct.
Patterson(Beaver Falls)	1.5 S;RR,riv E	1020	26 S4	80 oct.
Penn-Mead (Meadville)	3 SSW;hwy E	1365	20 S2	73 oct.
Perry (Mars)	5 E;hwy E	1060	16 S6	80 oct.No sto.Pole line E.
Philipsburg,Site 51A,CG-LG	7 E;hwy N	1940	30h R1 L3 S1	80 oct.
Pittsburgh-Butler (Butler)	6.7 SSW;hwy E	1235	49 L1 S6	80 oct.
PORT ERIE (Erie)	6 WSW;RR SE	735	46h R1 L5 S6	80,91 oct.
Fort Lawrence (Corry)	1.2 S;RR N	1745	23 S2	73 oct.Pwr line NW.
Port Meadville (Meadville)	3.4 W;hwy S	1400	32h L4 S6	80 oct.
Punxsutawney	3 NE;hwy S	1470	22 S2	Ltd 80 oct.Pole line ESE,S.
Splane Memorial (Oil City)	4.1 NNW;hwy E	1490	22h S1	80 oct.
Utahville	1N;RR S	1800	22 S2	Ltd 73 oct.
Warren	2 WSW;RR N	1100	23h S4	80 oct.
† Beaver	0.5 S	670	50 S1	80 oct. Boat;beach;ramp.
† Edinboro	1.2 NNW	1200	Unl S1	Ltd fuel.Beach;boat;haulout.
† Rochester	0.5 S	670	78 S1	80 oct. Float;boat.

RADIO

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.GUARDED, HRS. OF OPER., REMARKS
DANSVILLE	212(DA)(116.1)	MHVT	(4); 116.1
ELMIRA (Chemung Co.)	385(EA)(116.1)	SBRAZ-VDT,75°,1.8	(4); 116.1
ROCHESTER	206(RC)(116.1)	BMRLZ-VDT	(4);116.1
Rochester Airport	278	CI;298°,2.2	3105,4495 (8-24)
ROME AAF	396 (126.18)	CA	(4); 126.18 (8-20)
SYRACUSE	350(SR)(116.1)	SBRAZ-VDT	(4);116.1
Syracuse Airport	278	C ; 178°, 2.2	(4)
TRI-CITIES (Endicott)	278	CI	3105(days)
UTICA	359(UA)(116.1)	BMRLZ-VDT,151°,3.0	(4);116.1
PENNSYLVANIA			
ALLENTOWN (Allentown-Bethlehem)	320(XA)(116.1)	SBMRAZ-VDT,192°,2.7	(4); 116.1
LAKE CARE FM	(- - - -)	FM, 359°,20.8	Wilkes-Barre
SLATINGTON FM	(- - - -)	FM, 290°, 12	Allentown
SUNBURY	353(SV)(116.1)	MHVT	(4);116.1
SUNBURY	108.3 (SV)	VARW	
WILKES-BARRE (Wilkes-Barre-Wyoming Valley Airport)	272 (WI)	SBMRAZ-DT,243°,2.6	(4)
WILLIAMSPORT	233 (IA)	BMRLZ-DT,281°,7.5	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NEW JERSEY

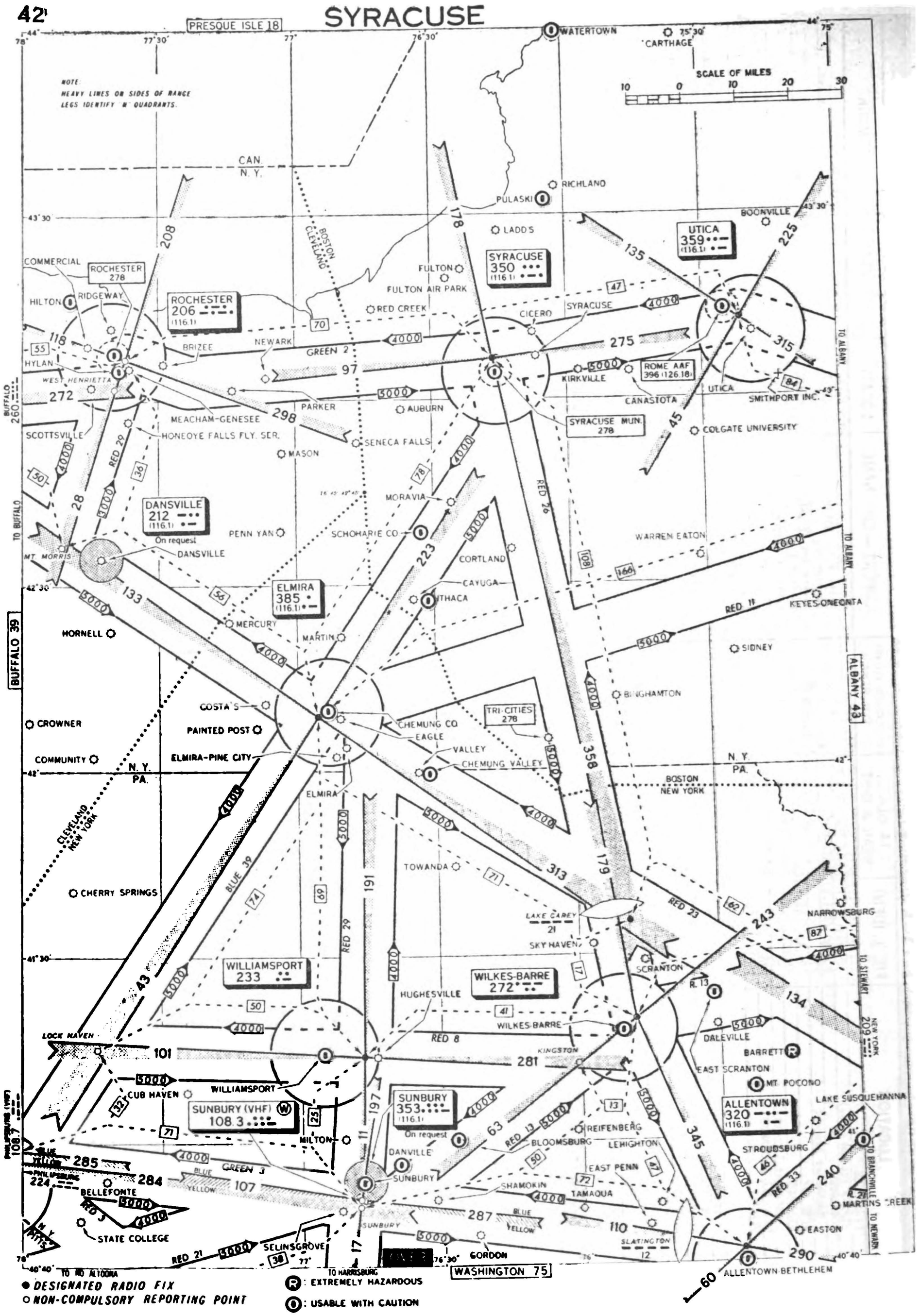
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lake Susquehanna(Blairstown)	2.3 WSW;RR S	380	28 S6	80 oct.
Martins Creek, Belvidere	3 SSW;riv SE	340	25 S6	80,91 oct.Pole line N.
NEW YORK				
Auburn	3.7 NNW;lake E	525	24 S4	80 oct. Poles,trees sur fld.
Binghamton	7.2 NNE;RR NW	940	18 S2	80 oct.Trees N.
Bonnie Brae (Owasco)(NC)	1.7 SW;RR W	960	17	Cattle on fld.
Brizee (Pittsford)	2 E;RR N	422	25 S4	80 oct.Pole line S,NW.
Canastota	1.3 WSW;RR N	540	22 L1 S1	80 oct.
Carthage	1 E;RR NW	740	20 S1	80 oct.
Cayuga (Ithaca)	3.8 WNW;hwy E	1280	23 S1	80 oct.Pole line E.
CHEMUNG CO. (ELMIRA)	6.5 NW;RR S	951	40h R1 L5 S4	80,91,100 oct.
Cicero	0.5 NW;lake SW	416	21 S4	80 oct.
Colgate Univ. (Hamilton)	5.4 N;RR W	1178	25 S6	80 oct.
Commercial (Rochester)	7.3 WSW;RR S	570	18 S4	80 oct.Pole line W.
Community (Whitesville)	1.3 E;riv 1 N	2180	30	20-40' trees E,W,S.
Cortland	1.8 WSW	1144	30 S6	80 oct.Wooded ridge E.
Costa's (Painted Post)	2.7 NW;RR SSW	960	16 S1	80 oct.Trees W,NW.
Crowner (Wellsville)	1 W;RR E	1506	22 S2	80 oct.Obsts sur fld.
(P) Dansville	1 NW;RR NE	662	40h R1 L3 S6	80 oct.Pole line N.
Eagle Airpark (Horseheads)	1.8 SSW;RR E	900	22 S1	80 oct.Trees S,W.
Fulton	2.6 NNE;rd W	469	40h L2 S4	80 oct.No sto.Lgts prior req.
Fulton Airpark	0.5 W;riv E	360	18 S6	80 oct.12' brush WNW.
Hancock (NC)	1.5 SSE;RR E	905	17	Hills SSE,NNW.
Hilton	2.6 WSW;RR N	325	16 S1	80 oct.3' fence E,S,SE.
Honeoye Falls Flying Svc.	0.8 SW;RR E	700	20 S4	80 oct.Pole lines NE,NNW.
Hornell	3.5 NNW;RR SW	1170	24 S6	80 oct.Wooded hills sur fld.
Hylan (Rochester)	6 S;RRs N,S,W	525	27 S6	80 oct.Trees E.
Ithaca	1.3 NW;inlet E	386	25h S6	80,91 oct.No storage.
Keyes-Oneonta (Oneonta)	1.5 W	1000	27 S4	80 oct.Obsts sur fld.
Kirkville	0.3 W;RR N,W	434	19 S1	80 oct.Pole line E.
Ladd's (Mexico)	0.6 W;RR N	383	20 S1	Ltd 73 oct.Pole line NE.
Martin(Montour Falls)	1 NE;RR W,E	460	13 S4	80 oct.
Mason (Geneva)	3.5 WSW;RR SE	790	19 S1	80 oct.Pole line S.
Meacham-Genesee (Rochester)	6 S;RR N	564	22 L S6	80 oct.Floodlgts in emerg.
Mercury (Hammondsport)	1 WSW;RR N	750	15 S2	80 oct.Hill W.
Elmira	2 SSW;RR E	890	16	Trees adj NE,S.
Elmira-Pine City (Elmira)	4.6 SW;RR S,E	980	14	Trees WSW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

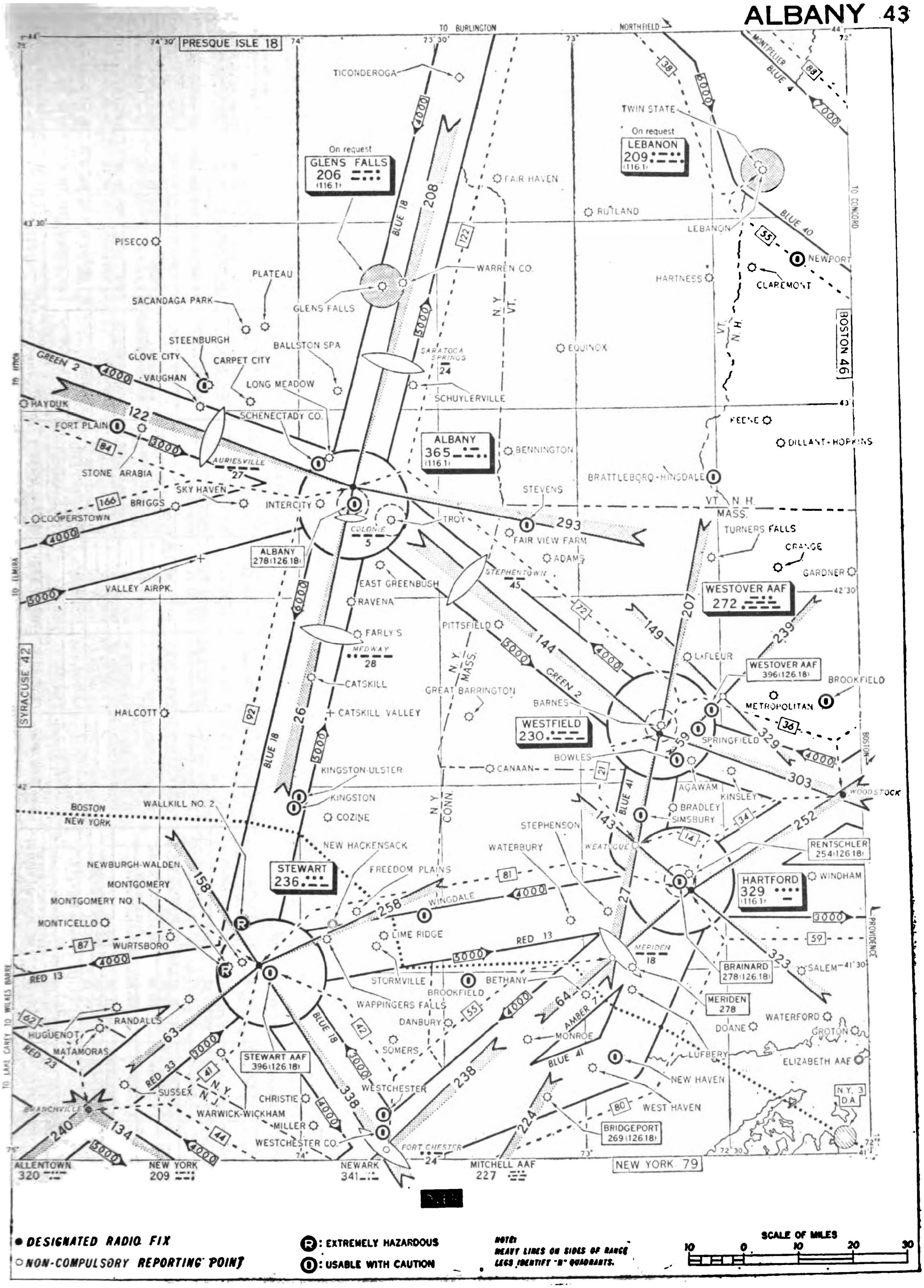
NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Minoa (NC)	0.3 NW;RR SW	430	14	Trees E.
Moravia Air Haven	1 NW;RR E	730	20 S1	80 oct.S approh blocked.
Narrowsburg	0.6 NNE;RR E	700	18 S4	80 oct.Mts N,NE.
★ Newark Int,27A,CV-AZ	1.3 NNW;rd N,E	490	19 L3	Pole N.
Painted Post	4.4 SW;RR W	950	19 S2	80 oct.Trees E,W.
Parker (Palmyra)	2.8 S;RR N	540	15 S1	80 oct.
Penn Yan	1.1 S;lake W	850	20 S2	80 oct.
Pulaski	3 SE;riv N	500	18 S4	80 oct.Trees WSW.
Red Creek	0.8 SSE;RR N	355	18 S1	80 oct.
Richland	0.6 NE;RR SW	560	21 S1	80 oct.Hi-line S.
Ridgeway (Rochester)	3.7 W;canal ESE	530	18 S1	80 oct.Pole lines W,NW,SE.
(N) ROCHESTER	3.7 SW;riv S	549	44h R2 L5 S6	80,91 oct.ARPT OF ENTRY
(A) Rome AAF (A)	2.5 NE	473	63h R1 L5 S6	62,73,91,100 oct.JP-1.
Scottsville	1 N;RR W	600	16	Allway area: 1000 x 1000'.
Seneca Falls	2:2 SE	490	28 S2	80 oct.Obsts sur fld.
Sidney	1 WSW;RR SE	1012	24 S4	80 oct.Pole line S.
Syracuse	3.5 NNE;hwy W	416	55h	
" MUNICIPAL	5.9 WNW;RR N	396	50h R2 L3 S6	80,91 oct.Rdo rec req.
Tri-Cities (Endicott)	3.5 WSW;riv S	840	35h R1 L3 S6	80,91 oct.Wooded ridge W,ESE.
Utica	7.8 NW;hwy S	525	31 R1 L1 S6	80 oct.Twr W;hill N;trees E.
Warren Eaton (Norwich)	2.5 N;riv,RR E	1015	20 S1	80 oct.Wooded ridge E.
(F) Watertown	5.9 WNW;hwy N	325	50h L1 S4	80 oct.Bcn on req.ARPT OF ENTRY.
Schoharie Co.(Richmondville)	1.3 NE; RR N	1000	16 S1	80 oct. Trees E.
Smithport Inc.(Utica)	2 S	1150	24	Data not verified.
PENNSYLVANIA				
BETHLEHEM (Allentown)	4.6 NNE;RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only. Fld lgts prior req.
Barrett (Canadensis)	1.8 N;hwy SW	1450	18 S2	No fuel. Trees E.
Bellefonte	4.3 ESE;hwy N	1045	21 L3 S6	80 oct.
Bloomsburg	0.8 ESE;riv S	478	32 L3 S6	80,91 oct.Pole lines SW, E.
Chemung Valley (Athens)	1.8 NNW;riv E	850	38 S4	73 oct.
Cherry Spgs. (Corbett)	2.4 W	2265	18 S1	Ltd 80 oct.Trees W,SE, NW.
Cub Haven (Lock Haven)	1.7 E;RR S	550	25h S1	80 oct. Pwr line E.
Daleville	0.6 N;hwy W	1775	19 S4	80 oct.Hill S.
Danville	2.2 SW;RR N	480	22 S3	80 oct.Hill SE.
Easton	3.5 NNW;RR W	380	22 S6	73-91 oct.Pole line N.
East Penn (Andreas)	1.5 NE;hwy S	700	18 S6	73 oct.
Gordon	1.8 W;RR E	960	18 S2	80 oct. Hill S.
Lehighton	0.9 WSW;hwy NW	502	18 S5	80 oct. Trees WSW.
Mid Valley (Olyphant)(NC)	3 N;rd NE	1385	20	
Milton	0.8 S;RR W	450	24 S6	80 oct.Pole line SW.
Mt.Pocono,21,BJ-LG	1.5 NW;hwy NE	1925	26h L3 S1	80 oct.Pole line NE.
Mt. View (Nicholson)(NC)	4.8 ENE;crk NW	1280	21	50' trees S.
Reifenberg (Hazleton)	5.8 NNW;rd E	1146	21 S4	80 oct.
Scranton	7.2 WNW;hwy N	1150	24h L3 S6	73-91oct. Fld lgts prior req.
Selinsgrove	1.1 N;hwy E	450	25 S2	73,80 oct.Pole line E,W.
Shamokin (Elysburg)	2 SE;RRs W	1100	16 S2	80 oct.
Skyhaven (Tunkhannock)	0.3 S;RR N	639	20 S1	80 oct.Pole line,trees SW.
State College Air Depot	3.4 E;hwy S	1200	19 S4	80 oct.Poles adj W.
Stroudsburg-E. Stroudsburg (Stroudsburg)	2.5 NNE;hwy S	426	22 S4	80 oct.
Sunbury	2 NNE	450	37 R1 L1 S6	80 oct. No sto.
★ Tamaqua,Int,61B,CG-LG	2.2 WNW;hwy W	1260	30 L3	
Towanda	1.5 SSE;RR W	700	25h S1	80 oct.Pole line SW,NE.
Valley Airpark (York)	3 ENE;RR N	420	21 S4	80 oct.Poles SSE,NNW.
Wilkes-Barre-Wyoming Valley	3.5 NNE;riv S	546	35h R1 L3 S4	80,91 oct.
Williamsport	5.1 E;riv S	526	43h R1 L5 S6	80,91 oct. Lgts prior req.
East Scranton (Scranton)	7.3 ESE;lake E	1660	23	Trees S, N.
Hughesville	0.6 S;crk E	570	12 S2	No fuel. Trees NE.
‡ Milton	1.5 SW	440	50 S	Svcg from Milton Arpt.

SYRACUSE


PRESQUE ISLE 18
WATERTOWN
CARTHAGE
SCALE OF MILES
10 0 10 20 30
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
CAN.
N. Y.
RICHLAND
PULASKI
LADDS
BOONVILLE
UTICA
359
(116.1)
SYRACUSE
350
(116.1)
ROCHESTER
206
(116.1)
ROCHESTER
278
COMMERCIAL
HILTON
RIDGEWAY
FULTON
FULTON AIR PARK
RED CREEK
CICERO
SYRACUSE
BRIZEE
NEWARK
GREEN 2
HYLAN
WEST HENRIETTA
KIRKVILLE
ROME AAF
396 (126.18)
CANASTOTA
UTICA
SMITHPORT INC.
PARKER
AUBURN
MEACHAM-GENESEE
HONEOYE FALLS FLY. SER.
SCOTTSVILLE
SENECA FALLS
MASON
SYRACUSE MUN.
278
COLGATE UNIVERSITY
TO ALBANY
TO BUFFALO
BUFFALO
260
DANSVILLE
212
(116.1)
On request
DANSVILLE
PENN YAN
MORAVIA
SCHOHARIE CO
MT. MORRIS
CORTLAND
CAYUGA
ITHACA
WARREN EATON
KEYES-ONEONTA
ELMIRA
385
(116.1)
MERCURY
MARTIN
HORNELL
BUFFALO 39
SIDNEY
BINGHAMTON
ALBANY 43
COSTA'S
CROWNER
PAINTED POST
CHEMUNG CO
EAGLE
VALLEY
CHEMUNG VALLEY
TRI-CITIES
278
COMMUNITY
ELMIRA-PINE CITY
N. Y.
PA.
ELMIRA
BOSTON
NEW YORK
CLEVELAND
NEW YORK
CHERRY SPRINGS
TOWANDA
BLUE 39
LAKE CAREY
SKY HAVEN
NARROWSBURG
WILLIAMSPORT
233
WILKES-BARRE
272
HUGHESVILLE
SCRANTON
LOCK HAVEN
WILKES-BARRE
RED 8
KINGSTON
DALEVILLE
BARRETT
EAST SCRANTON
MT. POCONO
LAKE SUSQUEHANNA
CUB HAVEN
WILLIAMSPORT
SUNBURY (VHF)
108.3
SUNBURY
353
(116.1)
On request
ALLENTOWN
320
(116.1)
REIFENBERG
MILTON
DANVILLE
SUNBURY
BLOOMSBURG
LEHIGHTON
STROUDSBURG
EAST PENN
SHAMOKIN
TAMAQUA
BELLEFONTE
STATE COLLEGE
SELINSGROVE
GORDON
SLATINGTON
EASTON
MARTINS CREEK
TO BRANCHVILLE
TO NEWARK
ALLENTOWN-BETHLEHEM
WASHINGTON 75
TO HARRISBURG
TO ALTOONA
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

ALBANY 43


PRESQUE ISLE 18
TO BURLINGTON
NORTHFIELD
TICONDEROGA
On request
GLENS FALLS 206 (116.1)
On request
LEBANON 209 (116.1)
TWIN STATE
MONTPELIER
BLUE 4
BLUE 18
BLUE 40
FAIR HAVEN
RUTLAND
LEBANON
TO CONCORD
PISECO
PLATEAU
WARREN CO.
SACANDAGA PARK
GLENS FALLS
HARTNESS
CLAREMONT
NEWPORT
BOSTON 46
N.Y.
VT.
N.H.
STEENBURGH
GLOVE CITY
CARPET CITY
BALLSTON SPA
SARATOGA SPRINGS
EQUINOX
GREEN 2
VAUGHAN
LONG MEADOW
SCHUYLERVILLE
HAYDUK
SCHENECTADY CO.
FORT PLAIN
STONE ARABIA
AURIESVILLE
ALBANY 365 (116.1)
BENNINGTON
BRATTLEBORO-HINSDALE
DILLANT-HOPKINS
KEENE
SKY HAVEN
BRIGGS
INTERCITY
COOPERSTOWN
TROY
STEVENS
FAIR VIEW FARM
TURNERS FALLS
ORANGE
GARDNER
ADAMS
ALBANY 278 (126.18)
VALLEY AIRPK.
EAST GREENBUSH
RAVENA
STEPHENTOWN
WESTOVER AAF 272
PITTSFIELD
FARLY'S
MEDWAY
LAFLEUR
WESTOVER AAF 396 (126.18)
BROOKFIELD
METROPOLITAN
SYRACUSE 42
CATSKILL
GREAT BARRINGTON
BARNES
HALCOTT
CATSKILL VALLEY
WESTFIELD 230
SPRINGFIELD
BOWLES
KINGSTON-ULSTER
CANAAN
AGAWAM
KINSLEY
WOODSTOCK
KINGSTON
COZINE
BRADLEY
SIMSBURY
BOSTON
NEW YORK
WALLKILL NO. 2
STEPHENSON
WATERBURY
WEATOGUE
RENTSCHLER 254 (126.18)
NEWBURGH-WALDEN
MONTGOMERY
MONTGOMERY NO. 1
STEWART 236
FREEDOM PLAINS
HARTFORD 329 (116.1)
WINDHAM
MONTICELLO
WURTSBORO
WINGDALE
LIME RIDGE
MERIDEN 18
BRAINARD 278 (126.18)
SALEM
STORMVILLE
BETHANY
BROOKFIELD
WAPPINGERS FALLS
DANBURY
MERIDEN 278
WATERFORD
GROTON
DOANE
RANDALLS
HUGUENOT
MATAMORAS
SOMERS
MONROE
LUFBERY
ELIZABETH AAF
NEW HAVEN
SUSSEX
N.J.
CHRISTIE
WESTCHESTER
WARWICK-WICKHAM
MILLER
WEST HAVEN
BRIDGEPORT 269 (126.18)
STEWART AAF 396 (126.18)
WESTCHESTER CO.
FORT CHESTER
ALLENTOWN 320
NEW YORK 209
NEWARK 341
MITCHELL AAF 227
NEW YORK 79
TO ELMIRA
TO LAKE CARRY TO WILKES BARRE
PROVIDENCE
BOSTON
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO — CONNECTICUT

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BRAINARD (Hartford)	278 (126.18)	C	(4), 131.9, 126.18
BRIDGEPORT ARPT	269 (126.18)	C	(4), 116.1, 131.9, 126.18
E. HARTFORD (Rentschler)	254 (126.18)	CI	(3) only
HARTFORD (Brainard)	329(HT)(116.1)	SBMRAZ-VDT, 323°, 2.3	(4); 116.1
MERIDEN FM	(- - -)	FM, 244°, 17.6	Hartford
MERIDEN ARPT.	278	CI	3105,4495 (Guard)
MASSACHUSETTS			
WESTFIELD (Barnes)	230 (WJ)	BMRLZ-DT, 270°, 1.7	(4)
WESTOVER (Chicopee Falls)(Army)	272 (DO))	BMRAZ	(3)
Westover Field	396 (126.18)	CA(LS), 230°, 2.7	(3), 126.18
NEW HAMPSHIRE			
LEBANON	209(LP)(116.1)	MHVT	(4), 116.1
NEW YORK			
ALBANY	365(AZ)(116.1)	SBRAZ-VDT	(4), 116.1
Albany Airport	278 (126.18)	C, 196°, 3	(4),126.18,116.1,140.1, 131.9
AURIESVILLE FM	(- - - -)	FM, 302°, 27.2	Albany
COLONIE LFM	(- - -)	LFM, 206°, 5.7	Albany
GLENS FALLS	308(GB)(116.1)	MHVT	(4), 116.1
MEDWAY FM	(. . - - -)	FM, 208°, 27.8	Albany
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
SARATOGA SPRGS FM	(-)	FM, 28°, 24	Albany
STEPHENTOWN FM	(- -)	FM, 324°, 45.3	Westfield
STEWART FIELD	256 (SW)	BMRLZ-DT	(4)
Stewart Field	396 (126.18)	CA, 125°, 2.5	(3), 126.18 (7-23

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in oct. Compass Locators in ital.)

LOCATION	LOCALIZER FREQ.	FLAP'N. BEAR.	MARKER IDENT & MILEAGE (FEIS COMPASS LOCATORS)		
WESTOVER, MASS.	109.9	333.8	239°Mag	IM (.49)	MM ..... (.79) OM -- (3,381)
				HMK	OMK
WESTOVER, MASS.	109.5	332.6	59°Mag	IM (.62)	MM ..... (.72) OM -- (4,467)
				HMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bethany	1.3 N,hwy E	680	21 L2 S6	80,91 oct.No ben.Lgts
Bradley (Windsor Locks)	2 W,hwy E	171	50h	Antenna S. prior req
BRAINARD(Hartf'd)	2.8 SE,RR W	19	48h R2 L5 S6	80,91,100 oct.Dike E,N.
(N,P) BRIDGEPORT	3.5 ESE	9	48h R1 L5 S4	80,91 oct.No svcg ngts, Sat or Sun.
Brookfield	0.3 S;RR,riv E		10 S6	80 oct.No sto.Data not verified.
Canaan	1 N,RR W	680	24 S6	80,91 oct.No sto.Pole line SW.
Danbury	2.5 SW,RR N	454	44h S6	80 oct.Poleline WSW, SSE.
Doane (Essex)	1.2 SW,RR E,N	30	21 S6	80 oct.No sto.Trees N,
‡ Greenwich	0.8 S	S.L.	Unl.	PRIVATE; Ramp NW, congested harbor.
Groton	2.8 SE,RR W	10	50h	
Kinsley (Somers)	2.5 NNW,RR W	200	19 S4	80 oct.
Lufbery (Wallingford)	0.5 WSW,RR E	80	22 S6	80 oct.No sto.Stacks S, N,
Meriden	2.7 SW,RR E	102	35 R1 L3 S6	80 oct.Hi-line W,S.
Monroe	0.7 SSE,rd E,W	620	20 S6	80 oct.
New Haven	3.5 SSE,crk W	4	43h S6	80,91,100 oct.No sto, Pole line NW.
Rentschler (East Hartford)	1 S,riv W	40	58h R1 L5 S6	80,91,100 oct.
Salem	2.1 E,lake NNE	400	21 S6	80 oct.
Simsbury	2.8 NNE,RR W	170	17 S6	80 oct.Trees SE.
Stephenson(Bristol)	1.5 ESE,RR N	240	18 S6	80 oct.
‡ United Acft Corp. (Stratford)(NC)	2 SW	8	53	Ramp. PRIVATE.
Waterbury(Plymouth)	2.6 S,RR E,W	843	20 S6	80 oct.
Waterford	1.7 N,RR SSE	60	20 S6	80 oct.Trees,hill S.
West Haven	2.7 SW,hwy E	15	18 S4	80 oct.No sto.Poleline E,W blckd.

(h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii))

AIRPORTS — CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Westport	2 S	S.L.	Unl. S4	80 oct.Float.Marine Ry
Windham	3.5 NNW,hwy S	238	44h S1	80 oct.Trees NE,ENE
MASSACHUSETTS				
Adams	1.3 SSE,RR W	1400	18 S1	80 oct.
Agawam Land & Seaplane Base	0.5 S,riv E	50	16 S6	80 oct.Pole line SE.
Ⓐ Agawam	1 SSE	30	100 S6	80 oct.Ramp,all facs.
BARNES(Westfld)	3 NNE,RR W	268	50h R1 L5 S6	80, 91 oct.
Bowles (Agawam)	2.4 WSW,trk E	190	40 S4	80 oct.Poleline S,SSE,
Brookfield	1 W,RR SW	680	20 S4	80 oct. W,NW.
Fair View Farm (Williamstown)	4 SW,riv E	954	23 S1	80 oct.Poleline ENE. Hill NNE.Lgt acft only
Gardner	2 SW,hwy N	1020	18 S4	80 oct.
Great Barrington	2 WSW,riv N	726	28 S6	80,91 oct.Obst sur fld
LaFleur (Northampton)	1.2 ENE,riv SW, N	120	26 S4	80 oct.No sto.
Metropolitan(Palmer)	5 N,riv W	400	19 S6	80 oct.Hill N.
(P)Orange	1.5 SE,hwy SE	555	50h S1	80 oct.Poles NE.
Pittsfield,3B,AZ-BW	2.4 WSW,hwy NW	1140	27 L3 S1	80 oct.Pole line N.
Smiths Ferry (Holyoke)(NC)	4.5 N	100	95	Obsts NE,SW.
Springfield	2.3 NE,RR S	205	26 S6	80,91 oct. Bldgs.W.
Stevens(N.Adams)	2.8 WSW,RR N	690	14 S4	80 oct.No sto.Poleline
Turners Falls (Montague)	4.2 N	350	33 S6	80 oct.Wooded E. ridge SE,SW.
(A)Westover (Chicopee Falls) (A)	3.8 NNE,riv W	244	70h R3 L6 S6	73,91,100 oct.No sto.
NEW HAMPSHIRE				
Claremont	1.3 W,riv NE	520	28h S2	80,91 oct.Wooded ridge
Dillant-Hopkins (Keene)	2 S,riv,RR W	481	40h S6	80 oct. NNE.
Hinsdale-Brattleboro (Hinsdale)	2.7 NW,RR W	360	18 S4	80 oct.Lndg flares prior req.
Keene Arpt.	3 NW,RR W	500	21 S6	No fuel or sto.100'h.ll
Lebanon	3.3 WSW,RR N	579	40h R1 L5 S1	80 oct.Rdo repair SE.
Newport	2 NNW,RR W	780	26 S4	80 oct.Pole line E.
NEW JERSEY				
Sussex	1.2 WSW,RR S	420	25 S1	80 oct.200'knoll NNE.
NEW YORK				
Accord (NC)	0.7 N,RR S	260	19	Trees S,NE,SW.
‡ Adirondack(Eagle Bay)	0.3 S	1707	70 S1	80 oct.Beach.
ALBANY	6.9 NNW,riv N	271	35h R2 L5 S6	80,91,100 oct.ARPT OF
(P)Ballston Spa	3 N,RR E	433	40h L5 S6	80,91 oct. ENTRY.
Briggs(Carlisle)	0.6 SE,RR W	1320	12	
Carpet City (Amsterdam)	6 N,rd NW	887	18 S6	80 oct.Use strips only
Catskill(Cairo)	2 E,hwy S	300	16	Trees sur fld.
Catskill Valley (Catskill)	1.5 SW	100	23 S3	80 oct.Data not verif.
Christie(New City)	1.5 N,RR E	150	16 S4	80 oct.Pole line SW
Cooperstown	1.4 NNW,RR SE	1660	16 S4	80 oct.Pole S.
Cozine(Rhinebeck)	0.5 SE,RR W	200	20 S1	87 oct.Poleline W.
‡ Dobbs Ferry(NC)	9.5 SW	5	100	Marine Ry.Ramp, winch, float.
East Greenbush	0.8 NW,RR W	260	38 S6	80 oct.Pole line N
(A)Elizabeth (Fisher's Island)(A)	W end Island	7	29h L4	No beacon.
Farly's (New Baltimore)	3 S,RR W	10	20 S1	80 oct.Trees N.
* Ft.Plain Int,40A,	3 NNW,RR NE	680	35 L3	(CV-AZ)
Freedom Plains (Billings)	2 W,rds N,E	340	10 S1	80 oct.Pwrline S.
Glens Falls,18,LG-UL	2.6 NW,rd S	474	36h R1 L3 S6	80 oct.
Glove City	1.5 NE,RR S	860	17 S1	80 oct.(Gloversville)
Halcott(Halcott Ctr)	1 N		10 S1	80 oct.Data unverif.
‡ Hall's(Lake George)	0.5 E	330	52 S1	73 oct,Ramps,all facs.
Hayduk(Herkimer)	0.6 SSW,RR N	400	12 S4	Ltd 80 oct.Poleline E.
Huguenot(Port Jervis)	3.3 NE,RR SE	480	21 S6	80 oct,Trees SW.
Intercity	3.6 SSE,RR NE	340	20 S4	80 oct.(Schenectady)
Kingston	1.5 NW,RR S	150	17 S4	80 oct.Pole line NW.
Kingston-Ulster (Kingston)	2.7 N,RR E	160	30 S4	80 oct.No sto.Pole line E.
‡ Knox Bay (Piseco) (NC)	1.5 S	1661	163	PRIV.Boat,beach,tractor.
Line Ridge (Beekman)	1.3 SE,RR S	420	16 L2 S6	80 oct.All lgts prior request.

(NC)-Not charted.

ARPT.— CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Long Meadow (Rexford)	1.5 NE,RR NW	380	17 S1	80 oct.Poles NNE.RR S
Miller (Nyack)	1.8 WNW,riv E	70	17 S6	80 oct.No sto.Poleline
‡ Montauk Yacht Club (NC)	2.5 NE	S.L.	Unl. S1	87 oct.avail. SW. Mar.-Oct.Buoys,floats
Montgomery	1 WSW,riv W	393	22 S6	80 oct.Trees N,brushE
(A)Montgomery U.S. Mil.Academy #1	2 SW	355	35h	CLOSED. (A)
Monticello-Sullivan Co.	1.4 N,RR E	1500	21 S1	80 oct.Windmill SSE.
Newburgh-Walden (Walden)	2.2 SSW,riv W	404	32 S6	73,80 oct.Obsts sur fld.
New Hackensack	0.5 W	156	35h	Obsts NE.
‡ Otsego(Coopers-town)	Adj NNE	1194	Unl. S1	80 oct.Float,ramp, winch, buoys.
Ⓟ Pickair(Ossining)	0.5 W	3	158 S4	80 oct.Boat,ramp.
Piseco	0.5 N,hwy SW	1710	19 S2	Ltd 80 oct.Trees, brush NNE.
Plateau(Northv'l)	2.5 E,riv ESE	1040	24 S1	Ltd 73,80 oct.Trees S
Randall's (Middletown)	1.8 ESE,RR NW	520	20 S1	80 oct.
Ravena	1.2 N,riv 2 E	180	14 S2	80 oct.Lgt acft only.
Rockland(New City)	1 SSE,RR E	240	12	Trees W,hwy E.
Ⓒ Round Lake (NC)	0.5 E,RR S,W	188	48 S6	80 oct.Beach,boat, tractor.
Sacandaga Park (Northville)	1 SW,RR W	770	13 S1	80 oct.Pole line WSW.
‡ Sag Harbor (NC)	0.5 N	5	103	PRIV.Ramp,tractor.
Schenectady Co.	3 N,RR SE	362	50h L5 S6	80, 91, 100 oct.
Schuylerville,Land & Seaplane Base	2.5 S,riv E	100	29	Trees N,S.
Selkirk (NC)	2.7 E,riv E	160	22	Trees N.
Sky Haven(Delanson)	0.9 NW,RR SE	1100	14 S2	80 oct.ESE,W blocked.
Somers	0.6 SE,RR E,S	563	17 S4	80 oct.No sto.
Starhaven(Middletown)	1.3 NW,RR SW	750	29	Trees SW,SE,NW.RR N
Steenburgh Avia. Svc.(Gloversv'l)	1.5 ENE,RR N	900	8 S1	80 oct.
(A)Stewart(Newburgh)	4 W,hwy N	463	61h R2 L5 S6	91,100 oct.Twr W.(A)
Stone Arabia (Fort Plains)	3.6 ENE,hwy E	880	18	Pole line NNW.
Stormville	1 ENE,RR S	350	23 S4	80 oct.No sto.Trees NE
* Ticonderoga Int, 22, LG-UL	2.7 NNE,rd E	210	32 L3	Obsts sur fld.
Troy	2 SSE,riv W	327	30 L4 S6	73,91 oct.Trees NW.
Valley Air Park (Middleburg)	1.5 NNW	635	16	Data not verified.
Vaughan(Johnstown)	1 E,hwy W	760	18 S1	Ltd 80 oct.Trees W.
(A)Wallkill, U.S.Mil. Acad. #2 (A)	3 NW,riv E	340	35h	CLOSED.
Wappingers Falls	0.9 SE,rd S	152	21 S4	80 oct.Pole line E,W,S
Warren Co.	2.4 NNE,rd N	325	40h	(Glens Falls)
Warwick-Wickham	4.5 NE,RR W	540	24 S4	80 oct.Ridge N
Westchester(Armonk)	0.5 SSE,riv E	380	18 S6	80,91 oct.Trees sur fld.
Westchester Co. (White Plains)	4 NE,lake W	435	50h L5 S6	80,91 oct.No sto.All lgts prior req.FEE
White (Bedford)	3.6 SE,hwy E	475	12	
Wingdale	1.5 NE,RR W	400	25 S4	80 oct.No sto.ROUGH
Wurtsboro	2 NE,RR E,SE	560	26 S6	80 oct.Obsts sur fld.
PENNSYLVANIA				
Matamoras	0.5 SSE,riv SE	450	18h L4 S6	80 oct.No ben.Lgts prior req.
VERMONT				
Bennington	2.5 WNW	830	13 S1	80 oct.470'hill WNW
Equinox(Manchester)	1 E,riv E,N	700	18 S6	80 oct.Poleline,mtn E
Fair Haven	1.5 N	370	20 S2	80 oct.Hills sur fld.
Hartness	3.8 NNW,riv E	570	20 S6	80 oct.(Springfield)
Rutland	5.8 SSE,hwy W	784	40h L3 S4	80 oct.No sto.All lgts prior req.
Twin State (White River Junction)	1 SW,riv,RR E	540	19h S6	80 oct.Hill NW.
Margaretville-Fleischmann	Adj.		21 S4	80,91 oct.No sto.Poleline NE(Margaretville)

LOCATION	FREQS. IDENT.	STA. CLASS, BEAR. & DIST.	FREQ, GUARD HRS. OF OPER, REMARKS
BRUNSWICK NAS	382 (NSM)	SRAZ; 84°,4	(3)
PORTLAND	206(PW)(116.1)	BMRLZ-VDT,149°, 2.2	(4), 116.1
YARMOUTH FM(Navy)	(- - -)	FM,264°,11.4	Brunswick NAS
MASSACHUSETTS			
BEDFORD (Navy)	522 (DBH)	MH	Oper cont.
Bedford AAF	212 (126.18)	CA	(3), 126.18
BOSTON (Logan)	263(BW)(116.1)	SBRAZ-VDT,238°, 2.2	(4), 116.1
BRANT ROCK FM(Navy)	(- -)	FM, 141°, 20.2	Squantum NAS
EASTON FM (Navy)	(- - -)	FM, 218°, 17.7	Squantum NAS
EVERETT LFM	(- - - -)	LFM, 298°, 4.2	Boston
FRANKLIN FM	(. - - - -)	FM, 238°, 28.7	Boston
LOGAN (Boston)	278 (118.7) (126.18)	AC	(4), 131.9,118.7, 126.18
PEABODY FM	(-)	FM, 310°, 9	Boston
SOUTH BOSTON LFM	(- - -)	LFM, 238°, 4.7	Boston
SOUTH WEYMOUTH (Navy)	420 (NFR)	BMRLZ	(3), 142.74 days on req.
South Weymouth NAF	3295 (142.74)	CN, 82°, 3.1	(3), 142.74, (8-1630,Mon.-Fri.)
SQUANTUM (Navy)	472 (NZW)	BMRLZ	(3);142.74 flt opers.
Squantum NAS	323 (142.74)	CN, 321°, 3.5	3105,4495;142.74 (7-sunset 1 hr.advance notice)
NEW HAMPSHIRE			
BOSCAWEN FM	(- - - -)	FM, 332°, 14.2	Concord
CONCORD	251 (CN)(116.1)	BMRLZ-VDT,327°, 2.1	(4), 116.1
GRENIER(Manchester) (Army)	338 (DUR)	SBRAZ	
Grenier Field	278 (126.18)	CA(ILS),352°,4	(3), 126.18
RHODE ISLAND			
CHARLESTOWN NAAS	3295 (142.74)	CN	3105;142.74 (GCA)
GREENE (Providence)	278 (126.18)	C	(4);116.1,131.9, 126.18
PROVIDENCE(Greene)	347 (PR)	BMRLZ-DT,480,3.5	(4)
QUONSET POINT(Navy)	356 (NCO)	BMRLZ	3105; 142.74
Quonset Point NAS	227(142.74) (126.18)	CN, 339°, 2.3	(3);142.74,140.58, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
GRENIER, N.H.	109.5	332.6	352°Mag	IM	(.02)	NW	(.71)	OM	(5.00)
						MM 201 ---	(.71)	OMM 219 ---	(5.00)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Fostoria (Stonington)	1 NE,RR S	5	18 S4	80 oct.Lgt acft only
Plainfield	1.5 SSW,RR E	160	21 S6	80 oct.
*Putnam Int,14,LG-BW	1.7 WSW,riv E	460	22 L3	Pole line N;poles NE
MAINE				
Biddeford	2 SSW,RR NW	110	22 S2	80 oct.Poleline SE.
(N)Brunswick NAS(N)	1.5 SE,RR N	77	60h R1	INACTIVE
Douglas (Brunswick)	3.5 W,RR SE	170	15	
‡Frank L.Sample,Jr. (Boothbay)(NC)	Adj.	S.L	Unl. S1	Fuel,ramp,float.
Hilltop (West Buxton)	0.8 WSW,RR S	300	22 S4	80 oct.Poleline ESE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted.

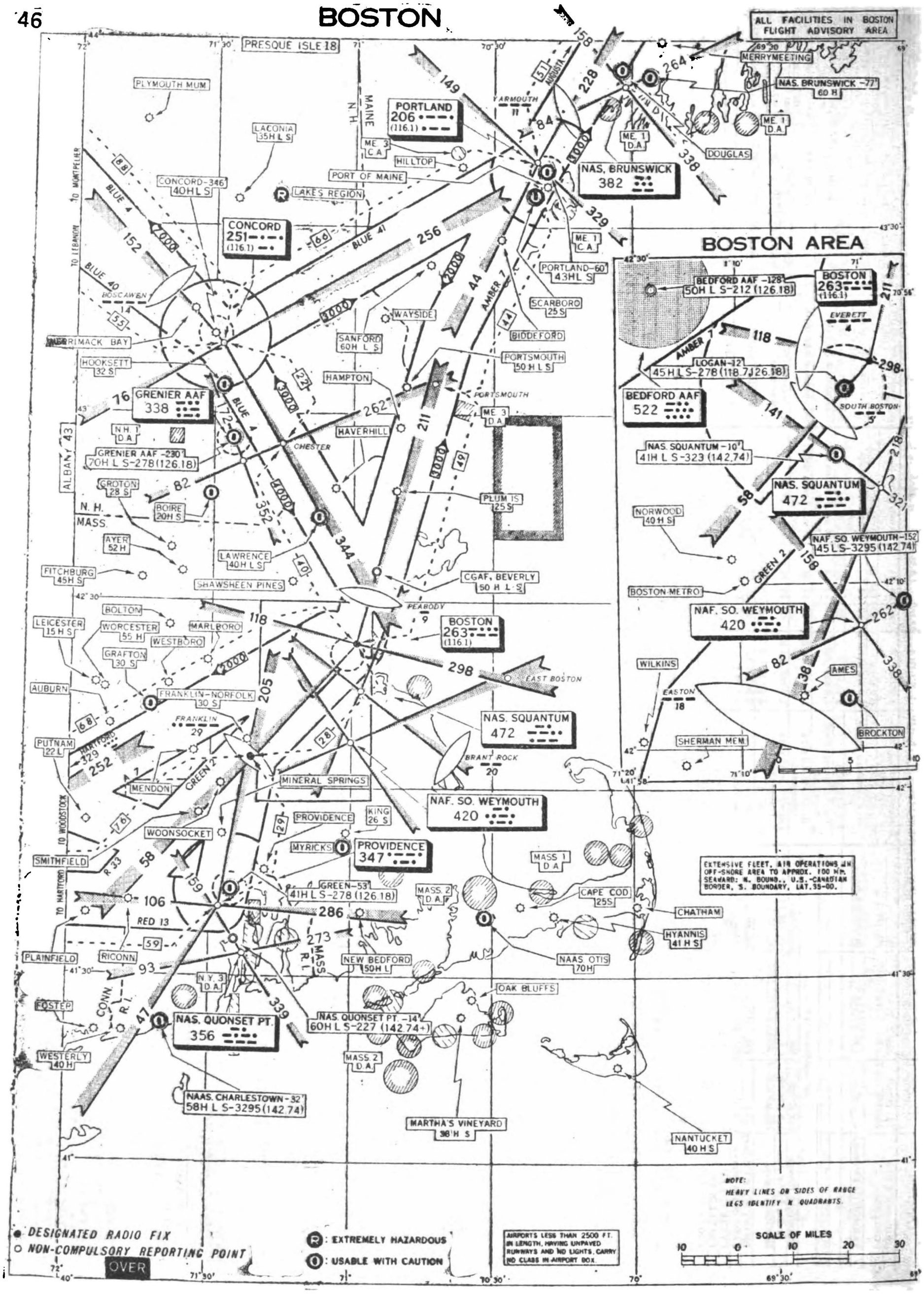
BOSTON — MAINE

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Merrymeeting (Bowdoinham)	1 SSE,riv E	60	18 S1	80 oct.Trees N, S.
‡Naples (NC)	0.5 NNW	267	160 S1	80 oct. Boat.
New Meadows (Bath)	2.3 WNW,RR S	12	60	Beach.N,S appchs blocked.
PORTLAND	2 W,riv E	60	43h R1 L5 S6	80, 91 oct.
Port of Maine (South Portland)	1.8 SSW,RR E	40	22 S3	80 oct.Poleline SSE, NE, SW.
Riverside Airpark (Brunswick)	1 WNW,RR S	60	23 S1	80 oct.Trees NNW. Hwy S.
‡Riverside Airpark (Brunswick)(NC)	1 WNW,RR S	60	23 S1	Hwy S. (NC)
(P)Sanford	4 SE,hwy N	243	60h L5 S6	80, 91 oct.
Scarboro	2 W,RR SSE	20	25 S2	80 oct.
Kennebunk	2 S,rd E	120	20 S2	80 oct.Trees S.Data not verified.
Riverside(Brunswick)	1 WNW,riv E	60	20 S2	80 oct.Data unverified
Stover (Freeport)	4 NNW	200	12 S2	80 oct.Data unverified
MASSACHUSETTS				
Ames (Brockton)	3 WSW,RR W	120	20 S6	73 oct. RR S.
Auburn	2 SW,RR W,E	700	15	Lgt acft only.
Ayer	1.5 NW,riv W	268	52h	
(A)Bedford AAF (A)	1 S	128	50h R2L5 S6	80, 100 oct.
Beverly CGAF	3 NW,lake E	108	50h L5 S1	80,91 oct.Svcg mil. acft on req.
Bolton (Clinton)	2.3 NE,RR W	400	17 S6	80 oct.Trees around fld. RR S.
Boston-Metropolitan (Canton)	1 W,riv W	50	21 S6	80, 91 oct.
Brockton	2 S,hwy E	128	15 S6	80 oct.Poles E,W.
Cape Cod (West Barnstable)	2.1 SW,lake SW	100	25 S2	80 oct.
Country Club(Wareham) (NC)	1.3 E,riv S	25	17	Pole line,trees N.
Chatham	1.7 WNW,hwy S	66	14 S4	80 oct.Pole line N.
‡Chatham (NC)	Adj W	S. L.	33 S2	Fuel.Ramp,dolly,buoy
Edgartown (NC)	2 S,rds E,NW	20	30 S4	80 oct. No sto.Pole
Falmouth (NC)	2.5 NE	40	18 S4	80 oct.Data not verified. Pole line NE
Fitchburg	2.5 SE,bet RRs	334	45h S6	80 oct.Knolls,dike S.
Franklin-Norfolk (Norfolk)	2.5 WNW RR SSE,NW	140	30 S4	80 oct.No sto.Pole line S.
Grafton (No.Grafton)	0.7 SSW,riv N	450	30 S6	80 oct.Wooded hill S
Groton	4.6 WNW,RR W	280	28 S6	80 oct.
Haverhill	2 NNE,lake S	125	17 S6	80 oct.Stack S;pole line NW.
HYANNIS	1.2 N,RR E	56	41h S4	80, 91 oct.
‡Jubilee Yacht Club (Beverly) (NC)	Adj S	S. L	105 S1	Fuel.Beach,dock. Avail. May-Oct.
King (Taunton)	4.5 ESE,RR N	45	26 S6	73 oct.Poleline NNE.
(P)LAWRENCE	2.5 ENE,lake E	155	40h L5 S6	91 oct. Pole line SSE.
Leicester	2 N	1140	15h S4	80 oct.Reservoir SE.
(A,N) LOGAN (Boston)	1.5 E in harb.	12	40hR2 L4 S6	80,91,100 oct.INACTIVE. Rdo req.
Mansfield (NC)	2 SSE,RR NE	124	25 S2	80 oct. Poleline NW, NE.
Merrimack Valley (Lawrence) (NC)	2 E	7	83 S4	Fuel.No sto.Ramp, float.Data unverified.
Marlboro	2.4 E,RR WSW	265	15 S2	80 oct.Ridge SSE,NNW
MARTHA'S VINEYARD (Vineyard Haven)	4.3 S,rd S	68	38h L5 S2	80,91 oct.Lgts prior req.Obsts SE side.
Mendon	0.3 S,lake W	450	18 S4	80 oct.No sto.Pole line N,NW.
Myricks	0.8 N,RR SW	65	20 S4	80 oct.Pole line S.
NANTUCKET	2.6 SE,rd N	47	40h L S6	80 oct.Port.rnwy lgts.
(P)New Bedford	2.5 NNW,RR W	78	50h	RR S.
Norwood	1.8 E,riv E	55	40h S1	80, 91 oct.
Oak Bluffs	0.8 SW,rd W	20	20 S4	80 oct.Trees E,SE.
(N)Otis NAAS(Falmouth)	9 NNE	126	70h	INACTIVE. (N)
Plum Island (Newburyport)	2.3 SE,riv N	15	25 L1 S6	80 oct.Pole line E.
Providence (Seekonk)	2.1 ESE,rd NE	25	17 S4	80 oct.Pole line NNE

MASSACHUSETTS

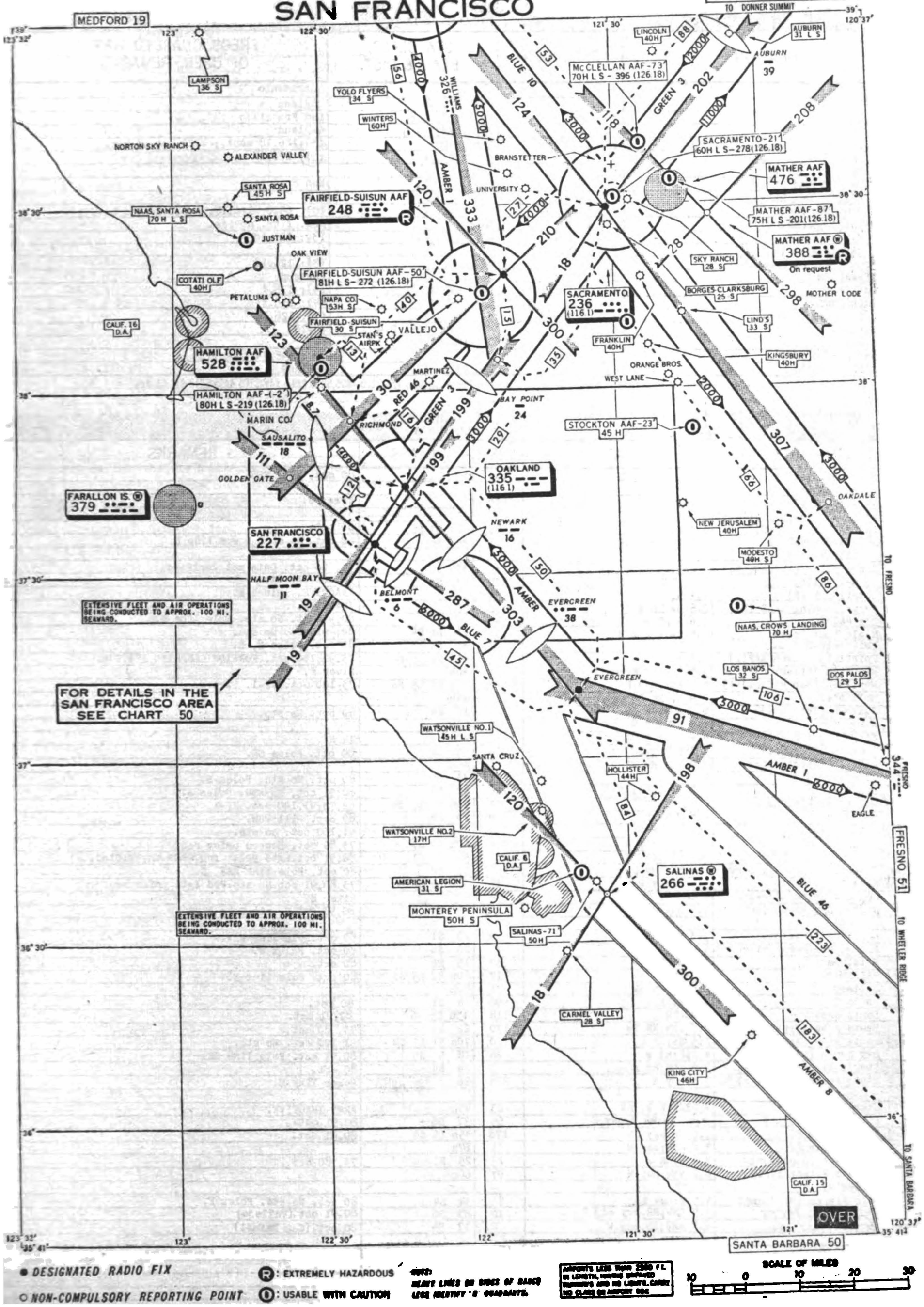
AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N)Salem CGAS (N) (NC)	2.5 E	S.L.	150 S4	91,100 oct. Ramps.
Shawsheen Pines (Billerica)	2.7 E,RR NE	110	17 S4	80 oct.No sto.Trees NE,E,SE.
Sherman Memorial (Mansfield)	3 SSW,RR W	130	17 S1	73 oct.Trees sur fld
(N)South Weymouth NAF	1.5 SSE,RR W	152	45 R2 L5 S4	100 oct.B-2 lgts.(N)
(N)Squantum NAS (N)	0.8 W,bay N	10	41h R2 L5 S4	91,100 oct.No sto.No ngt flying.
(N)Squantum NAS (N)(NC)	0.8 W	10	Unl S4	73-100 oct.Ramps, buoys.
‡Swansea (NC)	2.5 SSW	0	211	Float,buoys,beaching
Westboro	1.9 WNW,hwy N	310	15 S6	80 oct.Rnwy data unverified.
Wilkins (No.Attleboro)	2 NE,lake NW	200	18 S6	80 oct.Poleline ESE
WORCESTER	3.5 W,RR SE	1009	55h	
NEW HAMPSHIRE				
Boire (Nashua)	2.8 WNW,RR N	185	20h L3 S6	80 oct.Lgts prior req
CONCORD	1.5 E,riv W	346	40h R1 L5 S6	80,91 oct. Pole S.
Daniel Webster (Nashua)	3.5 NW,riv E	192	24 S6	80,91 oct.Data not verified.
(A)Grenier (Manchester)	4 S,RR E	230	70h R3 L5S6	73,91,100 oct. (A)
Hampton	1.6 N,RR W	80	22 S5	80 oct.No sto.Trees N, S.
Hooksett Land & Seaplane	2 S,RR E	187	32 S6	80 oct. No sto.
Hooksett (NC)	2 S	2	80 S6	80 oct.Beach,ramp, tractor
‡Interstate Airways (Alton Bay)(NC)	Adj N	504	Unl S1	80 oct.Ramp,buoys, wharf.
Lakes Region (Wolfeboro)	2.6 W,RR E	580	14 S1	80 oct.No sto.
Lakes Region (Wolfeboro) (NC)	2.7 W	504	60 S6	80 oct.Ramp,all facs
‡Lake Winnepesaukee (Wolfeboro) (NC)	3 WSW		60 S1	80 oct.Data not verified.
Merrimack Bay (Concord)	5 NNW,RR W	260	15 S2	80 oct.Poleline S.
Paugus Bay (Lakeport) (NC)	1 NE	504	100 S4	73 oct.Beach,boat, ramp.
Plymouth Mun.Arpk.	3.5 WNW,RR N	506	18 S2	Ltd 80 oct.Ppleline N
(P)Portsmouth	3 W,bay W	94	50h L5 S6	80,91 oct.
Wayside(Sommersworth)	2.4 W,RR N	200	12 S2	80 oct.Trees SSE,
Weirs (The Weirs)	0.3 SE	504	210 S4	80 oct.Ramps. (NC)
‡Wolfeboro (NC)	0.5 SE	504	180 S1	80 oct.Boat,wharf.
Gate City (Nashua)	4 S		23 S4	80 oct. Data unver
RHODE ISLAND				
(N)Charlestown NAAS (N)	1.9 SW,hwy N	32	58h R1 L5 S1	91, 100 oct. No bcn.
Greene (Providence)	7 S,RR W	53	41h R2 L5 S6	80, 91 oct.
Mineral Springs (Providence)	4.6 NW,hwy E	240	11 S4	73 oct.No sto. Trees surround field.
‡Newport (NC)	3 NW	S. L.	Unl	Ramps,buoys,boat.
(N)Quonset Point NAS(N)	16.5 S Prov'd.	14	60hR2L5 S6	91, 100 oct.
(N)Quonset Point NAS(N) (NC)	16.5 S Prov'd.	S.L.	Unl L5 S6	91,100 oct.Ramp,all facs.
Riconn (Greene)	1.8 WNW,RR S	390	15 S4	80 oct.
Smithfield	1 NE,RR W	400	17 S6	73 oct.
Westerly	2.4 SSE	81	40h	Riv. E.
Woonsocket	2.5 E.	400	20 S2	80 oct.Riv WSW.

BOSTON


ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
PRESQUE ISLE 18
PLYMOUTH MUM
LACONIA 35H L S
CONCORD-346 40H L S
CONCORD 251 (116.1)
PORTLAND 206 (116.1)
ME. 3 C.A.
HILLTOP
PORT OF MAINE
LAKES REGION
YARMOUTH
AUGUSTA
MERRYMEETING
NAS. BRUNSWICK -77' 60 H
ME. 1 D.A.
NAS. BRUNSWICK 382
DOUGLAS
ME. 1 C.A.
PORTLAND-60 43H L S
SCARBORO 25 S
BIDDEFORD
PORTSMOUTH 50 H L S
WAYSIDE
SANFORD 60H L S
HAMPTON
PORTSMOUTH
ME. 3 D.A.
PLUM IS 25 S
HAVERHILL
CHESTER
HOOKSETT 32 S
MERRIMACK BAY
GRENIER AAF 338
N.H. 1 D.A.
GRENIER AAF -230 70H L S-278 (126.18)
GROTON 28 S
BOIRE 20H S
AYER 52 H
LAWRENCE 40H L S
FITCHBURG 45H S
SHAWSHEEN PINES
CGAF, BEVERLY 50 H L S
PEABODY 9
BOSTON 263 (116.1)
BOLTON
LEICESTER 15 H S
WORCESTER 55 H
MARLBORO
WESTBORO
GRAFTON 30 S
AUBURN
FRANKLIN-NORFOLK 30 S
FRANKLIN 29
PUTNAM 22 L
HARTFORD 329
MENDON
MINERAL SPRINGS
NAS. SQUANTUM 472
BRANT ROCK 20
NAF. SO. WEYMOUTH 420
PROVIDENCE
KING 26 S
WOONSOCKET
MYRICKS
PROVIDENCE 347
SMITHFIELD
GREEN-53 41H L S-278 (126.18)
MASS. 2 D.A.
CAPE COD 25S
CHATHAM
HYANNIS 41 H S
NAAS OTIS 70H
NEW BEDFORD 50H L
PLAINFIELD
RICONN
N.Y. 3 D.A.
NAS. QUONSET PT. 356
NAS. QUONSET PT. -14' 60H L S-227 (142.74+)
OAK BLUFFS
MASS. 2 D.A.
FOSTER
WESTERLY 40 H
NAAS. CHARLESTOWN-32' 58H L S-3295 (142.74)
MARTHA'S VINEYARD 38 H S
NANTUCKET 40 H S
BOSTON AREA
BEDFORD AAF -128' 50H L S-212 (126.18)
BOSTON 263 (116.1)
EVERETT
LOGAN-12 45 H L S-278 (118.7) 126.18)
BEDFORD AAF 522
SOUTH BOSTON
NAS. SQUANTUM -10' 41H L S-323 (142.74)
NAS. SQUANTUM 472
NORWOOD 40 H S
NAF. SO. WEYMOUTH-152 45 L S-3295 (142.74)
BOSTON-METRO
NAF. SO. WEYMOUTH 420
WILKINS
EASTON 18
AMES
SHERMAN MEM.
BROCKTON
EAST BOSTON
EXTENSIVE FLEET AIR OPERATIONS IN OFF-SHORE AREA TO APPROX. 100 NM. SEAWARD: N. BOUND., U.S.-CANADIAN BORDER, S. BOUNDARY, LAT. 35-00.
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
OVER
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.
SCALE OF MILES
10 0 10 20 30

SAN FRANCISCO

ALL FACILITIES IN OAKLAND FLIGHT ADVISORY AREA



RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUBURN FM	(-)	FM, 22°, 39	Sacramento
BAY POINT FM	(-)	FM, 19°, 24	Oakland
BELMONT FM	(. - -)	FM, 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM, 123°, 37.5	Oakland
FAIRFIELD-SUISUN,(Fairfield)(Army)	248 (DFA)	SBMRAZ-DT	(3);126.18 cont.; 4220 kcs on req.
Fairfield-Suisun AAF	272 (126.18)	CA; 210°, 4.7	(3); 126.18
FARRALLON ISLAND	379 (FQ)	HW	
HALF MOON BAY FM	(- - -)	FM, 199°, 11	San Francisco
HAMILTON,(San Rafael)(Army)	528 (DHF)	HZ	
Hamilton Field	219 (126.18)	CA; 160°, 2.1	(3), 6500; 126.18. 4220 kcs on req.
MATHER,(Sacramento)(Army)	388 (DIM)	MRLWZ	Req. 1 hr. notice.
Mather Field	201 (126.18)	CA; 298°, 8.9	(3); 126.18
Mather Army (H fac.)	476 (DIM)	H	
McCLELLAN, (Sacramento)	396 (126.18)	CA	(3); 126.18
NEWARK FM	(- -)	FM, 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	SBRAZ-VDTX, 199°, 0	(4); 116.1
SACRAMENTO	236 (SZ)(116.1)	SBMRAZ-VDT	(4); 116.1
Sacramento Airport	278 (126.18)	C; 22°, 1.7	(3); 126.18
SALINAS	266 (DZS)	MRLW-DT, 310°, 2.4	(8-18)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT, 291°, 3.6	(4)
SANTA ROSA NAAS	3295 (142.74)	CN	(3); 142.74 (rec only)
SAUSALITO FM	(- - - -)	FM, 278°, 17.5	Oakland

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alexander Valley (Healdsburg)	3.7 ENE;riv NE	180	19 S2	80 oct. Hill SSW.
Amador Co. (Jackson)(NC)	2 NW;hwy S	1450	15	Trees S.
American Legion (Salinas)	1.8 NNW	72	31	
★ Auburn Int.10,SP-SL	3.3 N;RR SE	1510	31 L3 S6	80 oct.
Borges-Clarksburg (Clarksburg)	2.4 NNE;riv SE	15	25 S6	80 oct. No sto. Power line E.
Branstetter (Sacramento)	3 NNW;RR E	30	30 S6	73, 80 oct. Data not verified.
Carmel Valley	12.5 ESE;riv S	450	28 S4	80 oct. No sto.
(N) Cotati OLF (N)	1.5 N; RR E	94	40h	INACTIVE. Wires E.
(N) Crows Landing NAAS (N)	2.5 NW;RR E	166	70h	INACTIVE.
Dos Palos	1.6 S;RR W	146	29 S6	80,91 oct. No sto. Pole line S.
Eagle (Dos Palos)	6.5 SW;creek N	167	23 L1 S4	80, 91 oct. No sto.
Fairfield-Suisun	1 E;RR N	7	30 S5	80 oct. Poles N, S.
(A) Fairfield-Suisun AAF(A)	5.5 NE	50	81h R2 L5 S4	73,91,100 oct. FOREIGN CLEARING STATION.
Franklin (Stockton)	5.5 SSE of Franklin	21	40h	River E.
(A) Hamilton (San Rafael)(A)	6.5 NNE;bay E	-2	80h R2 L5 S6	73-100 oct. JP-1. Twrs W.
Hollister	2.9 N; RR SW	234	44h	
Justman (Petaluma)	1.5 ENE;RR SW	25	16 S4	80 oct. No sto.
King City	1.5 NNE;RR W	360	46h	
Kingsbury (Stockton)	6 WSW of Lodi	15	40h	RR NE.
Lampson (Lakeport)	4 SSE;hwy S	1300	36 S2	80 oct. Poles SE.
Lincoln (Sacramento)	3.2 WNW;RR NE	120	40h	
Lind's (Lodi)	4.8 N;hwy E	54	33 S6	80 oct. No sto. Poles E.
Los Banos	1.2 W; canal S	126	32 S6	80,91 oct. No sto. Poles S.
(A) McClellan (Sacramento)(A)	9 NE;RR SE	73	70h R1 L5 S4	62,73,91,100 oct. JP-1.
Martinez	0.8 N;RR S	6	20 S6	80 oct. Hill WSW.
(A) Mather (Sacramento)(A)	10.5 E;RR NW	87	75h R2 L5 S6	91,100 oct. No sto.
Modesto	2.2 ESE;riv S	100	40h L1 S6	73,80 oct. Beacon prior req.
(P) MONTEREY PENINSULA	3.4 ESE;bay N	220	50h L2 S1	80,91 oct.Lgts prior req.Data unverified.
Mother Lode (Val'y Sprgs)	6.6 NE;hwy S	1600	17 S2	80 oct. Pole line ESE, S.
(P) Napa Co. (Napa)	5.5 S;riv W	37	53h L5 S4	73,80,91 oct.No sto.Fld lgts prior req.
New Jerusalem(Stockton)	8 ESE of Tracy	56	40h	River E.
Norton Sky Ranch (Healdsburg)	5.2 NNW;RR E	225	23 S4	80,91 oct.No sto.Pole line NW.
Oak View (Petaluma)	3.3 ENE;RR SW	50	20 S1	80 oct.Pole line WNW.
Orange Brothers (Stockton)	5 N	23	20 S6	80 oct. Poles W.
Petaluma	1.7 N;RR E,W	30	15 S4	80 oct.
(P) SACRAMENTO	4 S;RR W	17	60h R2 L5 S1	80 oct. Pole line E.
Salinas	2.5 SE;RR SW	71	50h	
Santa Cruz	4.8 E;RR W	96	24 S1	80 oct.
Santa Rosa	7 NW;RR E	118	45h L5 S6	80,91 oct.
Santa Rosa Airpark	2.8 NNW;RR SW	170	22 S1	73, 80 oct.
(N) Santa Rosa NAAS (N)	2.5 SW;RR E	110	70h R1 L5 S4	91,100 oct. No sto.
Sky Ranch (Sacramento)	4 SSE;RR W	26	28 L S5	80,91 oct. Pole line SE.
Stan's Airpark (Vallejo)	2.5 NNW;RR E	5	24 S4	80 oct.
State Forestry (Davis)(NC)	3 E;hwy N	228	26	Power line W.
(A) Stockton	4 SSE;RR W, SW	23	45h	ARMY INACTIVE.
University (Davis)	2.4 WSW;RR E,hwy S	65	37 S6	80,91 oct.
(P) Watsonville #1	2.6 NW;bay SW	178	45h L5 S6	80,91 oct.
Watsonville #2	3.8 SSW;bay W	125	17h	
West Lane (Stockton)	4.1 N;RR W	25	25 S1	73, 80 oct.
Winters Flight Strip (Davis)	6.2 WNW;hwy W	97	60h	
Yolo Flyers (Woodland)	5.5 W;hwy E	75	34 S4	80 oct. No sto. Poles E.
→ Vallejo Sky Harbor	3.5 NNW;RR,hwy adj E.	10	25 S6	80,91 oct.(Vallejo)
→ Marin County Inc.	2.9 NNE;RR,hwy W	2	17 S4	80 oct.(San Rafael)

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMEDA NAS	257(126.18,142.74)	CN	(3): 126.18,142.74
NAS (Seaplane)	2870	CN	2870
BAKERSFIELD (Kern Co.)	239(BD)(116.1)	SBMRAZ-VDT;141°,1.5	(4);,116.1
BELMONT FM	(. - -)	FM; 107°, 5.8	San Francisco
BELMONT	356 (P)	FMK; 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM; 123°, 37.5	Oakland
HALF MOON BAY FM	(- - - -)	FM; 199°, 11	San Francisco
KERN COUNTY, BAKERSFIELD	278 (118.5)	C (ILS)	(4);126.18,131.9,118.7
LEREC FM	(- -)	FM, 141°, 42	Bakersfield
LIVERMORE NAS	350 (142.74)	CN	(3);142.74 (8-17 Wed - Fri, 8-1815 Sat - Sun)
MOFFETT NAS (Mountain View)	3295	CN	(3);126.18,142.74
MOUNTAIN VIEW (Navy)(Moffett NAS)	323 (NUQ)	BMRLZ;320°, 1.9	(3);126.18,142.74
NEWARK FM	(- -)	FM; 123°, 16	Oakland
NEWARK	371 (O)	FMK; 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	SBRAZ-VDTX	(4); 116.1
Oakland Airport	278 (126.18)	C (ILS) 199°, 0	(4);126.18,118.7,131.9(GCA)
POINT MUGU NAP	338 (142.74)	CN	3105, 6210;142.74 (8-20)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT	(4)
San Francisco Airport	269 (126.18) (118.9)	C;291°, 3.6	(4); 126.18, 118.9,131.9
SANTA BARBARA	230(OY)(116.1)	BMRLZ-VDT	(4); 126.18,142.74, 116.1
Santa Barbara Airport	278 (118.7)	C; 74°, 2.2	(4);118.7,126.18,142,74 (7-23)
SANTA ROSA NAAS	3295(142.74)	CN	(3); 142.74 (req only)
SAUSALITO FM	(- - - -)	FM; 278°, 17.5	Oakland

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO, CALIF.	109.9		300° Mag.	IM, ·(.07)	MM ····· (.80)	OM ·· (4.71)
					MMK	OMK
OAKLAND, CALIF.	109.9		273° Mag.	IM ·····(.12)	MM	OM ·· (2.60)
					MMK	OMK

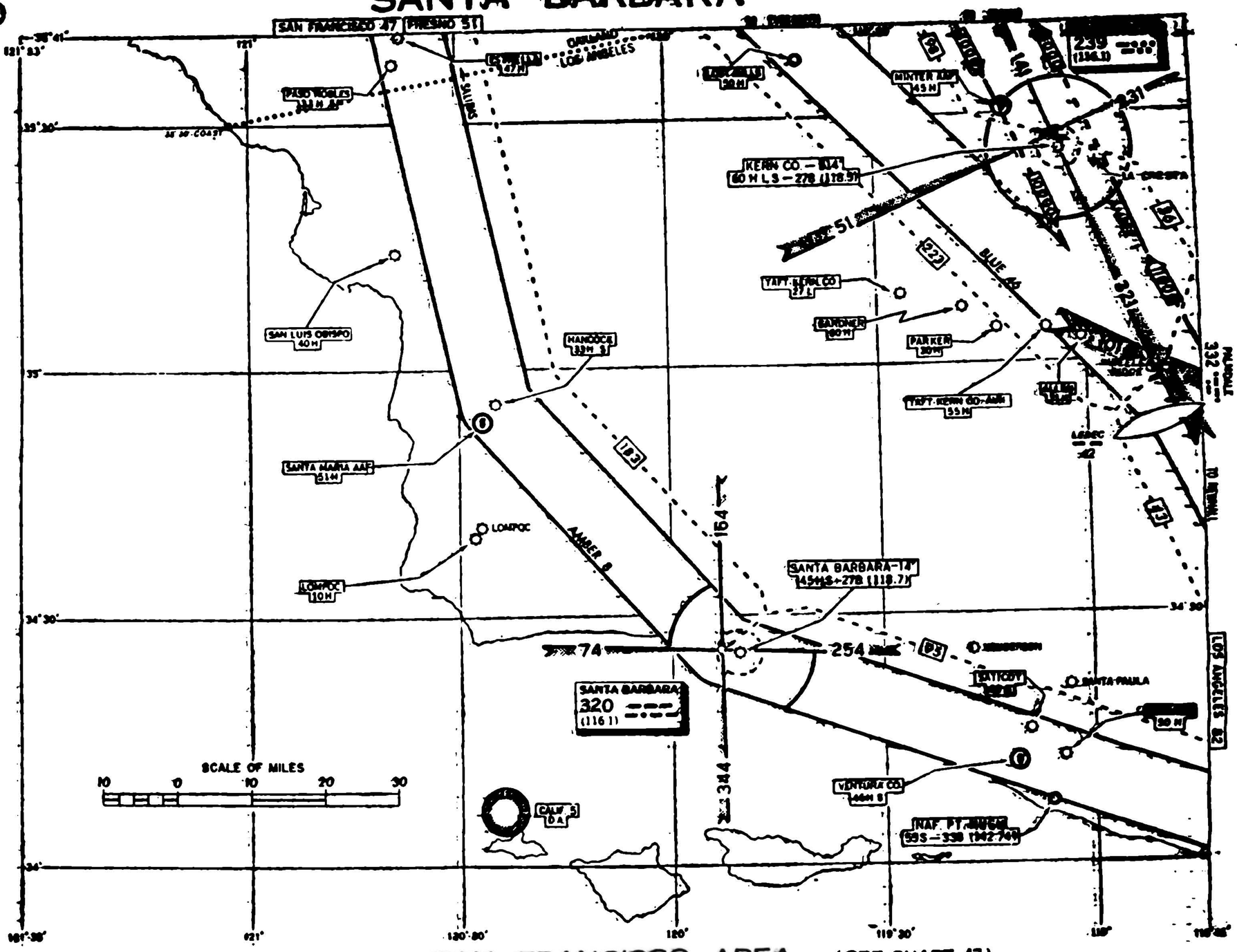
$-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.-Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

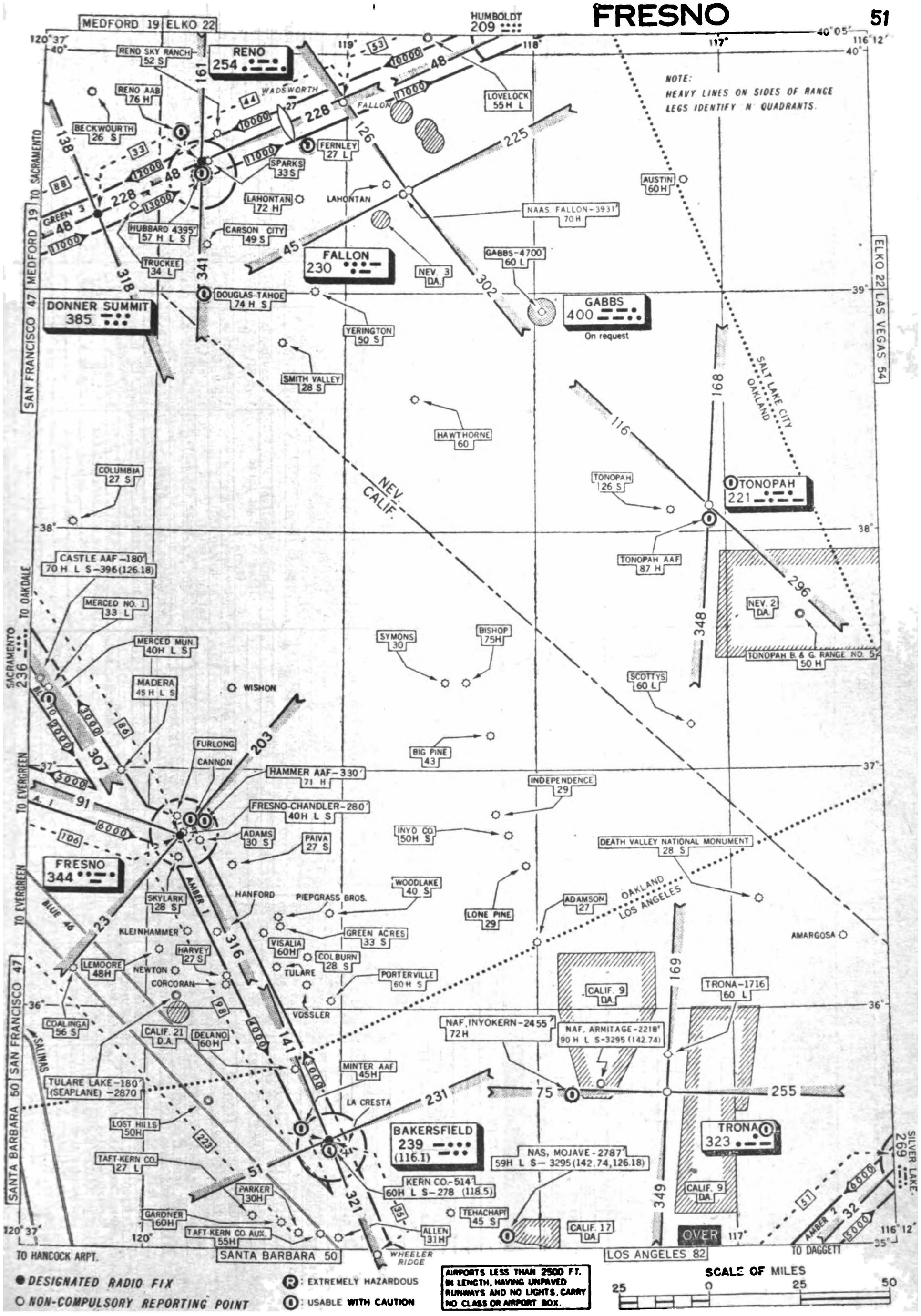
AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Alameda NAS (N)	4.5WNW;bayS,W	15	52h R1 L5 S6	91,100 oct. No sto.
Allen (Taft)	26 ESE	500	31h	
Bakersfield-Kern Co.#2(Bakersfield)(NC)	6 E;RR,hwy S	660	21	
Bay Meadows (San Mateo)	1.7 SE;RR W	6	26 S6	73,80 oct. Bldg SSE
Belmont	0.5 N;RR W	5	30 S4	73,80 oct. No sto. Bay E.
Concord	1.9NE;hwyE,S,W	104	40h	
Contra Costa County (Concord)	1.5 NW;hwy S	23	50h	
Crawford USPS (Santa Ynez)(NC)	4.2 ESE;hwy S	525	13	
Cuyama USPS (Maricopa)(NC)	16 SSW	2749	26	
Estrella	3.5 SW	806	47h	
Gardner (Taft)	9 ESE;RR SE	444	60h	
Half Moon Bay	5.5 NW;hwy NE	36	50h	
Hancock (Santa Maria)	1.2 SE;RR N	236	33h S4	80,91 oct. Pwr line, twr W.
Hayward	2 WSW;RR W	25	55h	
Henderson (Ojai)	3.5 WSW;RR E	600	20 S1	91 oct.
(P) Kern County (Bakersfield)	4.4 NNW;RR W	514	60h R3 L5 S1	80,91 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct. Data unverified.
(N) Livermore NAS (N)	3.7 E;RR N	626	42h R1 L S6	91,100 oct. B-2. obst lgts.
(N) " OLF (N)	2 WNW;hwy E	448	40 L2	Poles E, N. Twr NE.
Lompoc	0.6 N;riv N	90	10h	
com.	2.5 N;riv S	200	18 S1	73 oct.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	Inactive.
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	Inactive.
(N) Moffett NAS (LTA)(Mountain View)	2 NE;hwy S	20	70h R2 L4 S4	91,100 oct. No storage.(N)
Mountain View	2.2 NW;RR W	57	31 S6	73 oct.
(A,N)Oakland	5 S;RR SE	2	62h R3 L6 S6	73,80,91,100 oct. ARMY INACTIVE.
Oxnard Landing Strip	5 E;hwy N	84	50h	
Pacific Airmotive (San Jose)	2.6 E;road SW	125	27 L S4	73,80 oct. No storage.
Palo Alto	2 ENE;bay E	5	23 S6	73,80 oct. Poles S, unlgtd.
Parker (Taft)	15 SE	550	30h	
Paso Robles	2.7 ESE;hwy W	810	33h S4	80,91,100 oct.
(N) Point Mugu NAP (N)	3.6 NW		55 R1 S4	73,91,100 oct. Twr, hi-line E.
Reid-Hillview (San Jose)	3.7 E;road N,S	200	27 L3 S6	73,80 oct. No ben. Poles E, S.
San Carlos	1 SE;RR SW	2	23 S6	80,91 oct. Pole line NW, SE.
(P) SAN FRANCISCO	9 SSE;bay E	4	80h R2 L5 S1	80,100 oct. No storage. Rdo req.
San Jose City (San Jose)	2 NW;RR SW	70	15 S2	80 oct. Pwr line S.
(P) San Luis Obispo	2 SSE;hwy E,S	200	40h	
San Mateo	2.2 ESE;RR E,hwy W	6	15 S6	80,91 oct. No sto.
(P) SANTA BARBARA	8.1 W;ocean S	14	45h R2 L5 S6	91,100 oct. Lgts till 2300.
(A) Santa Maria AAP (A)	3.5 S;hwy E	258	51h	Inactive.
Santa Paula	0.8 S;riv S	240	23 S6	80 oct.
Saticoy	1.5 S;RR N	80	30 S2	73,80 oct. Trees NE.
Shafter-Kern Co.(Shafter)(NC)	3.3 SSE	500	20	
Sherman (Walnut Creek)	3 N;RR E	100	28 S4	80 oct. Poles NW, SE.
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2(Taft)(NC)	7 ESE	444	26	
Taft-Kern County Aux. (Taft)	21 SE	444	55h	
Tracy #5 (Stockton)	3.6 S Tracy	190	40h	
Ventura County (Oxnard)	1 W;hwy E	44	46h L S6	80, 91 oct. Flares prior req.
Vernalis	2.3 S	212	70h	
Warm Springs	2.3 SSE;RR W	100	23	
Cooley Fld (San Carlos)	2.9 NNW;RR S,hwySW	6	21 S6	80,91 oct.
(H)Alameda NAS (H)(NC)	4.5 WNW	S.L.	211 R1 L5 S6	73,91,100 oct.Ramp;tractor.
⊕Oakland (NC)	6 S	S.L.	S4	Fuel.Ramp;beach;haul-out.
(H)San Francisco CGAS (H)(NC)	9 SSE	S.L.	132 L5 S6	91,100 oct.Ramps;all facs.
San Ramon	2.5 SE;RR adj E	440	25 S2	80,91 oct.

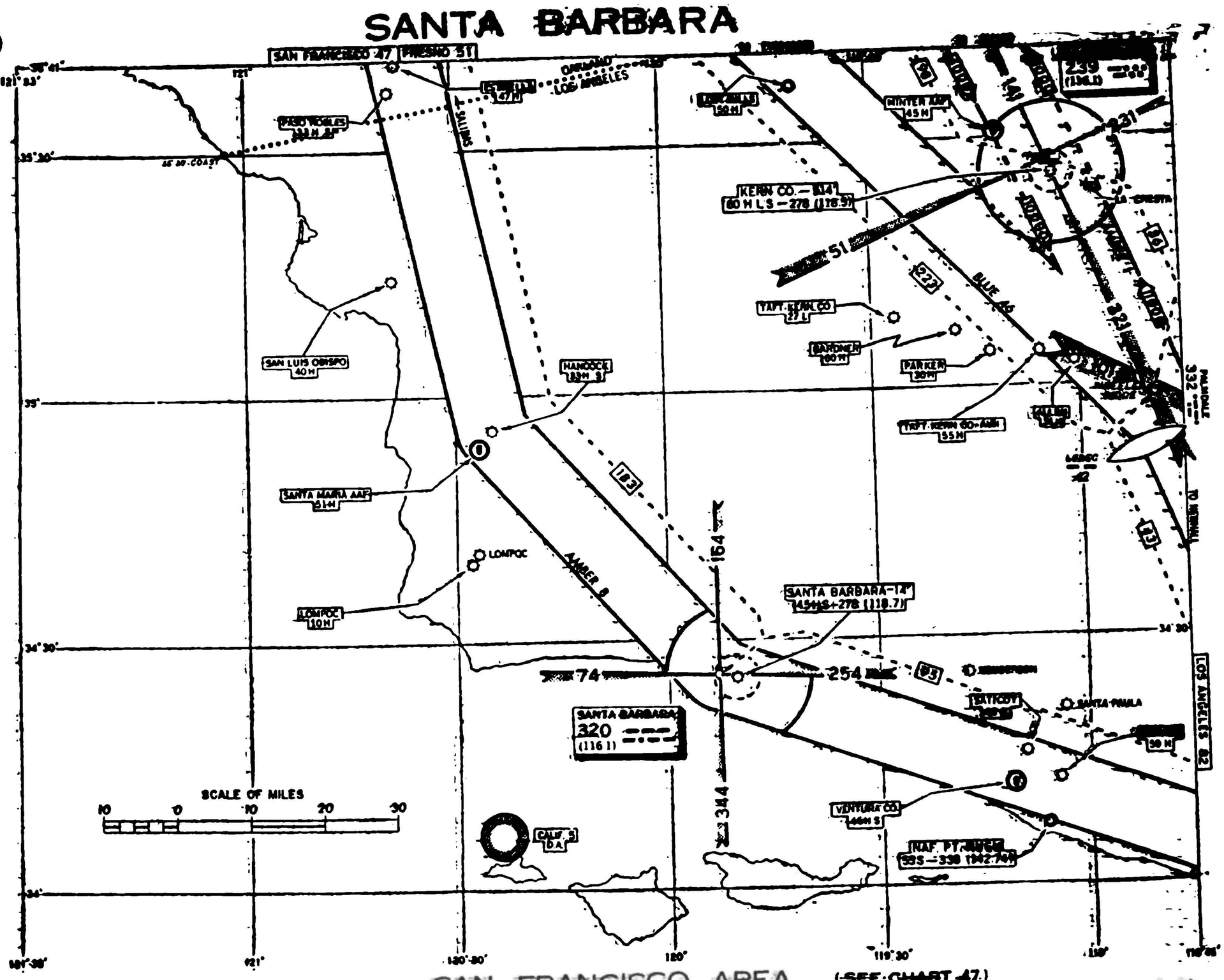
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

SANTA BARBARA

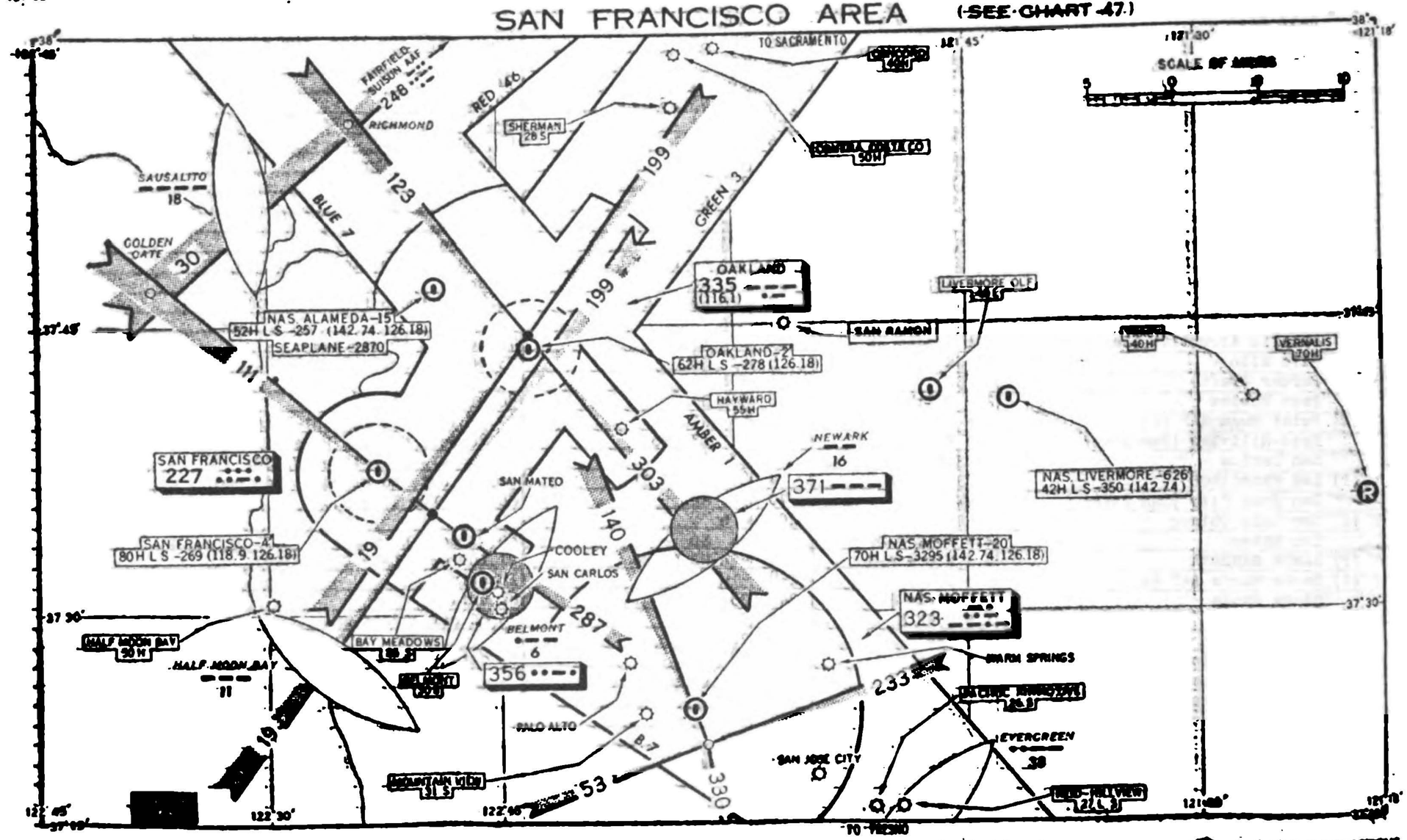



MEDFORD 19 ELKO 22
HUMBOLDT 209
120°37'
40°
119°
118°
117°
40°05'
116°12'
RENO SKY RANCH 52 S
RENO 254
RENO AAB 76 H
WADSWORTH
FALLON
LOVELOCK 55 H L
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'N' QUADRANTS.
BECKWOURTH 26 S
FERNLEY 27 L
SPARKS 33 S
AUSTIN 60 H
LAHONTAN 72 H
LAHONTAN
NAAS FALLON-3931' 70 H
HUBBARD 4395' 57 H L S
CARSON CITY 49 S
GABBS-4700 60 L
FALLON 230
NEV. 3 DA.
TRUCKEE 34 L
DOUGLAS-TAHOE 74 H S
DONNER SUMMIT 385
GABBS 400
On request
YERINGTON 50 S
SMITH VALLEY 28 S
HAWTHORNE 60
SALT LAKE CITY OAKLAND
COLUMBIA 27 S
NEV. CALIF.
TONOPAH 126 S
TONOPAH 221
TONOPAH AAF 87 H
CASTLE AAF-180' 70 H L S-396(126.18)
MERCED NO. 1 33 L
NEV. 2 DA.
SYMONS 30
BISHOP 75H
MERCED MUN. 40H L S
SACRAMENTO 236
TO OAKDALE
MADERA 45 H L S
WISHON
SCOTTYS 60 L
TONOPAH B. & G. RANGE NO. 5 50 H
FURLONG
CANNON
BIG PINE 43
HAMMER AAF-330' 71 H
INDEPENDENCE 29
FRESNO-CHANDLER-280' 40H L S
ADAMS 30 S
PAIVA 27 S
INYO CO. 50H S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
KLEINHAMMER
GREEN ACRES 33 S
AMARGOSA
VISALIA 60H
COLBURN 28 S
HARVEY 27 S
LEMOORE 48H
NEWTON
TULARE
PORTERVILLE 60 H S
CORCORAN
CALIF. 9 DA.
TRONA-1716 60 L
VOSSLER
COALINGA 56 S
CALIF. 21 D.A.
DELANO 60H
NAF, INYOKERN-2455 72H
NAF. ARMITAGE-2218' 90 H L S-3295 (142.74)
MINTER AAF 45H
TULARE LAKE-180' (SEAPLANE) -2870
LA CRESTA
LOST HILLS 50H
BAKERSFIELD 239 (116.1)
TRONA 323
NAS, MOJAVE-2787' 59H L S-3295(142.74,126.18)
TAFT-KERN CO. 27 L
KERN CO.-514' 60H L S-278 (118.5)
PARKER 30H
TEHACHAPI 45 S
CALIF. 9 DA.
GARDNER 60H
TAFT-KERN CO. AUX. 55H
ALLEN 31H
CALIF. 17 DA
OVER
SILVER LAKE 269
TO HANCOCK ARPT.
SANTA BARBARA 50
WHEELER RIDGE
LOS ANGELES 82
TO DAGGETT
TO SACRAMENTO
TO EVERGREEN
SAN FRANCISCO 47
SAN FRANCISCO 47 MEDFORD 19
ELKO 22 LAS VEGAS 54
SANTA BARBARA 50 SAN FRANCISCO 47
SALINAS
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
25 0 25 50

SANTA BARBARA



SAN FRANCISCO AREA (SEE CHART 47)

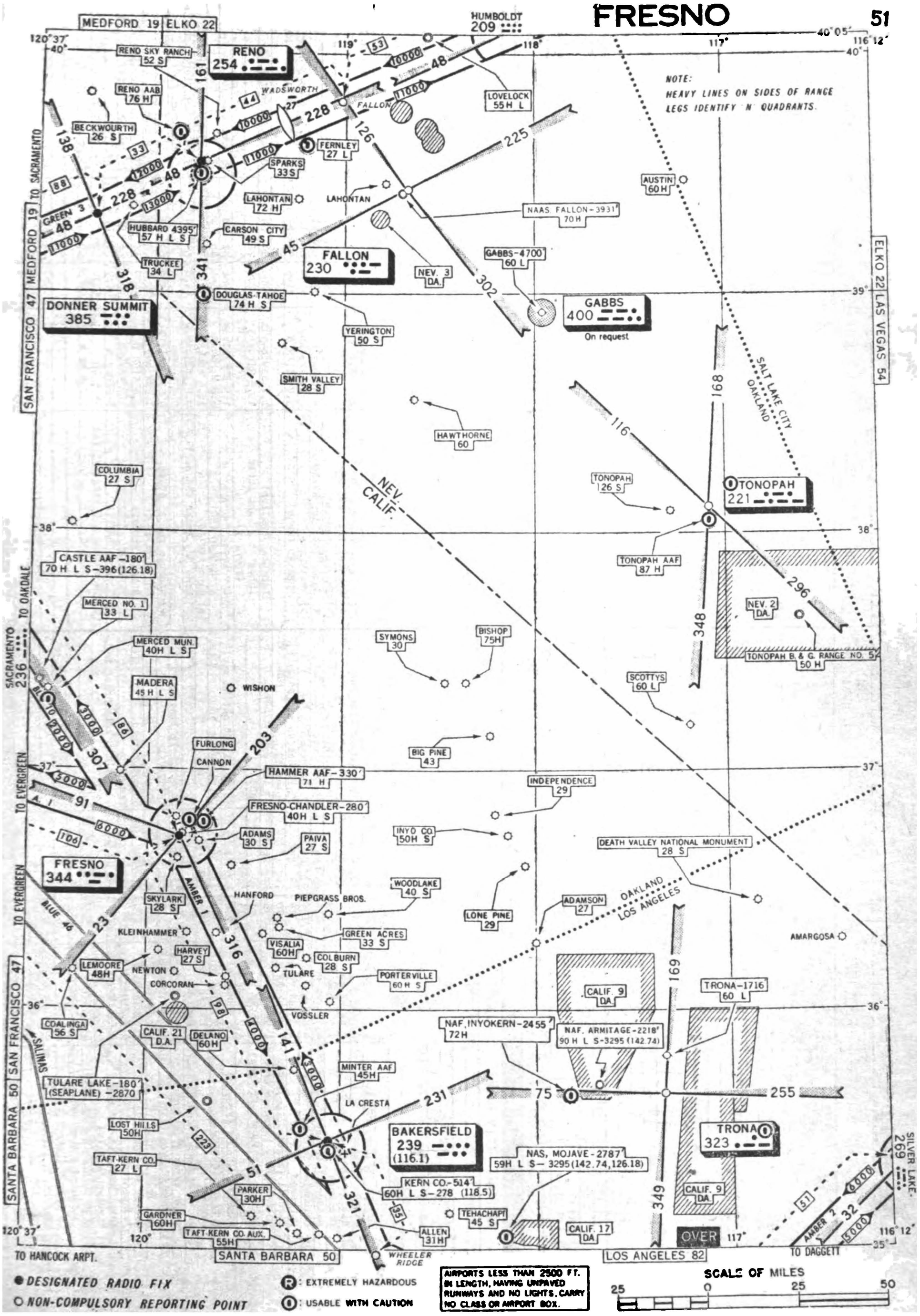


● DESIGNATED RADIO FIX

⊖ NON-COMPULSORY REPORTING POINT

NOTE:
-HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 'R' QUADRANTS.

FRESNO


MEDFORD 19 ELKO 22
HUMBOLDT 209
RENO SKY RANCH 52 S
RENO 254
RENO AAB 76 H
WADSWORTH
FALLON
LOVELOCK 55 H L
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'N' QUADRANTS.
BECKWOURTH 26 S
FERNLEY 27 L
SPARKS 33 S
AUSTIN 60 H
LAHONTAN 72 H
LAHONTAN
NAAS. FALLON-3931' 70 H
HUBBARD 4395' 57 H L S
CARSON CITY 49 S
FALLON 230
GABBS-4700 60 L
TRUCKEE 34 L
NEV. 3 DA.
DONNER SUMMIT 385
DOUGLAS-TAHOE 74 H S
GABBS 400
On request
YERINGTON 50 S
SMITH VALLEY 28 S
SALT LAKE CITY OAKLAND
HAWTHORNE 60
COLUMBIA 27 S
TONOPAH 126 S
TONOPAH 221
NEV. CALIF.
TONOPAH AAF 87 H
CASTLE AAF-180' 70 H L S-396 (126.18)
NEV. 2 DA.
MERCED NO. 1 33 L
SYMONS 30
BISHOP 75H
MERCED MUN. 40H L S
MADERA 45 H L S
WISHON
SCOTTYS 60 L
TONOPAH B. & G. RANGE NO. 5 50 H
BIG PINE 43
FURLONG
CANNON
HAMMER AAF-330' 71 H
INDEPENDENCE 29
FRESNO-CHANDLER-280' 40H L S
ADAMS 30 S
PAIVA 27 S
INYO CO. 50H S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
KLEINHAMMER
GREEN ACRES 33 S
VISALIA 60H
COLBURN 28 S
HARVEY 27 S
LEMOORE 48H
NEWTON
TULARE
PORTERVILLE 60 H S
AMARGOSA
CORCORAN
CALIF. 9 DA.
TRONA-1716 60 L
VOSSLER
COALINGA 56 S
CALIF. 21 D.A.
DELANO 60H
NAF, INYOKERN-2455' 72H
NAF. ARMITAGE-2218' 90 H L S-3295 (142.74)
MINTER AAF 45H
TULARE LAKE-180' (SEAPLANE) -2870
LA CRESTA
LOST HILLS 50H
BAKERSFIELD 239 (116.1)
TRONA 323
NAS, MOJAVE-2787' 59H L S-3295 (142.74,126.18)
TAFT-KERN CO. 27 L
KERN CO.-514' 60H L S-278 (118.5)
PARKER 30H
GARDNER 60H
TEHACHAPI 45 S
CALIF. 17 DA
CALIF. 9 DA
TAFT-KERN CO. AUX. 55H
ALLEN 31H
WHEELER RIDGE
TO HANCOCK ARPT.
SANTA BARBARA 50
LOS ANGELES 82
OVER
TO DAGGETT
SACRAMENTO 236
TO OAKDALE
TO EVERGREEN
SAN FRANCISCO 47
MEDFORD 19 TO SACRAMENTO
ELKO 22 LAS VEGAS 54
SAN FRANCISCO 47 SANTA BARBARA 50
SALINAS
SILVER LAKE 269
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
25 0 25 50

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARMITAGE (Inyokern)	3295(142.74)	CN	(3);126.18,142.74(days)
BAKERSFIELD (Kern Co.)	239 (BD)(116.1)	SBMRAZ-VDT,141°,1.5	(4); 116.1
CASTLE FIELD (Merced)	396 (126.18)	CA	(3); 126.18
FRESNO (Fresno-Chandler)	344 (FT)	SBRAZ-DT, 23°,0.9	(4)
KERN CO., (Bakersfield)	278 (118.5)	C(ILS)	(4);126.18,131.9,118.5
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
TRONA (Int.)	323 (EW)	SBMRAZ-DT, 349°,11	(4) Not manned cont.
TULARE LAKE SEAPLANE ANCHORAGE	2870	CN	

NEVADA

FALLON (NAAS)	230 (VA)	SBRAZ-DT, 219°,2.9	(4) not manned cont.
GABBS (Int.)	400 (GZ)	MHP	(4) not manned cont.
RENO (Hubbard)	254 (RP)(116.1)	SBRAZ-VDT,161°,3.3	(4); 116.1
TONOPAH (AAF)	221 (RY)	SBRAZ-DT,168°,2.8	(4) not manned cont.

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs; Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO., CALIF.	109.9		300° Mag.	IM (.07)	MM ·····(.80)	OM --(4.71)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Fresno)	4 SE;RR S,W	295	30 S6	80,91 oct.No sto.Poleline NNW,SSE.
Adamson (Olancha)	0.6 SE;hwy W	3648	27	30' poles W; 75' twr E.
Allen (Taft)	26 ESE	500	31h	
Amargosa (Death Valley Jct)	0.7 W;hwy E	2037	22 S1	73 oct. Pole line S.
Bakersfield-Kern Co.#2(NC)	6 E;RR, hwy S	660	21	
Big Pine	3.4 ESE;RR W	4000	43	1500'mts SE;1000' mts E.
Bishop	2 ENE;riv E	4121	75h L5	All lgts prior req.
Bryant (Bridgeport)(NC)	0.3 NNE;hwy SW	6465	40	
Cannon (Fresno)	2 N;RR W	310	19 S6	80 oct.Pole line NNW.
(A) Castle (Merced) (A)	7 NW;RR SW	180	70h R1 L5 S6	91,100 oct. JP-1.
Coalinga	1.5 N;hwy E	664	56 S4	80 oct. Hill N,W.
Colburn (Lindsey)	4.7 W;RR E	325	28 S4	73, 91 oct.
Columbia (Sonora)	4 NNW;hwy E	2150	27 S6	73,80 oct.
Corcoran	1.3 WNW;rd S	220	19 S4	73,80 oct.No sto.Poles N.
Cornell (Porterville)(NC)	2.4 SSW;RR E	470	26	Poles SE. NW, SE.
Death Valley (Furnace Creek)	1 WNW	-178	28 S2	87,100 oct.
Defense Plant Corp.(Tulare)	6 SE;RR W	283	23	(NC)
Delano	1.5 SE;RR W	315	60h	
FRESNO-CHANDLER (Fresno)	1.8 W;hwy N	280	40h R1 L5 S6	73,80,91,100 oct.No sto.
Furlong (Fresno)	5.5 NW;RR W	285	33 S6	80,91 oct.
Gardner (Taft)	9 ESE;RR SE	444	60h	
Great Western (Reedley)(NC)	5 N;RR W	380	20	
Green Acres (Visalia)	1.5 NW;RR S	300	33 S6	80 oct.Pole line SE.
(A) Hammer (Fresno)(A)	4.8 NE;rds N,E	330	71h	INACTIVE.
Hanford	1.2 SE;RR W	250	20 S4	80 oct.
Harvey (Corcoran)	2.7 NNW;RR W	200	27 S4	80 oct.No sto.
Independence	0.9 N;hwy W	3926	29	Trees S.
Inyo County (Manzanar)	0.5 E;hwy W	3875	50h L5 S2	80 oct.All lgts prior req.
(N) Inyokern NAF (N)	0.5 WNW; RR E	2455	72h	INACTIVE.
(P) KERN COUNTY (Bakersfield)	4.4 NNW;RR W	514	60h R3 L5 S1	80,91 oct.
Kleinhammer (Lemoore)	1.2 N;hwys S	225	16 S2	80 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data unverified.
Lemoore	9 SW;RR NW	241	48h	
Lone Pine	0.8 SE;RR E	3700	29	Hazardous.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(N) Armitage NAF (Inyokern)(N)	8 ENE	2218	90h R1 L5 S1	91,100 oct.No sto.CLOSED
Boston Land Co.(Westhaven)	1.7 SSW;hwy N.	300	31	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted.

CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Madera	3.5 WNW;hwy E	271	45h L5 S4	80-100 oct. No sto.
Mariposa (NC)	4.5 NW;hwy SW	2250	21	
(P) Merced, mun.	1.6 WSW;RR NE	152	40h L5 S6	80,100 oct.No sto.
Merced #1	2.5 NW;RR SW	165	33 L3	No beacon
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	INACTIVE.
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Monache Meadow (Olancha)	10.8 WSW	8000	25	USFS. (NC)
Newton (Stratford)	2.7 SSW;riv E	194	23 S4	80 oct.No sto.Pwrline N,NW
Paiva Intercity (Parlier)	1.5 WSW;RR NE	330	27 S4	80 oct.Poles ESE.
Parker (Taft)	15 SE	550	30h	
Plepgrass Brothers (Visalia)	3.7 NNW;riv S	320	20 S2	80 oct.
Porterville	3 SW;RR E	430	60h S1	91 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
Sequoia (Visalia)(NC)	8.5 NNW;RR E	310	23	
Shafter-Kern Co.(Shafter)(NC)	2.3 SSE;RRadj E	340	20	
Skylark (Fresno)	8.5 SSW;RR SW	255	28 S6	80,91 oct.
Symons (Bishop)	4 W; hwy N	4350	30	
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2 (Taft)	7 ESE	444	26	(NC)
Taft-Kern Co. Aux. (Taft)	21 SE	444	55h	
Tehachapi	1 N; RR S	3952	45 L S2	73,91 oct. Pole line SE.
Templeton Meadow (Olancha)	12 W	8800	20	S and W blocked. USPS.(NC)
★ Trona Int, 13, RV-ND	5 NE;rd W	1716	60 R1 L3	Fld sur by mtns.
★ Truckee Int, 16B, SF-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec.-Apr.
Tulare	2.9 SSE; RR W	300	20 S6	80,91 oct. No sto.
Tunnel (Olancha) USPS (NC)	16.5 WNW;riv S	9100	21	Mtns - timber 2000' NE.
Visalia	5 W;RR W	300	60h	
Vossler (Woodville)	1.3 E;hwy S	345	25	Trees N, S.
Wishon (Bass Lake) USPS	1.5 WNW	3380	22 S1	Ltd 73 oct. Trees NNW.
Woodlake	2.6 ESE; lake NW	450	40 S4	80 oct. No sto.

NEVADA

(P) Austin	7 WSW;riv NW	5730	60h	
Carson City	3.1 NE;hwy W	4684	49 S6	80 oct.Mts N, hill W.
(P) Douglas-Tahoe (Minden)	2.8 NNE;RR W	4709	74h S6	73 oct.
★ Fernley Int, 22, SF-SL	3.3 E;hwy NW	4156	27 L2	
(N) Fallon NAAS (N)	6 SE;hwy S	3931	70h R1 L5	Lgts on req.
★ Gabbs Int, 36, RV-ND	4 NW;hwy E	4700	60 R1 L3	
(N) Hawthorne	2 N;lake NNW	4200	60 L	Emerg. lgtg on ½ hr req.
HUBBARD (Reno)	3.4 SE;RR N	4395	57h R1 L5 S4	80,91 oct. Fld lgts prior req.
Lahontan (Fallon)	1.4 SSW;hwy N	4000	24 S4	80 oct.Poles ENE,WSW.Hwy W
Lahontan Flight Strip (Fernley)	15.5 S;hwy N	4279	72h	
Lovelock	1.5 ENE;riv W	3986	31 S2	80 oct.
Manhattan (NC)	6.8 W;hwy W	5850	40	
(A) Reno AAB (A)	10.5 NNW;RR SW	5018	76h	INACTIVE. Mtns sur fld.
Reno Sky Ranch (Sparks)	8.5 NNE;hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
★ Scottys Int,22,RV-ND	9 SSE Gold Pt.	4300	60 L2	
Smith Valley	1 ESE;hwy N	4850	28 S6	73,80 oct.
Sparks Airpark	0.6 N;RR S	4400	33 S6	80,91 oct. Pole line W.
Tonopah	3.2 WNW;RR S	5600	26 S1	73 oct. by truck
(A) Tonopah AAF (A)	8 E;hwy N	5427	87h R1	INACTIVE.
(A) Tonopah B & G Range #5 (A)	44.5 SE	5335	50h	Dry lakes N.
Yerington	1.2 N;RR W	4483	50 S1	73 oct.

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT (Love)	347(PN)(116.1)	SBRAZ-VDT,142°,5.5	(4), 116.1
CALIFORNIA			
NEEDLES	400(NJ)(116.1)	BMRLZ-VDT,195°,2.2	(4), 116.1
SILVER LAKE (Int.)	269(RL)(116.1)	SBMRAZ-VDT,132°,1.9	(4), 116.1
NEVADA			
CRYSTAL FM	(-)	FM, 28°, 30	Las Vegas
LAS VEGAS	206(LQ)(116.1) (111.1)	SBMRAZ-VDT	(4)131.7,116.1 only
Las Vegas AAF	278(126.18,118.7)	C (ILS),34°, 1.9	(4), 131.9,118.7,126.18
UTAH			
BRYCE CANYON (Int.)	108.3(BV)(111.1) (116.1)	VAR-VDPT,35°,0.8	3117.5,131.7,116.1, 129.7 cont.(3)req.
ENTERPRISE(Int.)	341(NP)(116.1)	SBMRAZ-VDT,20°, 3.1	(4), 116.1
MILFORD	320(MD)(116.1)	BMRLZ-VT,20°,1	(4), 116.1
ST.GEORGE	108.7(GX)(111.1) (116.1)	VAR-VDP,229°,7.8	3117.5;131.7,116.1, 129.7(3) on req.

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LAS VEGAS AAF, NEV.	110.3		25°Mag	IM	MM ·-·- (.66)	OM -- (4.2)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (4)-3105,4495,6210,3117.5 kcs.; (3)-3105,4495,6210 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is **Available.**

AIRPORTS — ARIZONA

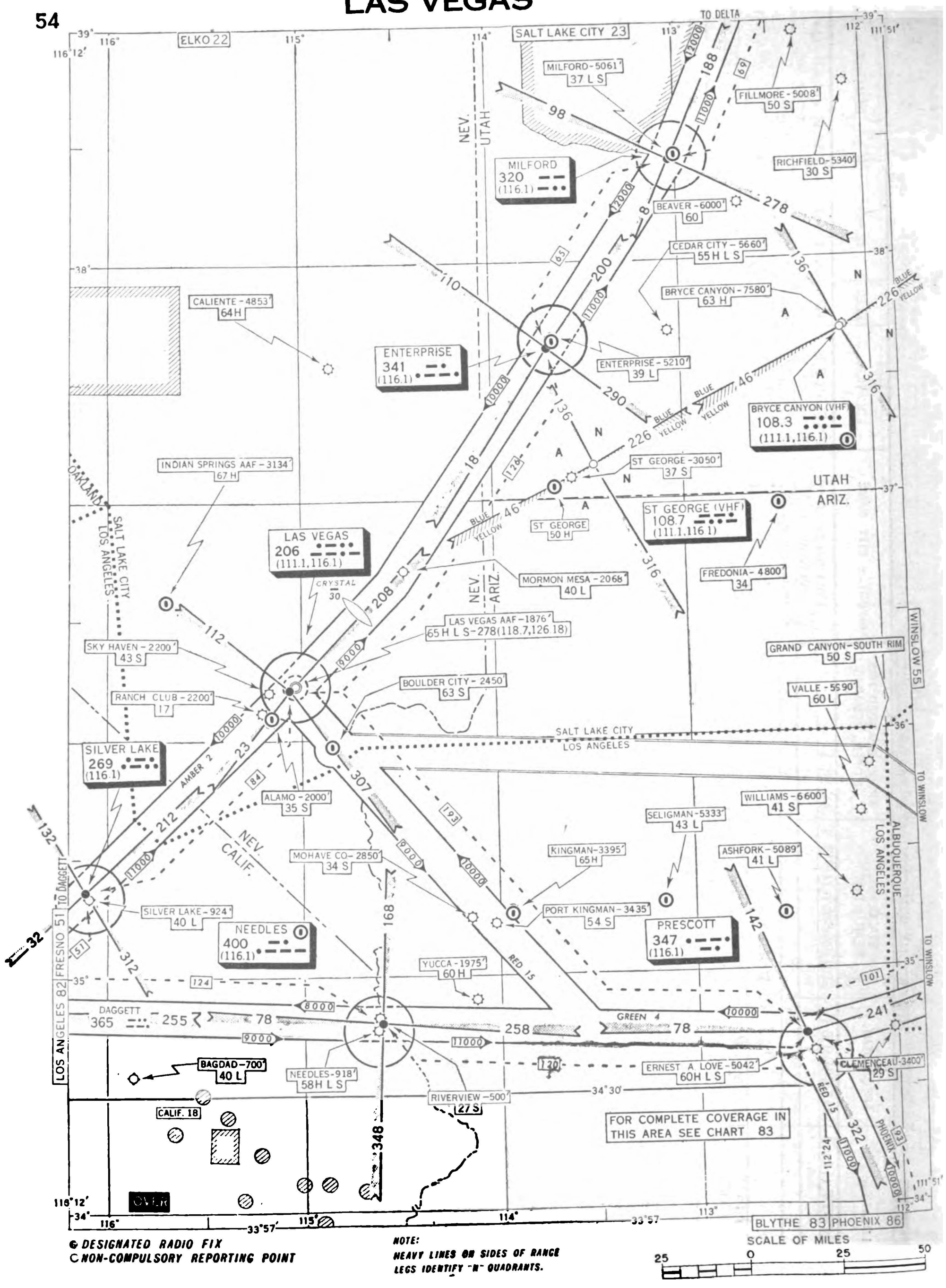
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* Ashfork Int,36A, LA-AQ	4.3 W,RR S	5089	41 L3	
Clemenceau (Cottonwood)	1.7 SSW,hwy NE	3400	29 S4	73 oct.
Ernest A.Love (Prescott)	8 NE,RR E	5042	60h R1 L5 S6	80,91,100 oct.
Fredonia	1 NE,hwy W	4800	34	
Grand Canyon South Rim	14.8 S,RR W	6362	50 S2	80 oct.Trees ENE.
Kingman	8.5 NE,hwy NW	3395	65h	
Mohave Co.(Kingman)	6.5 NW,hwy E	2850	34 S1	73 oct.
Port Kingman (Kingman)	3 NE,RR S,E	3435	54 L3 S1	80,91 oct.All lgts prior req.
* Seligman Int,32,	16 W,road S	5333	43 L3	LA-AQ
Valle	2.3 E'RR W	5990	60 L3	Fld lgts prior req.
Verde Valley(NC)	1.8 SE,riv W	3400	30	(Cottonwood)
Williams	4.3 N,RR E	6600	41 S6	80 oct.Mts SW.
Yucca	1.5 NE,RR W	1975	60h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

ARIZONA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
CALIFORNIA				
* Bagdad Int,16,LA-AQ	1 S,RR N	700	40 L3	
Needles	5.5 S,hwy E	918	58h R1 L3	
Riverview(Needles)	1.4 S,riv N	500	27 S1	80,91 oct.Trees NNE
* Silver Lake Int,18, LA-SL	2.5 SSE,RR E	924	40 R1 L3	Rnwy data unverif.
NEVADA				
Alamo (Las Vegas)	5.5 SSW,RR SW	2000	35 S4	73,80,91 oct.
(N) BOULDER CITY	1.8 SW,RR W	2450	63 L1 S4	73,80 oct,by truck;91 oct for airlines.
Caliente Flgt Strip	19 W,hwy N	4853	64h	
(A) Indian Springs(A)	2 WNW	3134	67h	INACTIVE.
(A) Las Vegas AAF(A)	7.8 NE,hwy NW	1876	65h R3 L5 S6,	100 oct. No sto.
* Mormon Mesa Int, 31B,LA-SL	6 ENE Glendale	2068	40 L3	
Pahranagat(Alamo)	0.7 W,hwy E	4300	26	(NC)
Ranch Club(Las Vegas)	5.5 SW,RR E	2200	17	Mts WSW,ENE,E.
Searchlight Landing Strip (NC)	10.8 SSE,hwy E	2536	40	
Sky Haven	3.3 NW,hwy W	2200	43 S4	80,91 oct.(Las Vegas)
UTAH				
Beaver	3.2 SSW,hwy E	6000	60	
* Bryce Canyon Int, 45, LA-DV	5 N,hwy S	7580	63 L3 S2	No fuel.
Cedar City	2.3 NW,hwy W	5660	55h L5 S6	80,91 oct.
* Enterprise Int,39,	8 NNE,hwy N	5210	39 R1 L3	LA-SL
Fillmore	2 WSW,hwy SE	5008	50 S2	73 oct.
Milford,45,LA-SL	2.3 NNW,RR E	5061	37 R1 L3 S1	80 oct.
Richfield	1.8 SSW,RR E	5340	30 S4	80 oct.
St.George	1.5 SSW,riv SSE	3050	37 L2 S4	80 oct Fld lgts & svcg prior req.
* St.George Int,36, LA-DV	6 SE		50h	

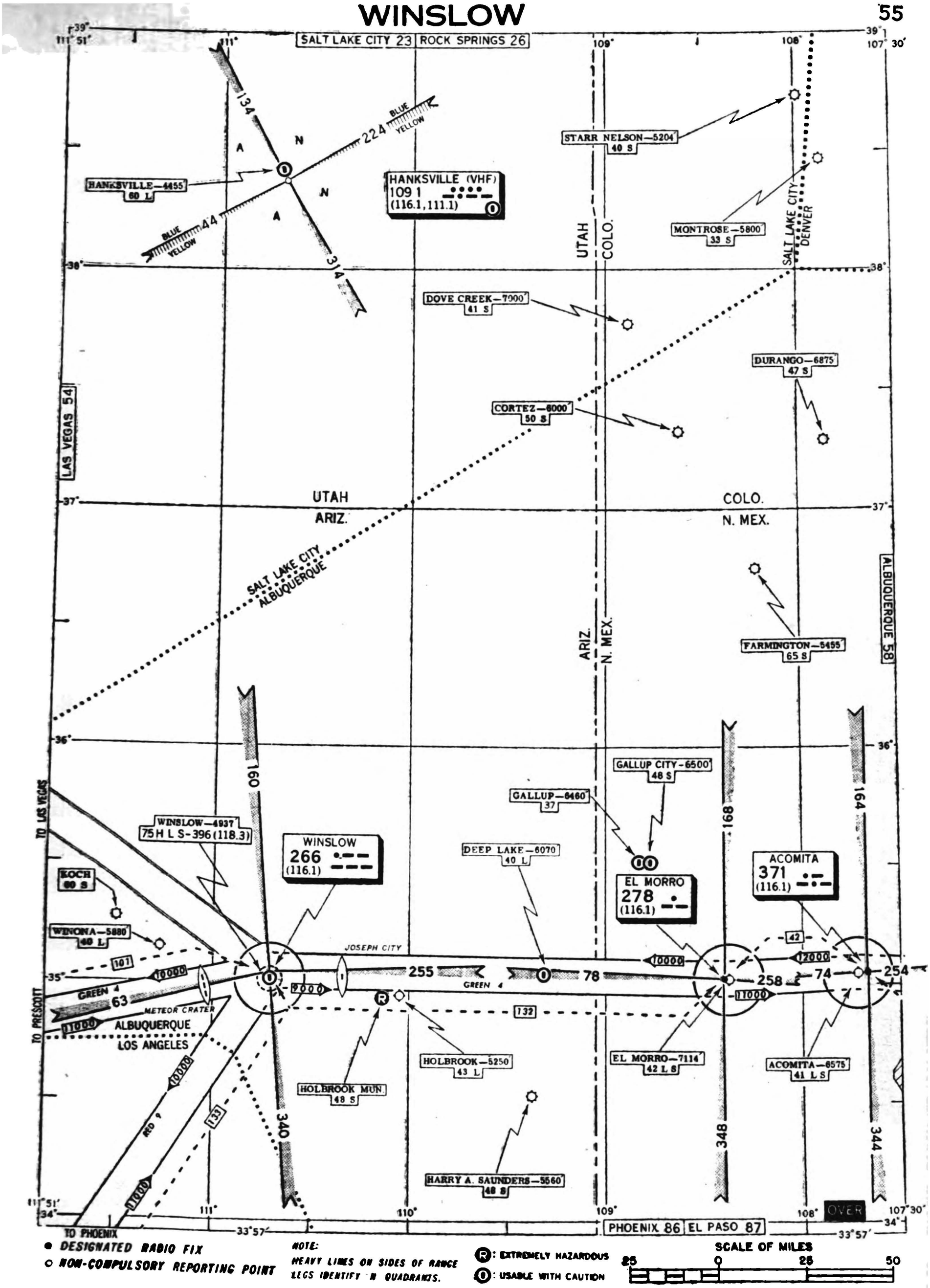
LAS VEGAS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

WINSLOW


SALT LAKE CITY 23
ROCK SPRINGS 26
39°
111° 51'
111°
109°
108°
107° 30'
134
224
314
44
A
N
A
N
BLUE
YELLOW
BLUE
YELLOW
HANKSVILLE—4455
60 L
HANKSVILLE (VHF)
109 1
(116.1, 111.1)
STARR NELSON—5204
40 S
MONTROSE—5800
33 S
SALT LAKE CITY
DENVER
UTAH
COLO.
38°
DOVE CREEK—7000
41 S
DURANGO—6875
47 S
CORTEZ—6000
50 S
LAS VEGAS 54
37°
UTAH
ARIZ.
COLO.
N. MEX.
SALT LAKE CITY
ALBUQUERQUE
ARIZ.
N. MEX.
FARMINGTON—5455
65 S
ALBUQUERQUE 58
36°
160
168
164
TO LAS VEGAS
GALLUP CITY—6500
48 S
GALLUP—6460
37
WINSLOW—4937
75 H L S-396 (118.3)
WINSLOW
266
(116.1)
DEEP LAKE—6070
40 L
EL MORRO
278
(116.1)
ACOMITA
371
(116.1)
KOCH
60 S
WINONA—5880
40 L
JOSEPH CITY
101
10000
35°
GREEN 4
63
METEOR CRATER
11000
ALBUQUERQUE
LOS ANGELES
TO PRESCOTT
255
GREEN 4
78
9000
132
258
74
254
12000
11000
42
HOLBROOK—5250
43 L
HOLBROOK MUN.
48 S
EL MORRO—7114
42 L S
ACOMITA—6575
41 L S
340
348
344
RED 9
133
HARRY A. SAUNDERS—5560
48 S
111° 51'
34°
111°
110°
109°
108°
107° 30'
33° 57'
TO PHOENIX
PHOENIX 86
EL PASO 87
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
25
0
25
50

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JOSEPH CITY FM	(-)	FM, 75°, 20	Winslow
METEOR CRATER FM	(- - -)	FM, 243°,18	Winslow
WINSLOW	266(WO)(116.1)	SBRAZ-VDT	(4). 116.1
Winslow Airport	396 (118.3)	C, 160°, 1.5	(4),118.3,131.9,126.18 (6-18)
NEW MEXICO			
ACOMITA (Int.)	371(AK)(116.1)	BMLZ-VDT,254°,1.9	(4), 116.1
EL MORRO (Int.)	278(EM)(116.1)	BMRLZ-VDT,5°,0.1	(4), 116.1
UTAH			
HANKSVILLE Int.	109.1(HY)(111.1) (116.1)	VAR-VDP,314°,2.8	3117.5:116.1,131.7,129.7 (3) on req. Not manned cont.

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cameron (NC)	1.4 NE;hwy W	4200	50	
★ Deep Lake Int,54A, LA-AQ	1.5 W;hwy E	6070	40 L3	Poles S.
Holbrook	2.2 NNE;RR SE	5200	48 S4	80 oct.
★ " Int,50,LA-AQ	6.6 ENE;hwy N	5250	43 L3	
Koch (Flagstaff)	9.8 NE;hwy S	6587	60 S1	Ltd 80 oct. Hills SW
Saunders, Harry A. (St. Johns)	1.1 NNW,hwy S	5560	48 S2	80 oct. 25' poles NE
Window Rock(NC)	0.8 SSW;rd N	6800	52	Bluffs ENE,NNE
★ Winona Int,43A, LA-AQ	8.9 ESE;hwy N	5880	40 L3	
(P) WINSLOW	2 SW;RR N	4937	75h R2 L5 S1	91 oct.
COLORADO				
(P) Cortez	3.1 SW;hwy E	6000	50 S4	80 oct.
Dove Creek	0.6 E;creek W	7000	41 S1	80 oct. Pwr line SSW
(P) Durango	1.5 NE	6875	47 S6	80 oct.
Mancos (NC)	1.4 NNE;RR S	7500	30	
Montrose	1.3 S,RR NE	5800	33 S4	73 oct.
Starr Nelson(Delta)	4 E;road N	5204	40 S4	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC) Not charted.

NEW MEXICO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Acomita Int,63, LA-AQ	7.8 W;hwy N	6575	41 R1 L3 S1	73,91 oct. in emerg.
Cubero (NC)	2.4 W;hwy S	6200	30	Pole line S. 11,000' mtns N.
★ El Morro Int,59B, LA-AQ	4.5 WSW;lake NW	7114	42 R1 L3 S1	Ltd 91 oct. Rough.
Farmington	1.4 NW on mesa	5455	65 S6	80, 91 oct.
Gallup	4 W;hwy;RR S	6460	37	Poleline SSW
Gallup City	2.6 WSW;RR N	6500	48 S4	80 oct. Pole line WSW.
Indian Service (Shiprock) (NC)	1.8 SSW;riv N	5100	19	Pole line NW.
Aztec (NC)	2.2 NW on mesa	5700	28	Emerg only.
UTAH				
★ Hanksville Int,54, LA-DV	4 NE	4455	60 L3	
Monument Valley (Goulding Trading Post)	0.5 N;hwy E	5284	30	

RADIO

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COLORADO SPRINGS (Peterson)	224 (CD)	MRLWZ 166°,3.9	
FOUNTAIN FM	(- - - -)	FM;334°,32.7	Pueblo
LA JUNTA AAF	281(LH)	SBMRLZ-DT;194°,2.6	(4)
PETERSON FIELD(Colorado Springs	272 (126.18)	CA	(4);116.1,126.18
PUEBLO	302 (PU)	SBRAZ-DT;340°,2	(4)
TRINIDAD	329 (TD)	SBMRAZ-DT;170°,3	(4)

NEW MEXICO

ALBUQUERQUE (Kirtland)	230(AB)(116.1)	SBRAZ-VDT;354°,3	(4); 116.1
ANTON CHICO (Int)	219(AC)(116.1)	MHVT	(4); 116.1
CLOVIS (Army)	203 (DCV)	BMRAZ	(3)
Clovis AAF	396 (126.18)	CA(ILS);34°,6.2	(3); 126.18
Clovis AAF	526 (DCV)	HW-DT; 130°,1.6	
JUAN TOMAS FM	(- -)	FM; 71°, 18	Albuquerque
KIRTLAND FIELD (Albuquerque)	396 (126.18)(118.7)	AC	(4);126.18,118.7,131.9
LAS VEGAS	359(VH)(116.1)	SBMRAZ-VDT;80°,3.2	(4)
MAXWELL FM	(- -)	FM, 170°, 54	Trinidad, Colo.
OTTO (Int.)	290(OT)(116.1)	BMRLZ-VDT;74°,0.2	(4); 116.1
PERALTA FM	(- - -)	FM, 174°, 11.6	Albuquerque
SANTA FE (New)	206(SJ)(116.1)	MHVT	(4); 116.1
SOCORRO	206(OS)(116.1)	MHVT	(4); 116.1
TUCUMCARI	212(YC)(116.1)	SBMRAZ-VDT;76°,2.2	(4); 116.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
CLOVIS AAF, N. MEX.	109.9		33° Mag.	IM (.23)	MM ·····(.86)	OM - -(4.36)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

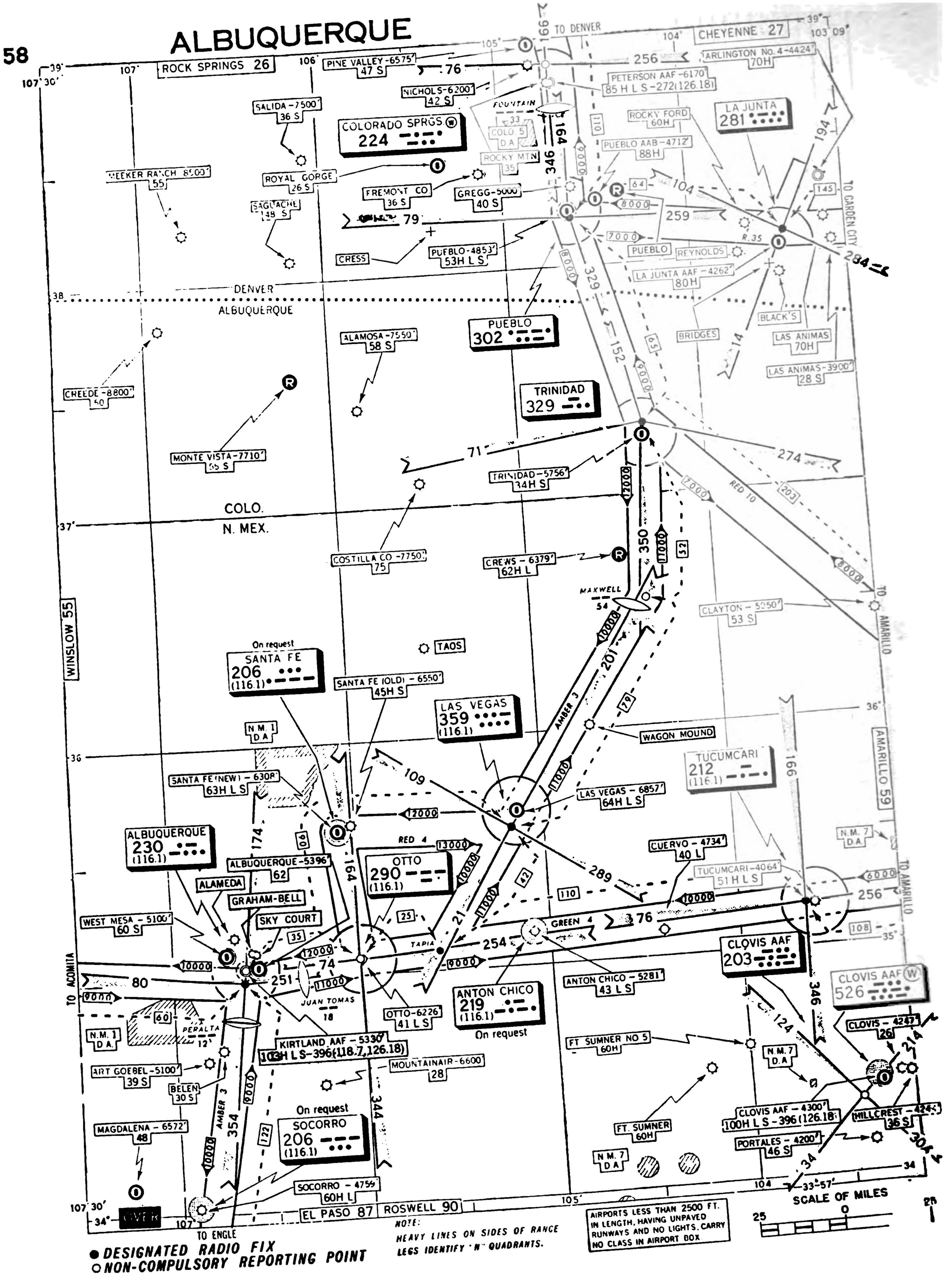
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamosa	2 S; hwy W	7550	58 L3 S4	80 oct. Fld lgts prior req.
(A) Arlington #4(La Junta)(A)	28 NNE	4424	70h	Arlington 3.3 WNW. INACTIVE.
Black's (La Junta)	4.8 S;riv 5 S	4250	21	
Costilla County(Mesita)	4 E; RR W	7750	75	
Creede	2 SSE;hwy NW	8800	50 S2	No fuel. Rough off strips.
Cress (Westcliff)	6 W	8000	30 S1	80 oct. Pole line E.
Fremont Co. (Canon City)	6.9 E; riv S	5350	36 S2	80 oct.
Gregg (Pueblo)	6 N;RR,hwy E	5000	40 S1	80 oct.
(A) La Junta AAF (A)	4.4 NNE;rd W	4262	80h R1	INACTIVE.
La Junta Bridges (La Junta)	3 SW; hwy E		30 S1	80 oct. Data not verified.
Las Animas	1.4 S; RR N	3900	28 S4	80 oct. Poles W.
Las Animas (La Junta)	19 NE	4119	70h	Las Animas 5.9 SSE.
Meeker Ranch (Gunnison)	23 SSE;riv.E	8500	55	
Monte Vista	3.5 W; RR N	7710	55 S4	80 oct.
Nichols (Colorado Spgs)	2.8 NNR;hwy W	6200	42 S6	80,91 oct. Pole line SE,NE,N.
Ordway (NC)	0.9 S; RR N	4300	40	NOT MAINTAINED.
(A) PETERSON (Colorado Spgs)	6.3 E; hwy N	6170	85h R2 L5 S6	73,91,100 oct. No sto.
Pine Valley(ColoradoSpgs)	9.2 N; hwy E	6575	47 S6	80,91 oct. Poles E,W,NNW.
(P) PUEBLO	2.1 SW	4853	53h R1 L5 S6	80,91 oct.
(A) Pueblo AAB (A)	7 NE; RR S	4712	88h	INACTIVE.
Reynolds (Rocky Ford)	3.5 SSW;hwy S	4250	21	Pole line NE
Rocky Ford (La Junta)	13.8 NW	4367	60h	Rocky Ford 6 S.
Rock Mtn.(Colorado Spgs)	6 ESE	6100	35 S2	No fuel.
Royal Gorge(Canon City)	6.4 NW; hwy N	6320	26 S2	80,91 oct. Pole lines N.
Saguache	2 W; hwy NE	7700	48 S1	Ltd 73 oct.
Salida	4 W; RR S	7500	36 S2	80 oct.
Trinidad	10.5 ENE;hwy E	5756	34h R1 L1 S1	80 oct. Use rnwys only.

NEW MEXICO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alameda (Albuquerque)	7.4 N; RR E	5400	37	
Albuquerque	6.3 ESE;hwy N	5429	62	RFC surplus acft fld.
★ Anton Chico Int,78A,LA-AQ	4.5 SE; hwy E	5281	43 R1 L3 S1	91 oct.
Art Goebel (Belen)	3.2 W; RR E	5100	39 S1	Ltd 73 oct.
Belen Air Strip	2.7 N; RR E	5000	30 S1	73 oct.
Clayton	1.5 E; RR S	5050	53 S2	73 oct.
Clovis	0.8 NW;RR S	4247	26	
A) Clovis AAF (A)	6.5 W; RR N	4300	100hR3 L5 S6	73,91,100 oct.
P) Crews,42,EO-PU (Raton)	11.5 SSW;hwy W	6379	62h L2	
★ Cuervo Int,81B,LA-AQ	5 N	4734	40 L3	Poles W, lgtd.
Cutter-Carr #2 (Albuquerque)	3.6 NE; RR W	5120	46	Pole line ENE. (NC)
Eagle Nest Lndg Strip(NC)	1 NE	8450	40	11,000' mts NE. Use in emergency.
Ft. Sumner	1.5 NNE;RR S	4166	60h	
" " #5	16 ENE	4830	60h	
Graham-Bell(Albuquerque)	4.5 ENE	5400	27 S6	73,91 oct.
Hillcrest (Clovis)	2.1 E; RR S	4244	36 S4	73 oct. No sto.Pole line S.
Holbrook's (Cuervo)(NC)	0.8 NE; RR S	4810	19	300' mt. S
A) KIRTLAND (Albuquerque)(A)	3.8 SSE; rd N	5330	103hR2 L6 S6	73,91,100 oct. JP-1. No sto.
LAS VEGAS	6 NE; RR W	6857	64h R1 L5 S6	80,91 oct.
Magdalena	0.8 N; RR S	6572	48 S1	Ltd 73 oct. Pole line SW.
Maxwell (NC)	1.7 N; hwy E	6000	36	
Mountainair	1.1 NNE;RR S	6600	28	Pole line N.
★ Otto Int,73A,LA-AQ	5.8 N Moriarty	6226	41 R1 L3 S1	Ltd 91 oct.
Portales	4.5 SW;RR NNW	4200	46 S1	73 oct.
Roy (NC)	1.5 N; RR W	5900	26	PRIVATE
SANTE FE (new)	9.8 WSW;hwy SE	6308	63h R1 L5 S1	91 oct airlines. Poles E.
" (old)	6.3 SW;hwy E	6550	45h S6	73,80 oct;91 oct in emerg.
Sky Court (Albuquerque)	5.6 ENE;hwy S	5400	30 S6	73 oct. No sto.
Socorro	2.5 S; hwy E	4759	60h R1 L5	Use rnwys only.
Taos	1.7 SSW;hwy W	6956	29	Poles ENE,WSW,WNW.
Tucumcari	7 E;hwy,RR S	4064	51h R1 L5 S6	80,91,100 oct.
Wagon Mound	0.6 WNW;RR E	6500	21	Fence N; mts SE, W.
West Mesa (Albuquerque)	3.8 W; hwy S	5100	60 S6	73,80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

ALBUQUERQUE

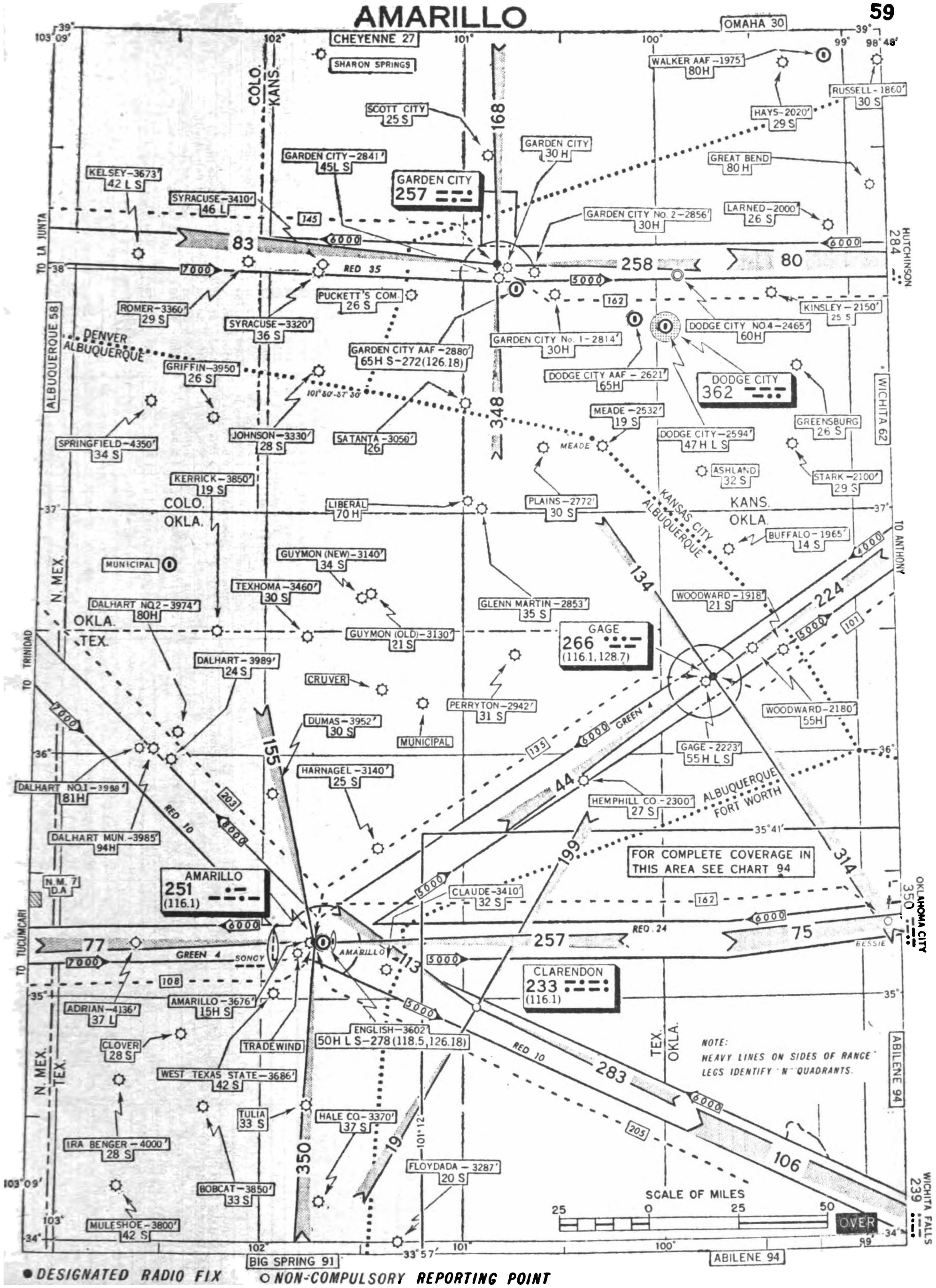


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX

AMARILLO



● DESIGNATED RADIO FIX ○ NON-COMPULSORY REPORTING POINT

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DODGE CITY	**362 (OD)**	**MHT**	**(4)**
GARDEN CITY	**257 (GK)**	**SBRAZ-DT,168°,2.75**	**(4)**
Garden City AAF	**272 (126.18)**	**CA**	**(4): 126.18 (8-17)**

OKLAHOMA

GAGE	266 (VM)(116.1)	SBRAZ-VDT,224°,2.1	(4): 116.1

TEXAS

AMARILLO	251 (AQ)(116.1)	SBRAZ-VDT,77°,2.1 to English Fld	(4); 116.1
AMARILLO LFM	(-)	LFM, 77°, 4.9	Amarillo
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°,2	(4), 116.1
ENGLISH FIELD (Amarillo)	278 (118.5) (126.18)	AC (ILS)	(4): 116.1,131.9,118.5,126.18
SONCY FM	(- - -)	FM, 257°, 11.5	Amarillo

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ENGLISH, TEX.	110.3	335	209° Mag.	IM	MM .--- (.62)	OM -- (4.35)	
					MMR		OMR

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Griffin (Walsh)	0.7 N,RR S	3950	26 S6	80 oct. Poles S.
Lamar,10,PU-WD	3.7 WSW,RR N	3673	42 L3 S2	80 oct
Romer (Holly)	1.5 SSE,riv N	3360	29 S1	Ltd 80 oct. Pole line SW, NW.
Springfield, Com.	3.8 N,hwy W	4350	34 S1	73 oct. Poles NW, W, SW.
Trading Post (Kit Carson) (NC)	0.8 NW,crk E	4290	40	PRIVATE. Pole line S.

KANSAS

Ashland	1 E, RR S	1940	32 S2	80 oct. Poles S, E.
DODGE CITY	3.5 ENE,RR SE	2594	47h R1 L3 S6	80,91 oct. Fld lgts prior req.
(A) Dodge City AAF (A)	6 NW, RR S	2621	65h	INACTIVE;
(A) Dodge City No. 4 (A)	17.4 NNE	2465	60h	INACTIVE.
GARDEN CITY MUN.	3.3 E,riv S	2841	45 R1 L3 S6	73,80 oct. Lgts prior req.
(A) Garden City AAF (A)	9 ESE,riv S	2880	65h R1 S1	91, 100 oct.
Garden City No. 1	19.5 ESE	2814	30h	
Garden City No. 2	13.4 E	2856	30h	
Garden City No. 3	6 ENE	2917	30h	
Glenn Martin(Liberal)	2 ESE,hwy SW	2853	35 S2	80 oct. Pole line SE,SW.
Great Bend	4.5 W,SW	1883	80h	
Greensburg	1 ESE,RR N	2230	26 S1	80 oct. Poles N.
Hays	1.5 E,RR S	2020	29 S6	80, 91 oct.
Johnson	0.5 N,hwy W	3330	28 S6	80 oct. Pole line N,NW,NE,S.
Kinsley	1.5 SSE,riv SE	2150	25 S1	80 oct. Pole line W.
Larned	2 NW,rds E,S	2000	26 S6	80 oct.
Liberal	1.5 WNW	2888	70h	
Meade	3 ESE,hwy N	2532	19 S2	80 oct.Use strips only.Pole line N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii)(NC)-Not charted.

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Plains	1.3 NNE,hwy N	2772	30 S2	80 oct. Pole line S, E.
Pucketts Com.(Lakin)	3.5 S,riv N,NW	3050	26 S1	Ltd 80 oct. Trees N.
Russell	2.7 ESE,RR NE	1860	30 S4	80 oct.No sto. Poles N,S,NE.
Satanta	1 N,RR S	3050	26 S2	No fuel.
Scott City	1.3 ESE,hwy N	2980	25 S1	73 oct. Pole line N,NE,NW,SW.
Sharon Springs	1.2 NNW,RR S	3500	32 S1	80 oct. Pole line E.
Stark (Coldwater)	0.7 NE,RR SE	2100	29 S2	80 oct. Poles N,S,E,SE,NE.
Syracuse	1 N,riv S	3320	36 S2	80 oct. Pole line S,SE.
★ Syracuse Int,16,PU-WD	3.7 NNE,hwy W	3410	46 L3	
(A) Walker AAF (Hays)(A)	12.5 E,hwy S	1975	80h	INACTIVE.

OKLAHOMA

Buffalo	0.6 NW,crk N	1965	14 S2	80 oct.
(P) Gage	1.8 SW,riv N	2223	55h R1 L5 S1	80 oct.
Guymon (new)	3 SW,hwy N	3140	34 S6	73, 80 oct. Pole lines N, E.
Guymon (old)	0.7 S,RR,hwy W	3130	21 S6	73 oct. Pwr line N, S. No sto.
Municipal (Boise City)	3 N,hwy W	4200	33	
Woodward	7.5 W,hwy S,E	2180	55h	
Woodward (mun.)	1.5 SE,hwy W	1918	21 L1 S6	80 oct.

TEXAS

★ Adrian Int,91,LA-AQ	4.2 SSE,RR N	4136	37 L3	
Amarillo	6 ENE,RR NW	3676	15h S6	73 oct. Pole line N,S.
Bobcat (Dimmitt)	1.5 E,RR W	3850	33 S2	73 oct.
Claude	1.2 WNW,RR N	3410	32 S1	73 oct. Pole line S,N,NW.
Clover (Hereford)	2.2 NNE,hwy S	3800	28 S2	73 oct. Pole line N,E,SE.
Cruver	0.7 WNW,RR E	3200	40	Pole line W,E,SE,SW.
Dalhart	6.2 SSE,RR E	3980	24 S6	73 oct.
Dalhart mun.	3 8 SSW:RR N	3989	94h	
Dalhart No. 1	7WSW:RR,hwy E	3989	81h L	
Dalhart No. 2	5.5 NE,hwy NW	3974	80h	
Dumas	0.7 S,hwy W	3952	30 L S2	73 oct. Poles N.
(A) English (Amarillo)	9 ENE,RR N	3602	50h R3 L6 S6	100 oct. Poleline N,NW. INACTIVE.
Floydada	1.2 NNW,RR N	3287	20 S1	80 oct. Pole line S. RR SW.
Hale Co. (Plainview)	1.6 S,hwy E	3370	37 S6	80,91 oct.
Harnagel (Borger)	2.5 SSW,RR N	3140	25 S2	80 oct. Use strips. RR E.
Hemphill Co.(Canadian)	1.5 SW, riv N	2300	27 S2	Ltd 73 oct.
Ira Benger (Friona)	1.8 NE,RR S	4000	28 S2	73 oct.
Kerrick	1.5 N, RR SW	3850	19 S1	80 oct. Pole line SW.
Muleshoe	1 ENE,hwy N	3800	42 S1	73 oct.
Municipal (Spearman)	0.8 NW,RR SE	3104	30	Pole line.
Perryton	3 ENE,hwy N	2942	31 S2	73 oct. Pole line E.
Texhoma	1 SSW,RR N	3460	30 S2	73,91 oct.Pole line N.
Tulia	1.5 NNW,RR W	3500	33 S1	73 oct. Pole line NE,E,SE.
West Texas State (Canyon)	3 N,hwy E	3686	42 S6	73 oct. 20' Poles SE.
→ Tradewind (Amarillo)	1.5 SE	3636	30 S6	Data not verified.

RADIO — KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANTHONY	382 (AY)	MHT	(4)
CASSODAY (Int.)	239 (CY)	MHT	(4)
HUTCHINSON	284 (HN)	SBMRLZ-DT;350°,3.4	(4)
Hutchinson NAS	323(142.74 on req)	CN	(3); 142.74
KECHI FM	(- - - -)	FM, 341°,10.6	Wichita
OXFORD FM	(- -)	FM; 167°, 27	Wichita
SALINA	108.3 (NS)	VARW	
SMOKY HILL (Salina)(Army)	344 (DSN)	BMRLZ-DT	(4)
Smoky Hill AAF	396(116.1)(126.18)	CA(ILS);170°,5.05	(4); 116.1,126.18
TOWANDA FM	(-)	FM, 46°,18.8	Wichita
VIOLA FM	(- - -)	FM, 226°, 24.7	Wichita
WICHITA	332 (WD)	SBRAZ-DT	(4)
Wichita Airport	278(126.18)(118.7)	AC(ILS);167°,0.9	(4);131.9,126.18,118.7

OKLAHOMA

ENID(Army)	209 (DND)	BMRLZ	(3); 126.18
Enid AAF	396 (126.18)	CA; 214°,3.7	(3); 126.18)
PHILLIPS ARPT(Bartlesville)	278	CI	3105 (On req)
PONCA CITY	368(PC)(116.1)	MHVT	(4); 116.1
RED FORK FM	(- - -)	FM, 325°,13.7	Tulsa
SKIATOOK FM	(- - - -)	FM, 298°,17.8	Tulsa
TULSA AIRPORT	278(126.18)(118.5)	AC	(4) 142.74,131.9,118.5. 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SMOKY HILL AAF, KANSAS	109.9	333.8	123° Mag.	IM (.19)	MM ·····(.89)	OM -- (4.20)
					MMK	OMK
WICHITA, KANS.	110.3		2° Mag.	IM ·····(.05)	MM	OM -- (5.37)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; **(4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.**

AIRPORTS — KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abilene	1.7 WSW; RR N	1100	29 S6	80 oct. Trees E;pole line SE.
(P) Anthony,24,AQ-KC	3 WNW; hwy S	1339	48 R1 L3 S6	73,91 oct.
Arkansas City	3.5 S; RR W	1067	28 S6	73, 91 oct.
Arther Airfield (Wichita)	3 SW; RR N	1290	26 S6	73,91 oct. No sto.Poles S.
Baird (Arkansas City)	4 W; hwy S	1100	17 S2	73 oct. Pole line SW, S.
Beech (Wichita)	6 E; hwy N	1378	46h	Factory use only.
Caldwell	1.2 E; RR W	1140	21 S2	73 oct. Poles E, S
Cannon Ball (Wichita)	6.5 WSW;hwy N	1300	24 S6	80 oct. No sto.Pole line N.
★ Cassoday Int,34,AQ-KC	1 SSE; hwy W	1480	32 R1 L3	Twrs S.
Cessna Aircraft (Wichita)	4.5 SE; hwy W	1369	53 S1	80 oct.
Clothier (Cedar Point)	4 SSW;creek E	1320	20 S2	73 oct.
Culver (Wichita)	4 N; hwy W	1320	15h	
Derby	1 NNE; RR W	1305	24 S1	73 oct. Poles N.
El Dorado	3.6 SE; hwy W	1400	25 S6	80 oct. Soft, wet weather.
Ellinwood	1.5 NW; RR S	1790	26 S1	73 oct. Poles N.
Emporia	5.4 S; hwy E	1200	26 S6	80 oct. Poles E,SE,NE.
Eureka	3.2 E; RR N	1100	21	Pole line S.
Frasier (El Dorado)	2.5 S; riv W	1300	25 S6	80 oct. Poles E, NE.
Giffin-Orton (Hoisington)	1.3 NE; hwy S	1870	25 S2	80 oct. Poles S.
Great Bend Airpark	1.6 NNE; RR W	1850	26 S2	80 oct. Poles W.
Herington	1.5 SE; RR W	1450	17 S2	73 oct. Pole line N.
(A) Herington AAF (A)	7.5 ENE	1485	69h	INACTIVE.
Hilltop (Augusta)	2 NE; RR SE	1260	20 S1	73 oct.
Holyrood	0.5 ESE; RR N	1820	17 S1	73 oct. Poles N.
Hutchinson,com	5.5 W; riv NE	1605	20 S4	80 oct.
(P) HUTCHINSON,MUN.	4 ENE; hwy S	1542	70h R1 L5 S6	80,91 oct.
(N) " NAS (N)	8.9 S;RR NNE	1582	70h R1 L5 S5	91,100 oct.
Ken-Mar (Wichita)	3 ENE; RR N	1375	23 S6	80 oct.No sto. Obsts sur fld
Kingman	1.5 NNW;RR S4	1600	26 S1	73 oct. Trees S, SW.
Kiowa Flying Serv.(Kiowa)	2.5 WNW; RR S	1375	19 S1	80 oct. Pole line NNW,SSW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

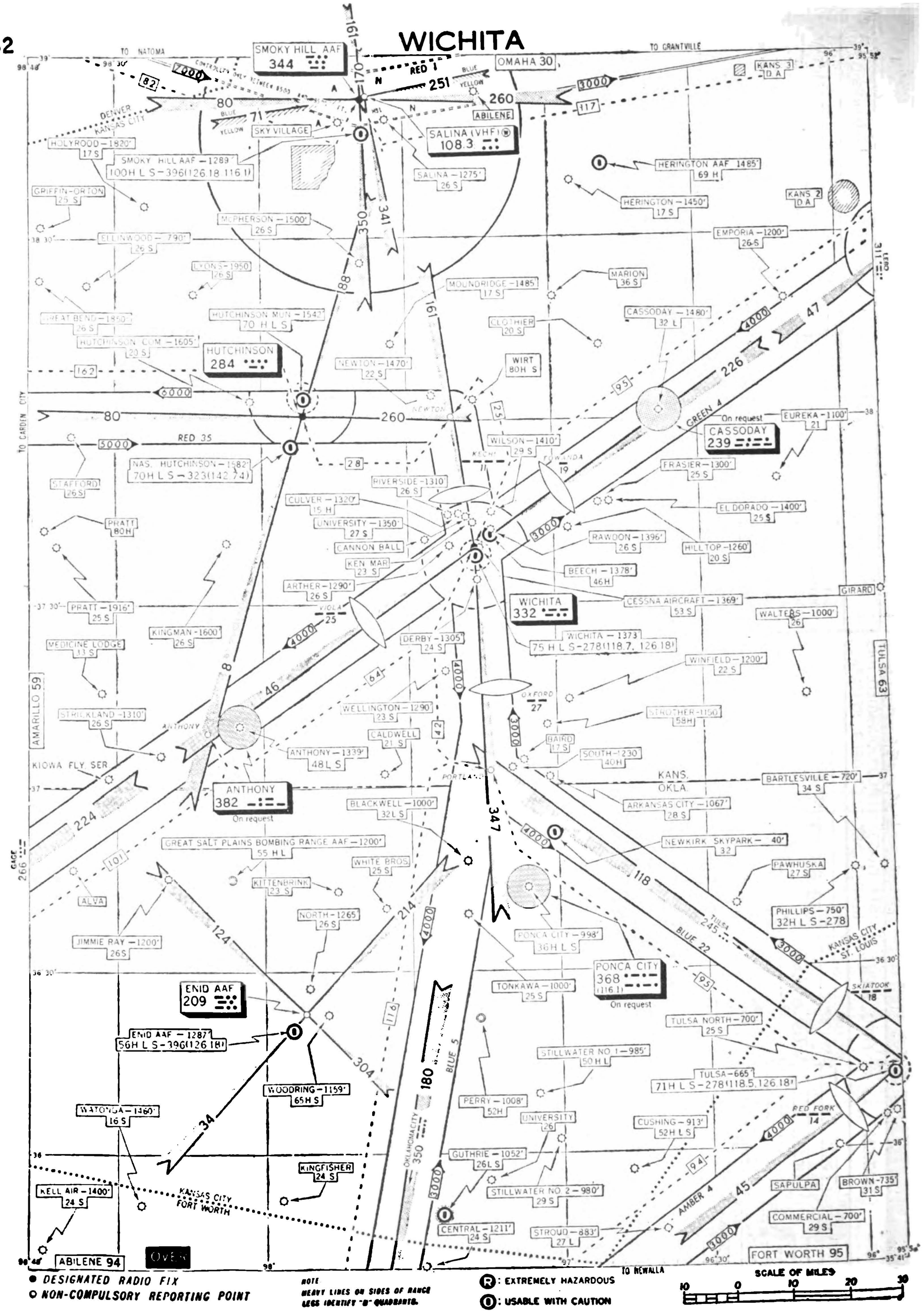
KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lyons	1.4 W; hwy N	1950	26 S6	80 oct. Pole line N.
McPherson	4 NNE; RR W	1500	26 S6	80 oct. Soft when wet.Poles E.
Marion	1.8 ESE;RR W	1370	36 S2	80 oct. Pole line SE.
Medicine Lodge	2.1 SE; RR S	1520	33 S2	80 oct.
Moundridge	2.2 WNW; RR NE	1485	17 S2	Ltd 80 oct. Poles W.
Newton	4 WNW; hwy S	1470	22 S1	80 oct. Poles SE.
Pratt Mun.	2.5 ENE;hwy S	1916	25 S6	73,80 oct.
Pratt	4 N; hwy E	1960	80h	
Rawdon (Wichita)	6.7 E; hwy S	1396	26 S6	73 oct.
Riverside (Wichita)	4 NNW; riv E	1310	26 S1	80 oct. Poles sur fld.
Salina	2.5 SE;riv W	1275	26 S6	80,91 oct.
Sky Village (Salina)	6.6 WSW;RR SE	1270	20 S2	80 oct. Pole line S.
(A) Smoky Hill AAF(Salina)	4.5 SW; RR E	1289	100hR3 L5 S4	73,91,100 oct. No sto. (A)
South (Winfield)	14 SSW	1230	40h	
Stafford	2.6 WSW;RR N	1889	26 S6	80,91 oct. Poles N, S.
Strickland (Hazelton)	2.6 E; RR S	1310	26 S6	73,80 oct. Poles E, N.
Strother (Winfield)	5 SSW;hwy S	1150	58h	
University (Wichita)	5 NE; RR N	1350	27 S6	80,91 oct. Pole line E.
Walters (Sedan)	8 N; hwy W	1000	26	PRIVATE.
Wellington	3.5 N; RR W	1290	23 S2	80 oct. Pole line W,E,S.
(A) WICHITA	5.3 SE; hwy W	1373	75h R3 L5 S6	80,91,100 oct.50' pole N.
Wilson (Wichita)	7.5 NE;RR N	1410	29 S6	73 oct. No sto.
Winfield	2 E; RR S	1200	22 S2	73 oct.Lgt acft only.Pwr lineN.
Wirt (Newton)	4 ENE;rd S	1527	80h S4	80,91 oct.Pole line W,N.Rnwy inf'n unverified.

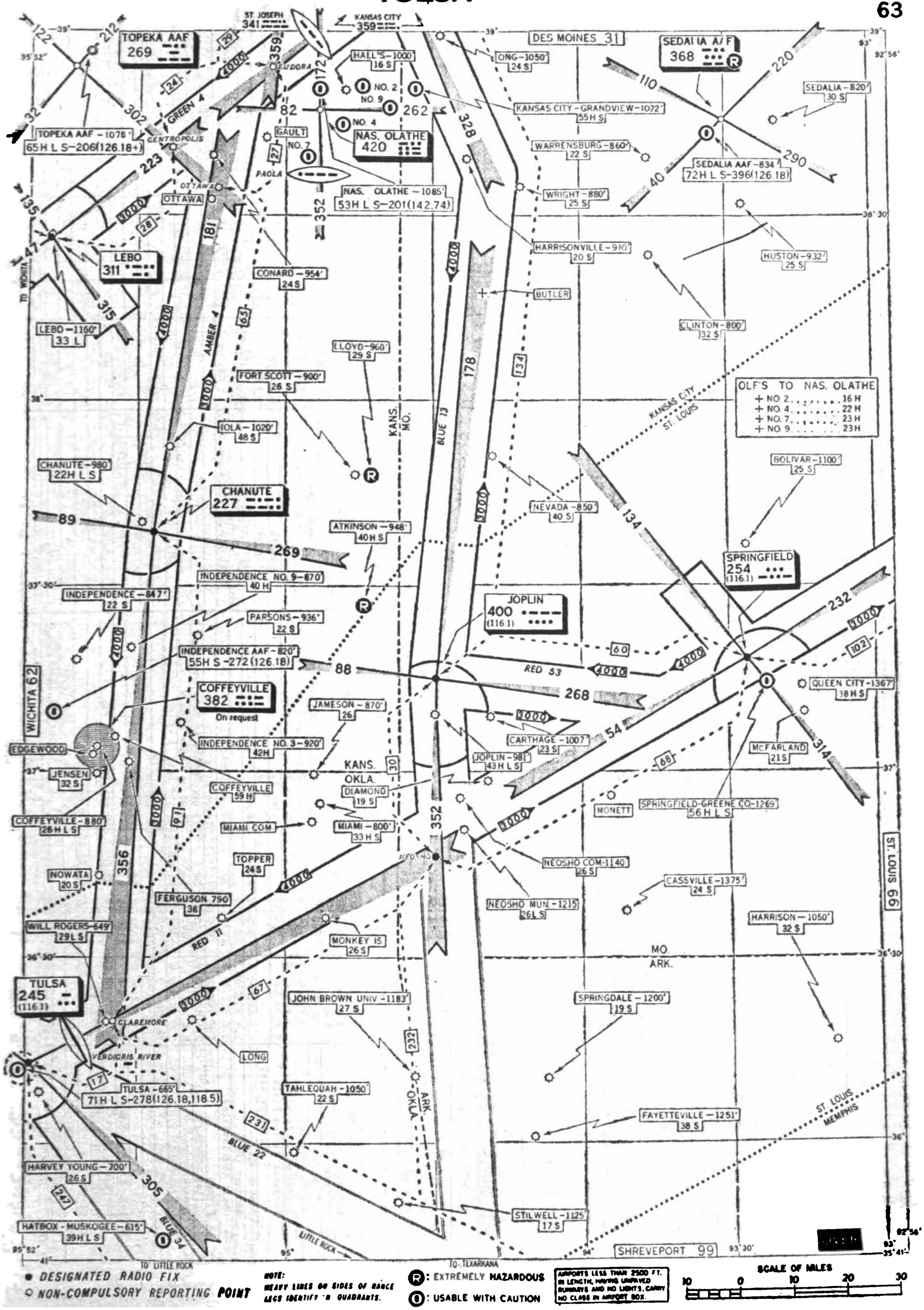
OKLAHOMA

Alva	1.4 S; RR N	1320	26 S1	73 oct
Bartlesville	4 E; rd S	720	34 S6	80 oct.
Blackwell	1.7 W; RR N	1000	32 L4 S6	80 oct.
Brown (Tulsa)	6 SE	735	31 S6	80,91 oct. Pole NW.
Central (Edmond)	2.6 NNE;RR W	1211	24 S1	73 oct.
Commercial (Tulsa)	5.4 SSE;hwy N	700	29 S6	73,80,91 oct. Trees SW.
(P) Cushing	2 S; RR E	913	52h L5 S6	73,80 oct.
(A) Enid AAF (A)	4 SSW; RR E	1287	56h R2 L5 S4	91,100 oct.
(A) Great Salt Plains (Jet)	6 NNE;dam 1 N	1200	55h L5	(A)
★ Guthrie Int,21,FV-WD	2 SSE;hwy W	1052	26 L3 S6	80 oct.
Jimmie Ray (Cherokee)	1.5 E; RR SW	1200	26 S1	80 oct. Trees S.
Kell-Air (Thomas)	1.2 SW; RR N	1400	24 S2	80 oct.
Kingfisher	1.3 NW; RR W	1060	24 S6	73 oct.
Kittenbrink (Jefferson)	2 E; RR W	1100	23 S2	80 oct. Trees N.
Newkirk Skypark	2.5 SE; RR SW	1140	32	Pole N, NW.
North (Enid)	3.8 N; RR E	1265	26 S6	80 oct.
Pawhuska	3.8 W; RR E	1000	27 S1	80 oct. Pole line NE.
(A) Perry (A)	6.6 N; hwy W	1008	52h	
Phillips (Bartlesville)	1.7 WNW;hwy S	750	32h R1 L4 S2	80,91 oct.
PONCA CITY	2.3 NNW;RR S,E	998	36h R1 L4 S6	73,87 oct. Antenna bet twr and
Sapulpa	1.5 ENE;RR W	730	26	Pole line S. hangar, lgtd.
(P) Stillwater #1	3.2 NNW;hwy E	985	50h L3	
" #2	5.6 SSE;hwy W	980	29 S6	73,80 oct.
★ Stroud Int,29A,AQ-LS	3 N; hwy W	883	27 L3	Pole line W lgtd.
Tonkawa	1.6 S;riv NW	1000	25 S1	73 oct. Pole line S, E.
(A,N)TULSA AIRPORT	6.2 NE;RR S	665	71h R2 L5 S6	80-100 oct.JP-1 NATS,NAPC.
Tulsa North (Tulsa)	4.5 NNW;RR E	700	25 S2	80,87 oct.Poles S,SW,SE.
University (Langston)	1 S; rd N	1025	26	Bldg SE corner.
Watonga	1.2 NW;riv SW	1460	16 S6	80 oct. Poles S.
White Brothers (Lamont)	2 WSW; RR E	1000	25 S1	73 oct.
(P) Woodring (Enid)	5 ESE; RR NW	1159	65h L S2	80 oct. Port rnwy lgts prior req.
Marks (Blackwell)(NC)	0.5 S	987	26 S1	80 oct.Data unverified by CAA.

WICHITA


SMOKY HILL AAF 344
OMAHA 30
ABILENE
SALINA (VHF) 108.3
SKY VILLAGE
HOLYROOD – 1820' 17 S
SMOKY HILL AAF – 1289' 100H L S – 396(126.18 116.1)
SALINA – 1275' 26 S
HERINGTON AAF 1485' 69 H
HERINGTON – 1450' 17 S
GRIFFIN-ORTON 25 S
McPHERSON – 1500' 26 S
ELLINWOOD – 790' 26 S
EMPORIA – 1200' 26 S
LYONS – 1950' 26 S
MOUNDRIDGE – 1485' 17 S
MARION 36 S
CASSODAY – 1480' 32 L
CLOTHIER 20 S
HUTCHINSON MUN – 1542' 70 H L S
GREAT BEND – 1850' 26 S
HUTCHINSON COM – 1605' 20 S
HUTCHINSON 284
NEWTON – 1470' 22 S
WIRT 80H S
CASSODAY 239
On request
EUREKA – 1100' 21
WILSON – 1410' 29 S
NAS. HUTCHINSON – 1582' 70H L S – 323(142.74)
STAFFORD 26 S
RIVERSIDE – 1310' 26 S
FRASIER – 1300' 25 S
EL DORADO – 1400' 25 S
CULVER – 1320' 15 H
UNIVERSITY – 1350' 27 S
CANNON BALL
KEN MAR 23 S
PRATT 80H
RAWDON – 1396' 26 S
HILL TOP – 1260' 20 S
BEECH – 1378' 46 H
ARTHER – 1290' 26 S
PRATT – 1916' 25 S
WICHITA 332
CESSNA AIRCRAFT – 1369' 53 S
GIRARD
WALTERS – 1000' 26
KINGMAN – 1600' 26 S
WICHITA – 1373 75 H L S – 278(118.7, 126.18)
DERBY – 1305' 24 S
MEDICINE LODGE 33 S
WINFIELD – 1200' 22 S
STRICKLAND – 1310' 26 S
WELLINGTON – 1290' 23 S
OXFORD 27
STROTHER – 1150' 58H
CALDWELL 21 S
BAIRD 17 S
SOUTH – 1230' 40H
ANTHONY – 1339' 48 L S
KIOWA FLY. SER.
KANS. OKLA.
BARTLESVILLE – 720' 34 S
ANTHONY 382
On request
BLACKWELL – 1000' 32 L S
ARKANSAS CITY – 1067' 28 S
GREAT SALT PLAINS BOMBING RANGE AAF – 1200' 55 H L
NEWKIRK SKYPARK – 40' 32
WHITE BROS 25 S
PAWHUSKA 27 S
KITTENBRINK 23 S
ALVA
NORTH – 1265' 26 S
PHILLIPS – 750' 32H L S – 278
JIMMIE RAY – 1200' 26 S
PONCA CITY – 998' 36 H L S
PONCA CITY 368 (116.1)
On request
TONKAWA – 1000' 25 S
ENID AAF 209
TULSA NORTH – 700' 25 S
ENID AAF – 1287' 56H L S – 396(126.18)
STILLWATER NO 1 – 985' 50 H L
TULSA – 665' 71H L S – 278(118.5, 126.18)
WOODRING – 1159' 65H S
PERRY – 1008' 52H
UNIVERSITY 26
CUSHING – 913' 52H L S
WATONGA – 1360' 16 S
GUTHRIE – 1052' 26 L S
KINGFISHER 24 S
STILLWATER NO 2 – 980' 29 S
KELL AIR – 1400' 24 S
CENTRAL – 1211' 24 S
STROUD – 883' 27 L
SAPULPA
BROWN – 735' 31 S
COMMERCIAL – 700' 29 S
ABILENE 94
FORT WORTH 95
TO NEWALLA
TO NATOMA
TO GRANTVILLE
TO GARDEN CITY
AMARILLO 59
TULSA 63
KANSAS CITY FORT WORTH
KANSAS CITY ST. LOUIS
DENVER KANSAS CITY
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

TULSA


TOPEKA AAF 269
TOPEKA AAF – 1078'
65H L S–206(126.18+)
LEBO 311
LEBO – 1160'
33 L
CHANUTE 227
CHANUTE – 980'
22H L S
INDEPENDENCE AAF – 820'
55H S –272 (126.18)
COFFEYVILLE 382
On request
COFFEYVILLE – 880'
26H L S
TULSA 245
(116.1)
TULSA – 665'
71H L S–278(126.18,118.5)
HATBOX – MUSKOGEE – 615'
39H L S
NAS. OLATHE 420
NAS. OLATHE – 1085'
53H L S–201(142.74)
SEDALIA A/F 368
SEDALIA AAF – 834'
72H L S–396(126.18)
JOPLIN 400
(116.1)
SPRINGFIELD 254
(116.1)
SPRINGFIELD-GREENE CO–1269'
56H L S
OLF'S TO NAS. OLATHE
+ NO. 2 . . . . . 16 H
+ NO. 4 . . . . . 22 H
+ NO. 7 . . . . . 23 H
+ NO. 9 . . . . . 23 H
ST. JOSEPH 341
KANSAS CITY 359
DES MOINES 31
ST. LOUIS 99
SHREVEPORT 99
HALLS – 1000' 16 S
ONG – 1050' 24 S
SEDALIA – 820' 30 S
KANSAS CITY – GRANDVIEW – 1072' 55H S
WARRENSBURG – 860' 22 S
WRIGHT – 880' 25 S
HARRISONVILLE – 910' 20 S
HUSTON – 932' 25 S
BUTLER
CLINTON – 800' 32 S
CONARD – 954' 24 S
LLOYD – 960' 29 S
FORT SCOTT – 900' 26 S
IOLA – 1020' 48 S
GAULT NO. 7
PAOLA
OTTAWA
GREEN 4
AMBER 4
BLUE 13
KANS. MO.
KANSAS CITY ST. LOUIS
TO WICHITA
CHANUTE – 980' 22H L S
ATKINSON – 948' 40H S
INDEPENDENCE NO. 9 – 870' 40 H
INDEPENDENCE – 847' 22 S
PARSONS – 936' 22 S
WICHITA 62
EDGEWOOD
JENSEN 32 S
COFFEYVILLE 59 H
JAMESON – 870' 26
INDEPENDENCE NO. 3 – 920' 42H
KANS. OKLA.
DIAMOND 19 S
MIAMI COM
MIAMI – 800' 33 H S
TOPPER 24 S
FERGUSON 790 36
NOWATA 20 S
WILL ROGERS – 649' 29 L S
CLAREMORE
VERDIGRIS RIVER
LONG
HARVEY YOUNG – 700' 26 S
TO LITTLE ROCK
NEVADA – 850' 40 S
NEOSHO COM – 1140' 26 S
NEOSHO MUN. – 1215' 26 L S
CASSVILLE – 1375' 24 S
HARRISON – 1050' 32 S
MONETT
MONKEY IS 26 S
RED 53
RED 11
BLUE 22
BLUE 34
JOHN BROWN UNIV. – 1183' 27 S
SPRINGDALE – 1200' 19 S
FAYETTEVILLE – 1251' 38 S
TAHLEQUAH – 1050' 22 S
STILWELL – 1125' 17 S
ARK. OKLA.
MO. ARK.
ST. LOUIS MEMPHIS
TO TEXARKANA
QUEEN CITY – 1367' 38 H S
CARTHAGE – 1007' 23 S
JOPLIN – 981' 43H L S
McFARLAND 21 S
BOLIVAR – 1100' 25 S
ST. LOUIS 66
WICHITA 62
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'B' QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE	227 (CZ)	SBRAZ-DT, 304°, 2.5	(4)
COFFEYVILLE	382 (KV	MHT	(4)
DE SOTO FM	(- - -)	FM; 224°, 19.6	Kansas City, Mo.
INDEPENDENCE AAP	272 (126.18)	CA	(3); 126.18 (8-20)
LEBO (Int)	311 (LN)	BMLZ-DT, 336°, 0	(4)
OLATHE (Navy)	420 (NUU)	BMRLZ	
Olathe NAS	201 (142.74)	CN;352°, 2.9	(3); 142.74 (8-18)(GCA)
PAOLA FM (Navy)	(, - - -)	FM; 172°, 12	Olathe
TOPEKA (Army)	269 (DTO)	BMRAZ	(4)
Topeka AAP	206 (116.1) (126.18)	CA;320°,3.4	(3); 116.1,126.18
MISSOURI			
JOPLIN	400(JH)(116.1)	BMRLZ-VDT,172°,6.2	(4); 116.1
SEDALIA(Knobnoster)(Army)	368 (DSM)	BMHLZ	
Sedalia AAF	396 (126.18)	CA(ILS);220°, 3	(4); 126.18
SPRINGFIELD (Greene Co.)	254(SX)(116.1)	SBRAZ-VDT,134°,4.3	(4); 116.1
OKLAHOMA			
TULSA	245(TS)(116.1)	SBRAZ-VDT	(4); 116.1
Tulsa Airport	278 (126.18) (118.5)	AC; 225°, 1	(4);142.74,131.9,118.5,126.18
VERDIGRIS RIVER FM	(-)	FM;54°,9.6	Tulsa

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
SEDALIA AAF, MO.	110.3	335	31° bag.	IM (.09)	MM ····· (1.18)	OM -- (4.73)	
					(MHB)		OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Berryville (NC)	1.3 WNW;RR E	1150	13	Trees S.Cattle on fld.
Fayetteville	3.8 S;RR W	1251	38 S6	73 oct.
Harrison	4.1 NW;RR S	1050	32 S1	80 oct.
Springdale	0.8 SSE;hwy W	1200	19 S4	80 oct.Pole lines NW,NE.
KANSAS				
Atkinson (Pittsburg)	2.5 NW;RR W	948	40h S6	80 oct. Flares on req.
Chanute	2 WSW;hwy NW	980	22h R1 L4 S6	80,91 oct.
Coffeyville	5 NNE	743	59h	
" mun.	2 NW;riv E	880	26h R1 L3 S6	73,90 oct.Poles NW;hi-line SW.
Conard (Ottawa)	3.8 NNE;RR S	954	24 S1	80 oct.Pole line N;hedge S.
Edgewood (Coffeyville)	2.5 WNW;RR E	745	25 S1	80 oct.Pole line E,S.
Ferguson Flying Field (Coffeyville)	5 E;RR NW	790	36	Poles S.
Fort Scott	4.5 SW;hwy S	900	28 S2	80 oct.
Gardner (NC)	1.4 WSW;hwy S	1070	39	
Gault (Wellsville)	0.8 ESE;RR N	1020	20 S1	80 oct.Trees E.
Girard	1.7 WNW;RR E	950	14	Trees E.
Hall's (Olathe)	2.6 SSE;RR W	1000	16 S2	73 oct.Cattle on fld.Pole line N.
Independence	5 N;hwy W	847	22 S4	73,91 oct.Pole line W.
(A) " AAF (A)	5.5 SW;hwy W	820	55h R1 S1	91,100 oct.
" #3	24 ESE	920	42h	
" #9	12.5 NE	870	40h	
(P) Iola	3.2 SSE;rd N	1020	48 S6	73,80 oct.
★ Lebo Int,39,AQ-KC	4 ENE;RR N	1160	33 R1 L3	
Lloyd (Ft. Scott)	3.8 SSW;RR SE	960	29 S2	80 oct.Pole line NE.
Mader (Garnett)(NC)	2 WNW;hwy S	1060	26	
(N) Olathe NAS (N)	5.2 SW;RR W	1085	53h R2 L5 S6	100 oct. NATS
(N) " OLF #2 (N)	5 SE	1090	16h	INACTIVE.4 W of Stanley.
(N) " OLF #4 (N)	10 S	1090	22h	1.3 SE of Springhill.INACTIVE.
(N) " OLF #7 (N)	16 SSW	940	23h	4.3 W of Hillsdale.INACTIVE.
(N) " OLF #9 (N)	11 SE	1070	23h	1 N of Stillwell.INACTIVE.
Ottawa	5.3 S;RR W	975	32	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted.

KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Parsons	2 NW;RR S	936	22 S2	80 oct.Soft in wet weather.
(A) Topeka AAF (A)	6 S;RR W	1078	65h R2 L5 S6	73,91,100 Oct.JP-1. No sto.
MISSOURI				
Bolivar	1.8 WSW;hwy N	1100	25 S2	80 oct.Poles N.
Branson (NC)	4 W;hwy W	1069	21	Trees SW.
Carthage	2 S;hwy E	1007	23 S4	80 oct.Pole line W,SW.
Cassville	3.9 S;hwy E	1375	24 S2	80 oct.Trees SW.
Clinton	2 NE;RR SE	800	37 S4	80 oct.Poles SW,S,E,N.
Diamond	2.1 SSW;RR S	1150	19 S2	80 oct.Pole line N,NE,SE.
(P) Grandview (Kansas City)	16.4 S;RR E	1072	55h L5 S2	80,91 oct.Fld lghts prior req.
(P) GREENE CO. (Springfield)	5.5 WNW;RR NE	1269	56h R1 L5 S5	80,91,100 oct. JP-1
Harrisonville	2.1 W;RR N,S	910	20 S1	73 oct. Fld rough.
Huston (Windsor)	4.3 E;hwy N	932	25 S1	80 oct.
JOPLIN	5 NNE;RR N	981	43h R1 L4 S4	80,91 oct.
McFarland (Springfield)	4 SSE;RR S	1310	21 S4	73,80 oct.
Neosho com.	4.8 NNW;hwy W	1140	26 S1	80 oct.Poles SW.
" mun.	2.8 SW;hwy E	1215	26 L3 S2	80 oct.Poles N,antenna E.
(P) Nevada	3 NE;hwy N	850	40 S4	73 oct.Pole line SW,W.
Ong (Kansas City)	9 SE;hwy NE	1050	24 S6	73,80 oct.Pole line N,W.
Queen City (Springfield)	2.1 E;hwy W	1367	38h L3 S4	73-91 oct.Lgts prior req.
Sedalia	6.3 NW;RR S	820	30 S6	80 oct.Poles S.
(A) " AAF (A) (Knobnoster)	2.8 S;hwy N	834	72h R3	INACTIVE.
Warrensburg	7.3 SSW;hwy E	860	22 S6	80 oct.
Wright (Garden City)	1.4 NNW hwy SW	880	25 S1	80 oct.Pole line S.
Butler	1.5 N		25 S2	80 oct. Data unverified.
Monett	0.5 NE; hwy S	1462	24 S2	80 oct.
OKLAHOMA				
Harvey Young (Tulsa)	8.8 E;hwy N	700	26 S6	80 oct.
Hatbox (Muskogee)	2.7W;fork RRs	615	39h L3 S6	73,80 oct.All lgts prior req.
Jameson (Picher)	4.5 W	870	26	
Jensen (South Coffeyville)	0.5 W;RR S,E	735	32 S4	80 oct.Pole line SE.
John Brown Univ. (Mosley)	3.6 ESE;hwy S	1183	27 S4	80 oct.
Long (Pryor)	2 NNE;RR W	650	16 S2	80 oct.Pole line SW.
Miami	2.2 NNW;RR E	800	33h L4 S2	80,91 oct.
" Commercial	1.7 WSW;RR E	800	20 S1	80 oct.
Monkey Island (Afton)	7.8 SE;RR NW	750	26 S1	80 oct. Pole line W.
Nowata	1.6 NNE;RR W	600	20 S1	80 oct.
Stilwell	1.4 N;RR W	1125	17 S2	80 oct.
Tahlequah	4.3 N;rd E	1050	22 S4	80 oct.
Topper (Vinta)	3.9 SW;RR ESE	800	24 S1	73 oct.
(A,N) TULSA AIRPORT	6.2 NE; RR S	665	71h R2 L5 S6	80-100 oct.JP-1. NATS,NAFC.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.

ST. LOUIS

RADIO

ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
WALNUT RIDGE	362 (DWR)	MRLWZ,174°,5	
MISSOURI			
COLUMBIA	379 (CA)	SBRAZ-DT,89°,3.9	(4)
NEW FLORENCE (Int.)	385 (ST)	MHT	(4)
ST. LOUIS	209 (LS)	SBRAZ-DTX	(4)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
VICHY	344(OM)(116.1)	BMRLZ-VDT,310°, 2.7	(4), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT - CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Batesville(Desha)	1 SE, hwy E	400	20 S1	73 oct. Pole line NE.
Biggers (NC)	2 ESE,RR NW	290	45	
Fleeman(Manila)	0.8 S,RR N	240	32 S2	80 oct. Po. line N,NE.
John's Air Park (Flippin)	0.3 NNW,RR S	620	11 S1	80 oct. Trees N.
(P) Jonesboro	3.5 ESE;RR N,SW	264	44h S6	80,91 oct. Use rnwys
Manila #2 (Blytheville)	13.5 W,lake E	240	75	
Milltown(Newport)	13 NE	244	45h	
Walcott #3 (Walnut Ridge)	14 ESE	285	45h	1.5 W of Walcott
Walnut Ridge	4 NE,RR SE	275	50h	

ILLINOIS

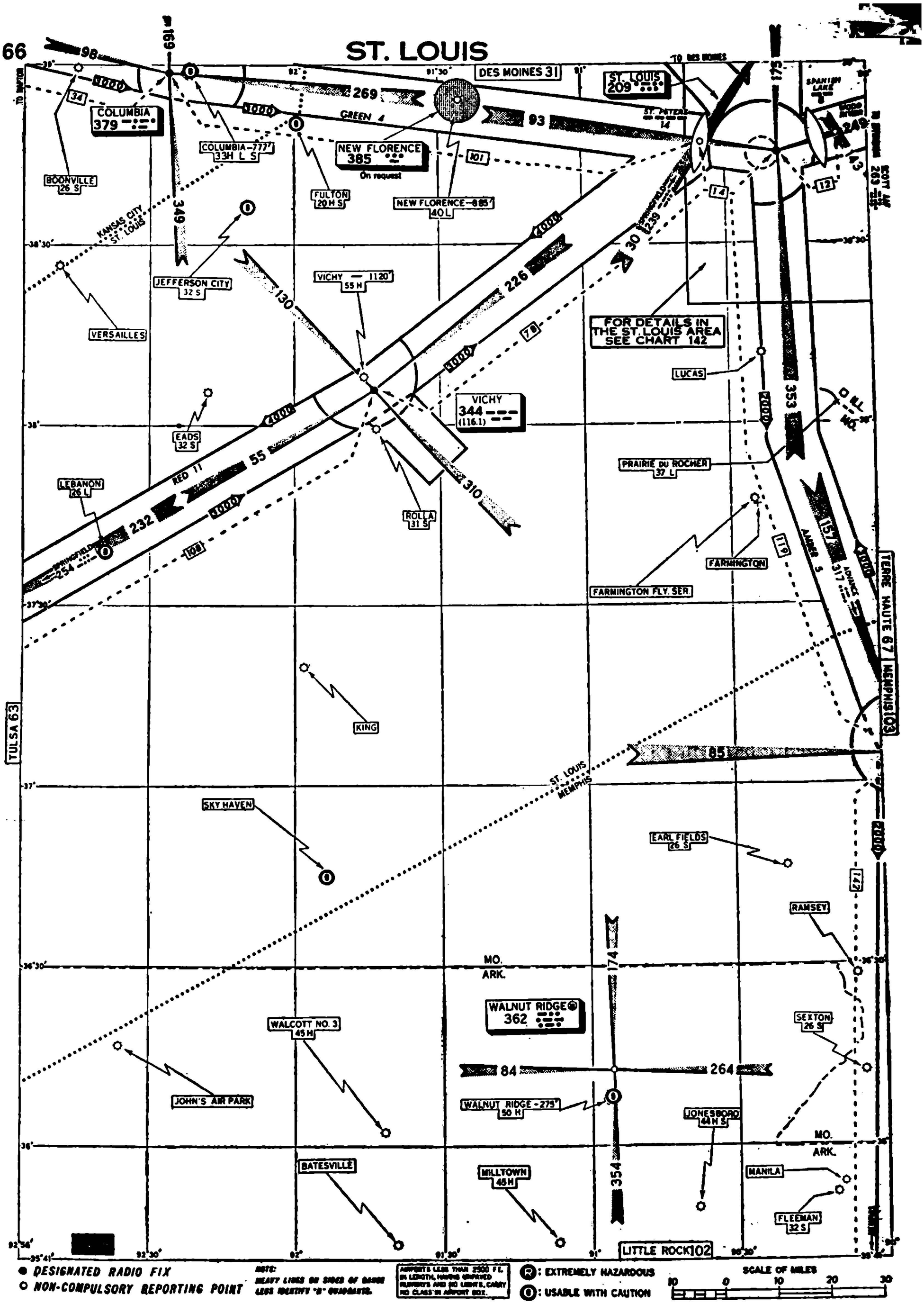
* Prairie du Rocher Int,55, NO-LS	0.5 S,RR NE	390	37 L3	Trees S, N.

MISSOURI

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boonville	1.5 NNW,riv S	602	16 S4	80 oct. Obsts sur fld.
Columbia	2.4 NW,hwy S	777	33h R1 L3 S5	80, 91 oct.
Eads (Iberia)	1.1 W, hwy NE	960	32 S2	80, 91 oct.
Farmington	1 ESE,hwy N,E		35 S6	80 oct. Data not verif.
Farmington Flying Service	0.8 NNE,hwy S	920	17 S4	73 oct. Poles NW.
Fields (Poplar Bluff)	3.8 ENE,hwy S	325	26 S2	73 oct. Pwr line S.
Fulton	3 WSW,hwy SE	875	20h S2	80 oct.
Jefferson City	2 N, hwy S	550	32 S6	80 oct. No sto.
Kennett (NC)	1.3 E,RR W	260	26	30' poles N.
King (Houston)	0.8 WNW,hwy ESE	1180	15 S1	80 oct. Poles S
* Lebanon Int,54B, AQ-LS	2.5 SSE,hwy E	1380	26 L3	
Lucas (Festus)	1.7 S,RR W	425	16 S2	73 oct.
Mel Adkins (Gravois Mills)(NC)	4.2 SSE,hwy W	950	19	
* New Florence Int, 17, KC-LS	1 SSE,hwy N	885	40 R1 L3	
Ramsey (Campbell)	1.6 SW,RR NW	295	14 S2	Ltd 73 oct. Trees NNE
Rolla	3.5 NE,rd S	1201	31 S6	80,91 oct.
Sexton (Kennett)	2.8 SW,hwy E	263	26 S2	80 oct.
Sky Haven (Warrensburg)	7.3 SSW,hwy E	860	22 S6	80 oct.
Versailles	1.7 ENE,RR N	1050	20 S2	80 oct. Pwrline N,NE, NW.
Vichy	1.5 NNW,hwy SW	1120	55h R1	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

ST. LOUIS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

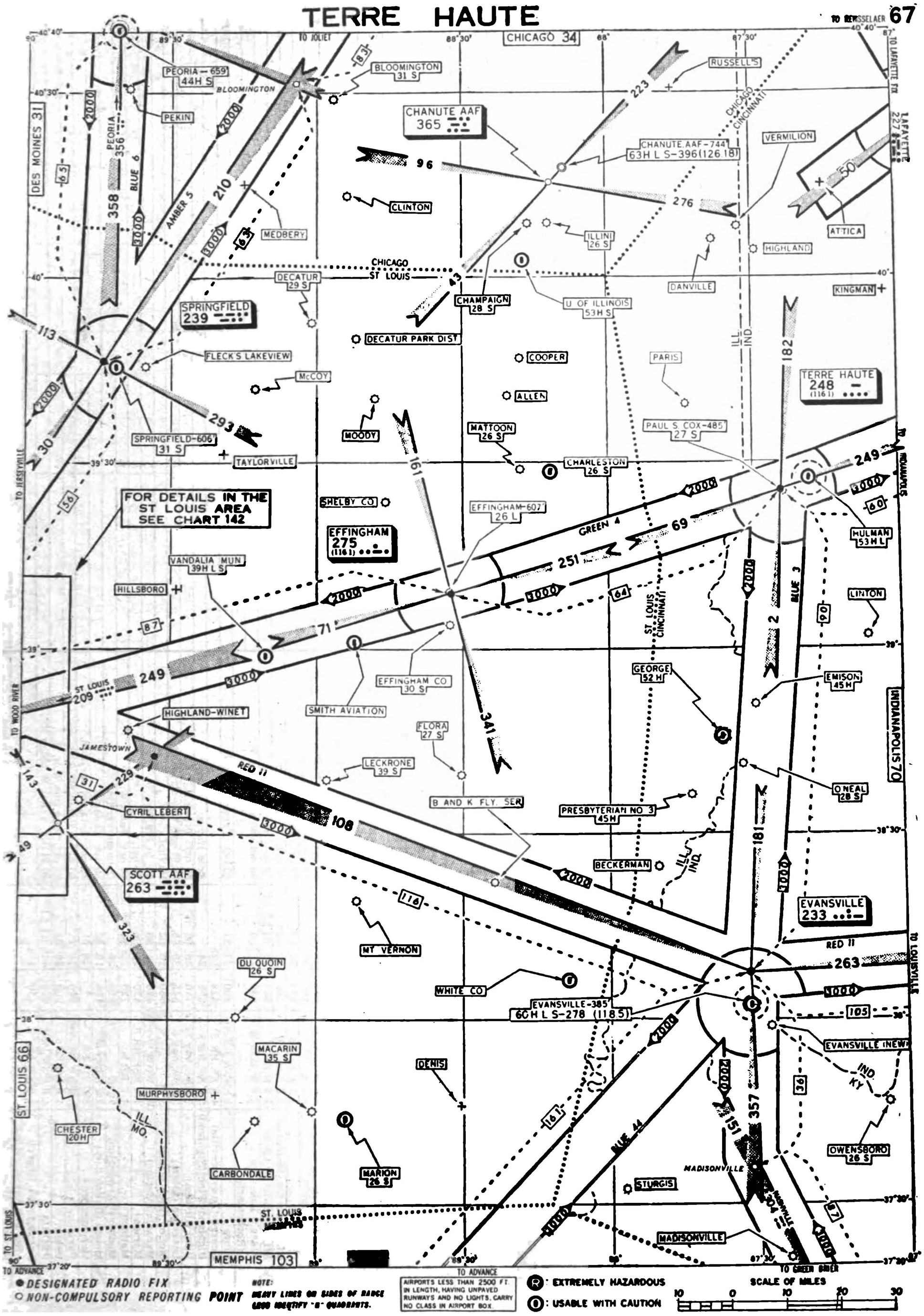
NOTE:
HEAVY LINES ON SIDES OF BASE LESS IDENTIFY "S" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

TERRE HAUTE


TO RENSSELAER
TO LAFAYETTE
TO JOLIET
CHICAGO 34
PEORIA — 659
44H S
BLOOMINGTON
31 S
RUSSELL'S
CHANUTE AAF
365
CHANUTE AAF-744
63H L S-396(126.18)
VERMILION
ATTICA
PEKIN
DES MOINES 31
PEORIA
356
BLUE 6
AMBER 5
MEDBERY
CLINTON
ILLINI
26 S
HIGHLAND
DANVILLE
CHICAGO
ST LOUIS
DECATUR
29 S
CHAMPAIGN
28 S
U OF ILLINOIS
53H S
KINGMAN
SPRINGFIELD
239
DECATUR PARK DIST
FLECK'S LAKEVIEW
McCOY
COOPER
PARIS
TERRE HAUTE
248
(116.1)
SPRINGFIELD-606
31 S
TAYLORVILLE
MOODY
MATTOON
26 S
PAUL S COX-485
27 S
CHARLESTON
26 S
TO JEFFERSONVILLE
FOR DETAILS IN THE ST LOUIS AREA SEE CHART 142
SHELBY CO
EFFINGHAM-607
26 L
EFFINGHAM
275
(116.1)
GREEN 4
MULMAN
53H L
VANDALIA MUN
39H L S
HILLSBORO
LINTON
ST LOUIS
209
EFFINGHAM CO
30 S
SMITH AVIATION
GEORGE
52 H
EMISON
45H
HIGHLAND-WINET
FLORA
27 S
JAMESTOWN
RED 11
LECKRONE
39 S
TO WOOD RIVER
CYRIL LEBERT
B AND K FLY. SER
PRESBYTERIAN NO 3
45H
O'NEAL
28 S
INDIANAPOLIS 70
SCOTT AAF
263
BECKERMAN
EVANSVILLE
233
RED 11
MT VERNON
DU QUOIN
26 S
WHITE CO
EVANSVILLE-385
60H L S-278 (118.5)
EVANSVILLE (NEW)
IND
KY
MACARIN
35 S
DENIS
ST LOUIS 66
MURPHYSBORO
CHESTER
20H
ILL
MO.
CARBONDALE
MARION
26 S
STURGIS
MADISONVILLE
OWENSBORO
26 S
TO ST LOUIS
MEMPHIS 103
TO ADVANCE
TO GREEN RIVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE (Rantoul)(Army)	365 (DNU)	SBMRAZ	(3), 126.18
Chanute Field	396 (126.18)	CA, 43°, 3.3	(3), 126.18
EFFINGHAM	275 (EF)(116.1)	BMRLZ-VDT,341°,0-Intermediate	(4), 116.1
SCOTT (Belleville)(Army)	263 (DCD)	SBMRAPZ-DT,49°,1.8	(4)
SPRINGFIELD	239 (ZD)	SBMRAZ-DT,113°,2.3	(4)
INDIANA			
EVANSVILLE	233 (EV)	SBRAZ-DT	(4)
Evansville Airport (old)	278 (118.5)	C, 177°, 5.5	(4):126.18,118.5,131.9
TERRE HAUTE	248 (TH)(116.1)	BMRLZ-VDT,125°,0-Paul Cox	(4): 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Arcola)	2 W,RR N,E	665	20 S6	80 oct.Pole line N, E.
B & K (Fairfield)	1.4 WSW,RR S	500	21 S2	80 oct. Pole line S.
Beckerman (Mt.Carmel)	4 W,RR S	424	23 S1	80 oct. Pole line N.
(P) Bloomington	3 E,RR N	875	31 S6	80 oct. Pole line N.
Carbondale	0.1 E,lake 2 E	450	20 S4	80 oct. No sto.
Champaign	2 NNW,RR SW	753	28 L S4	73 oct,Range lgts.Appchs blocked.
(A) Chanute (Rantoul)(A)	1 SE,RR W	744	63h R2 L5	73,91,100 oct. JP-1.Pole N.
Charleston	1.3 SW,hwy E	690	26 S6	80 oct.Use marked areas.
Clinton Flying Club	5.5 NE	720	13	
Cooper (Tuscola)	1.6 SW,RR E	650	24 S2	80 oct.Poles NW, SE, NE, E.
Cyril Lebert(Lebanon)	0.5 SE,hwy N	440	22 S2	80 oct.Poles N, W, S.
Danville	2.4 SSW,hwy W	640	24 S4	80 oct. Appchs blocked by poles.
Decatur	4 NW,RR S	678	29 S6	80 oct.
Decatur Park District	4 E,RR,hwy S	679	16 S1	80 oct. Pole line N,SW,NW,NE.
Denis (Muddy)	Adj E	400	27 S1	80 oct.Data unverified.
Du Quoin	1.8 W,hwy S	454	26 S2	73 oct. 25' poles S.
Effingham Co. Memorial	3.6 S,hwy W	585	30 S2	80 oct.
* Effingham Int,10,LS-ID	2.5 N,RR E	607	26 R1 L3 S1	73 oct. on req.
Fleck's Lakeview (Rochester)	2.8 W,lake W	580	21 S6	80 oct. No sto. Poles W.
Flora	1.1 WSW,RR N	490	27 S1	80 oct. Trees, poles N.
George (Lawrenceville)	4.5 NE,RR S	428	52h	
Highland-Winet(Highland)	3.6 NE,RR S	535	24	Pole line S.
Illini (Urbana)	2 NNE,hwy SE	740	26 S6	80 oct. Trees E.
Leckrone (Salem)	1.9 NW,hwy S	545	39 S6	80,91 oct. Use strips only.
McCoy (Blue Mound)	5 W	660	16 S2	No fuel.
Macarin (Marion)	4.6 WNW,hwy W	470	35 S6	80, 91 oct.
Marion	1.8 ESE,RR S	430	26 S6	73 oct.
Mattoon	4 E,RR N	720	26 S4	80 oct. Poles W.
Medbery (Armington)	1 NE	650	26	Data not verified.
Moody (Dalton City)	2.2 S,hwy W	680	19 S2	80 oct. Trees E.
Murphysboro	3 N,riv SE		20 S1	80 oct. Data not verified.
Paris	3.5NNW:RR,hwy	740	30 S1	80,91 oct.Poles SW,S,W.
Pekin	4 S,bet RRs	505	24 S2	80 oct. Pole line W,N, E.
PEORIA	4.8 WSW,rd E	659	44h R1 L1	80,91 oct. Trees W,bldgs NE.
Presbyterian Church No. 3 (Lawrenceville)	4 WNW,hwy E	430	45h	
Russell's (Hoopeston)	6.5 WNW,RR S		13	PRIVATE. Data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted.

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Shelby County (Shelbyville)	1.9 ESE,RR N	677	21 S1	80 oct.
Smith Aviation (St.Elmo)	1.3 SW,RR NW	647	20 L1 S2	80 oct. Poles N, NE.Rnwy data unver
(P) Springfield	3.5 SW,bet RRs	606	31 R1 S6	80,91 oct.Use strips only.
(P) University of Illinois (Champaign)	5.5 SSW,RR E	752	53h S4	80, 91 oct.
Vandalia	4.4 NW	532	39h L2 S2	80 oct.
Vermilion (Danville)	4 E,hwy S	650	21 S2	80 oct. 30' poles S.
White County (Carmi)	1.1 NE, RR S	450	17 S1	80 oct.
Mount Vernon	2.5 ENE,RR S	465	23 S6	80 oct.
Taylorville	1 SW		26 S1	80 oct. Data not verified.
Hillsboro	1 NE	630	25 S4	Inf,not verified
Schilt (Olney) (NC)	1.5 E;RR S		30 S1	80 oct.Data not verified.
INDIANA				
Emison (Oaktown)	3.6 WSW	425	45h	
Evansville (new)	5 E, RR W	388	18 S1	80 oct.
EVANSVILLE (old)	5 NE,bet RRs	385	60h R2 L5 S4	80, 91 oct. Twr W.
Highland (Perrysville)	2.8 WNW,riv E	585	23 S2	Ltd 73 oct.
(P) HULMAN (Terre Haute)	5 ESE,RR N	585	53h L5	Fld lgts prior req.
Kingman Flying Service (Kingman)	0.5 E,hwy N	700	26	
Linton	3.3 E,RR S	500	20 S1	Ltd 80 oct. Pole line N
O'Neal (Vincennes)	1.5 WNW,RR NE	415	28 S6	73,80 oct. NNW approach blocked.
Paul S. Cox (Terre Haute)	3.2 S,riv W	485	27 R1 S4	80, 91 oct. Stacks NE.
Attica	2 S;hwy W	647	26 S1	80 oct.Data not verified.
KENTUCKY				
Madisonville	6 ENE,hwy SE	420	24 S4	80 oct. Use strips only.
Owensboro	2.5 ENE,RR NW	484	26 S6	73, 91 oct. No sto.
Sturgis	1.5 ESE,hwy SW	371	50h	
MISSOURI				
Chester (McBride)	3.8 NW,riv N	372	20h	Allway: 5388 x 4695'

RADIO — INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADVANCE FM	(- - - -)	FM, 330°, 24	Indianapolis
CEDAR GROVE FM	(- - - -)	FM, 297°, 35	Cincinnati, Ohio
CLAYTON FM	(- - -)	FM, 250°, 11.2	Indianapolis
FREEMAN (Seymour)(Army)	203 (DSR)	MRLWZ	
Freeman Field	396 (126.18)	CA; 159°, 11.6	(3); 126.18 (7-23)
Freeman Field (H fac)	219 (DSR)	MH	Operates cont.
GREENCASTLE FM	(. - - - -)	FM, 250°, 27	Indianapolis
GREENFIELD FM	(-)	FM, 82°, 31	Indianapolis
INDIANAPOLIS	266 (ID)(116.1)	SBRAZ-VDT	(4); 116.1
Indianapolis Airport	278 (126.18)	AC (ILS); 82°, 3.3	(4); 131.9, 126.18
LAFAYETTE (Purdue University)	227 (LP)	BMRL-DT; 50°, 2.4	(4)
MILROY (Int)	347 (MV)	MHT	(4)
MORGANTOWN FM	(- -)	FM, 177°, 22	Indianapolis
KENTUCKY			
BOWMAN FIELD (Louisville)	278 (126.18,118.3)	AC	(4);116.1,131.9,126.18,118.3
EASTWOOD FM	(- -)	FM, 89°, 9.4	Louisville
GODMAN (Knoxville)(Army)	227 (DKX)	BMRLZ	
Godman Field	272 (126.18)	CA; 172°, 3.1	(3); 126.18 (6-24)
LOUISVILLE	359 (LV)	SBMRLZ-DTX	(4)
SHEPHERDSVILLE FM	(- - -)	FM, 180°, 18	Louisville
SULPHUR FM	(. - - - -)	FM, 227°, 70	Cincinnati, Ohio
UNION FM	(- - -)	FM, 227°, 24	Cincinnati, Ohio
WARSAW (Int)	212 (WR)	MHT	(4)
OHIO			
CINCINNATI (Lunken)	335 (CC)	SBRAZ-DT; 227°, 5.2	(4)
DAYTON	245 (DY)(116.1)	SBMLZ-VDT	(4); 116.1
Dayton Airport	278 (126.18,118.9)	AC (ILS); 90°, 3.3	(4); 131.9,126.18,118.9
FAIRFIELD FM (Army)	(- - -)	FM, 196°, 9.3	Patterson
LOVELAND FM	(-)	FM, 440, 8.8	Cincinnati
LUNKEN AIRPORT(Cincinnati)	227 (126.18,118.7)	AC	(4); 116.1,131.9,126.18,118.7
PATTERSON (Fairfield)(Army)	379 (DPK)(116.1)	SBMRAPZ-VDT	(4); 116.1
Patterson Field	396 (126.18)	CA (ILS); 32°, 2.96	(4); 126.18 (GCA)
VERONA FM	(- - - -)	FM, 270°, 9.9	Dayton
WRIGHT FIELD (Dayton)	260 (126.1)	CA	3105,4495; 126.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
DAYTON, OHIO	110.3	335	55° Mag.	IM ·····(.05)	MM	OM --(4.4)
				TMK	MMK	OMK
INDIANAPOLIS, INDIANA	109.9 ·:·		44° Mag.	IM ·····(.05)	MM ·---(.89)	OM --(4.3)
					MMK	OMK
PATTERSON, OHIO	108.7	333.8	210° Mag.	IM (.09)	MM ····· (1.5)	OM -- (4.5)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — INDIANA

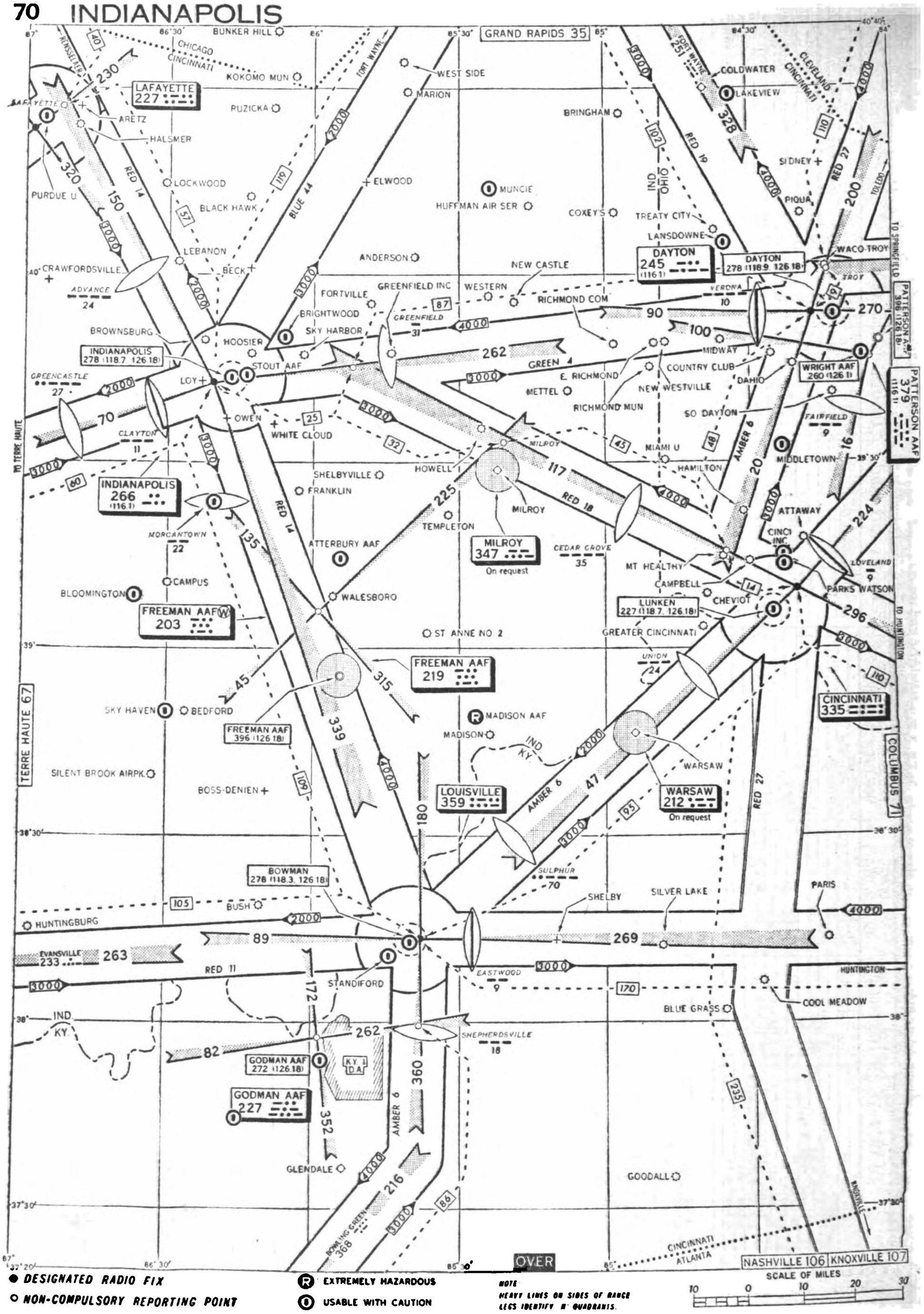
AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Anderson	3.5 SE;RR NE	875	26 S6	80 oct.No sto.Trees E.
Aretz (Lafayette)	4 NE	500	35 S6	80 oct. Data not verified.
(A) Atterbury AAF (Columbus)(A)	3.5 N;hwy S	651	50h	INACTIVE.
Beck (Zionsville)	5 NE;crk W		14 S2	80 oct.Pole line W. Data not verified.
Bedford	3.5 SE	682	19 S2	Ltd 73 oct.Rnwy data not verified.
Black Hawk (Sheridan)	5.3 N;hwy E	600	16 S1	Ltd 73 oct.
(P) Bloomington	5 WSW;RR SE	840	40 S2	73,80oct.Pole line S.Rnwy infr unverified,
Boss-Denien (Salem)	3 WNW;RR N		26 S6	80 oct.Pole line S.Data not verified.
Bringham (Portland)	1.5 E;RR E	1020	20	Poles S;120' tank SW.
Brightwood (Indianapolis)	3.7 NE;rd S		44 S4	80 oct.Data not verified.
Brownsburg	1.5 SSE;RR N	650	20 S1	73 oct.Pole line S.
Bunker Hill	1.8 W;RR N	798	50h	
Bush (Ramsey)	1.5 WSW;hwy N	580	10 S1	73 oct.
Campus (Bloomington)	1.5 ENE;RR S		25 S1	80 oct.Data not verified.
Coxey's (Winchester)	1 ESE;hwy N	1088	16 S4	80 oct.
Crawfordsville	4.5SSW;hwysE,W	850	37 S4	80 oct.No sto.Data unverified.
East Richmond (Richmond)	3.7 ESE;RR E	1090	20 S6	73 oct.
Fortville	2.8 E;rd N	740	15 S1	Ltd 73 oct. Trees SSW.
Franklin Flying Field	4 S;riv S	745	22 S2	80 oct. Trees S.
(A) Freeman (Seymour)(A)	2 SW;hwy N	575	55h R2 L5 S6	73,91,100oct. JP-1
French Lick Springs (NC)	1 SE;RR W	500	27h	
Greenfield,Inc.	1.9 ENE;RR S	910	30 S2	80 oct.Pole line S.
Halemar (Lafayette)	3 ESE;RR S	595	20 S6	80 oct.Poles SW.
Hoosier (Indianapolis)	4 WNW	740	26 S5	80 oct.Pole line NE.
Howells (Rushville)	2 SE;hwy SW	985	21 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) **(NC)-Not charted.**

INDIANA

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Huffman Air Svc.(Selma)	0.8 SE;RR N	1000	15 S4	73 oct.
(P) Huntingburg 19,LS-LV	3 S;RR E	500	31 L2 S2	73 oct.
(P) INDIANAPOLIS	8 SW;hwy N	796	53h R3 L6 S6	73,87,91,100oct.Exper lighting.
Kokomo,mun.	4.7 NE	835	40h L5 S2	80 oct.Pole line E.
Lebanon	1 S;RR N	925	13 S2	80 oct.Trees SW.
Lockwood (Frankfort)	2.5 S;RR W	764	20 S4	80 oct.Ditch W.
Loy (Plainfield)	0.5 NE;RR S		19 S6	73 oct.Data not verified.
Madison Commercial	2.2 N;RR W	960	24 S2	80 oct. Poles E.
(A) Madison AAF (A)	6 NNW;RR SW	850	50h	Closed to all acft.
Mettel (Connersville)	2.4 NNE;RR E	950	29 S1	80 oct.
Marion	3.8 SSW;hwy S	832	24 S4	73 oct.Poles E;hi-line N
★ Milroy Int.5,CC-CQ	5.5 ESE	1034	27 R1 L3	
Muncie	3.5 N;RR SW	950	31h L4 S6	80,91 oct.Lgts prior req. Rnwy info. unver
New Castle	3.2 E;RR S	1040	23 S6	80 oct. No sto.
New Castle Western(New Castle	2.3 NW;lakes SE	1080	26 S2	80 oct.
Owen (Mooresville)	4 E		31 S1	80 oct.Data not verified.
Purdue University(Lafayette)	2.5 W;RR N	605	35h R1 L3 S6	80 oct.Silo N;stack NE.
Richmond,com.	4 WSW;RR N	1075	42 L1 S2	80 oct.
(P) " mun.	6 SSE;RR W	1139	55h L5	Contact lgts on req.
Ruzicka (Kokomo)	2.5 S;RR E	800	22 S6	80 oct.Pole E;trees N.
St. Anne #2 (Seymour)	2.3 NNE	750	45h	
Shelbyville	3.1 S;hwy E	850	19	Pole line E.
Silent Brook (Orleans)	5 W;riv SW	650	20 S4	80 oct.Hi-line SW,W.
Sky Harbor (Indianapolis)	7 ENE;hwy S	730	26 S6	73,80 oct.Pole line E.
(A) Stout (Indianapolis)(A)	5.5 WSW	712	45h	INACTIVE.
Templeton (Greensburg)	3.5 WNW;RR N	915	26 S4	73,80oct.Pwr line S.No sto.
Walesboro (Seymour)	1 WSW Walesboro	616	45h	
West Side (Marion)	2.5 NW;hwy S	835	26 S1	73 oct.Pole line E.
White Cloud (Greenwood)	1.6 SW;hwy E	800	25 S4	Fuel.No sto.Data not verified.
Elwood	1.8 SSE;hwy NE	850	23 S4	80 oct. Data unverified.
Sky Haven (Bedford)	2 SSW;riv S	650	36h S4	80,91 oct.Pole line E,S.Rnwy data not verified
Mapleton (Seymour)(NC)	3 E		18 S4	80 oct.No sto.Data unverified.
KENTUCKY				
Blue Grass (Lexington)	6 W;hwy N	978	40h L5 S1	80 oct.
(A) BOWMAN (LOUISVILLE)	5.5 ESE;hwy S	546	44h R2 L5 S6	73,91,100oct.ARMY INACTIVE.
Cool Meadow (Lexington)	4.8 NE;rd W	910	28 S6	73,80 oct.No sto.Pole line SW.
★ Glendale Int.75B,DL-LV	0.5 NE;RR NW	702	26 L3	
(A) Godman (Fort Knox)(A)	1 NW;RR E	740	52h R2 L5 S4	73,91,100 oct. No sto.
Goodall (Danville)	4.2 S;RR W,S	990	27 S6	80 oct.
(P) Greater Cincinnati(Covington)	8.2 W;riv NE	889	55h L5 S1	80,91oct.Svcg days only.Ctc lgts prior req.
Paris	1.2 NNE	635	20 S1	80 oct. Ravines NE,SE.
Shelby (Shelbyville)	2.5 ENE;hwy S	850	20 S2	80 oct.Data not verified.
Silver Lake (Frankfort)	3.2 E;hwy N	750	25 S2	80 oct.
Standiford (Louisville)	4.3 SSE;RR W	480	50h L5	
★ Warsaw Int,5A,LV-CV	0.8 SW;riv NW	485	30 R1 L3	
OHIO				
Attaway Air Ranch (Mason)	4.2 S;RR NW	850	23 S4	80 oct.No sto.Pole line E.
Campbell (Cincinnati)	6.2 NNW;RR E	820	24 S1	80 oct. Pole line WSW.
Cheviot (Cincinnati)	9 W	914	18 L1 S1	80 oct.
Cincinnati (Sharonville)	2 SE;hwy N	860	37 S6	80 oct.
★ Coldwater Int,4,DY-GO	2 NW;crk NW	898	33 L3	
Country Club (Johnsville)	2.9 N;RR NE	990	26	Poles N,S.
Dahlo (Dayton)	8.5 W;hwy S	925	37 S4	80 oct.
DAYTON	10 N;hwy E	1000	55h R3 L5 S6	73,80,91,100 oct.
Hamilton	2.5 SE;RR SW	615	29 S6	80,91 oct.Poles S,SE;trees NW.
Happy Landings (Morrow)(NC)	2.4 ESE;RR S	880	28	Area SE unusable.
Harrison (NC)	2 ESE;RR SW	580	18	Pole line S.
Hightman (Lebanon)(NC)	3 E;RR W	880	16	Pole line W;trees W,E.
Lakeview (Montezuma)	1 SW;hwy W	895	24 S2	80 oct. Pole N.
(A) LUNKEN (Cincinnati)	4.3 SE;RR SW	481	41h R2 L5 S6	73,91,100oct.Bcn ESE.
Miami University(Oxford)	2.2 WSW;RR W	1040	40 S6	80 oct.Poles N,NW.
Middletown	1.5 N;riv N	653	31 S4	80 oct.
Midway (Lewisburg)	3.4 WSW;RR E	1090	26 S4	80 oct. Trees W.
Mt. Healthy (Cincinnati)	9.5 NW;hwy E	870	22 S6	80 oct.Poles E;woods W.
New Westville (New Paris)	2.8 S;RR S	1180	21 S1	80 oct.Poles NW,E,SE.
Parks Watson(Cincinnati)	9 NE;RR E	865	25 S6	80 oct.
(A) Patterson (Fairfield)(A)	1.6 WSW	819	78h R3 L6 S4	73,100 oct.JP-1
Piqua	4 WNW;RR S	1000	19 S2	80 oct.Poles S,SE,SW.
Polk Grove(Vandalia)(NC)	3.6 W;riv W	975		UNUSABLE.
Sidney	1 W;RR S		25 S2	80 oct.Data not verified.
South Dayton (Dayton)	5 SSW;RR W	750	32 S6	80 oct.No sto.Hills S.
Treaty City (Greenville)	1.5 NNE;hwy W	1060	20 S4	80 oct.Pole line W.
Wsop-Troy (Troy)	1.8 SW;RR SE	870	29 S1	80 oct.
(A) Wright (Dayton)(A)	5 ENE;RR NW	800	72h R1 L5 S2	62,73,91,100oct.JP-1.CLOSED.
Lansdowne (Greenville)	2 ESE;RR N		19	Bldgs,hi-line N. Data unverified.
Port Koneta (Wapakoneta)(NC)	2.5 NNE;RR E		26 S4	80 oct.Data unverified.

INDIANAPOLIS



OVER

● DESIGNATED RADIO FIX

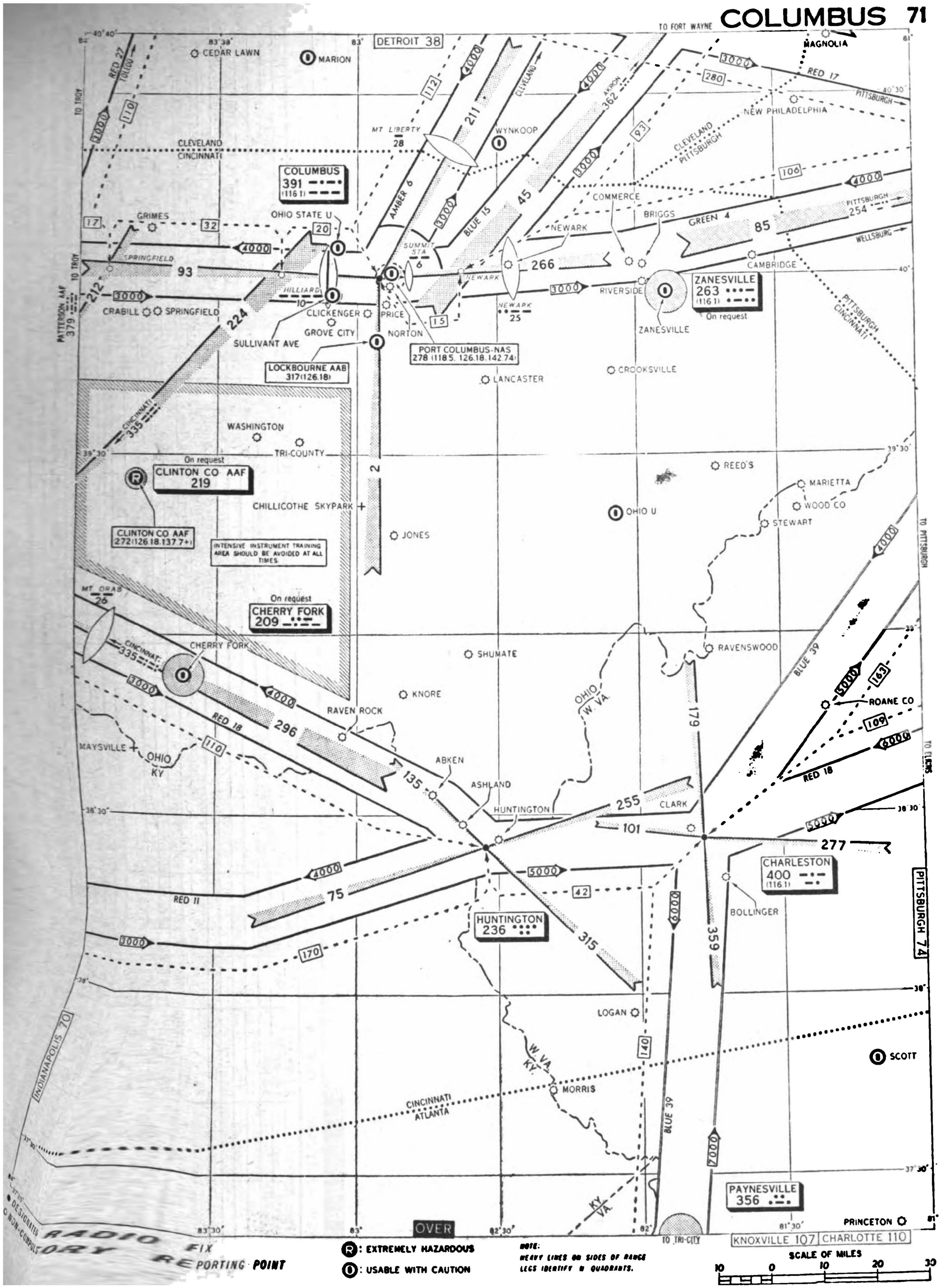
○ NON-COMPULSORY REPORTING POINT

Ⓡ EXTREMELY HAZARDOUS

Ⓤ USABLE WITH CAUTION

NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.

COLUMBUS 71


TO FORT WAYNE
MAGNOLIA
DETROIT 38
CEDAR LAWN
MARION
RED 27
TOLEDO
TO TROY
CLEVELAND
CINCINNATI
MT LIBERTY
28
WYNKOOP
AMBER 6
BLUE 15
45
CLEVELAND
AKRON
362
RED 17
PITTSBURGH
NEW PHILADELPHIA
CLEVELAND
PITTSBURGH
COLUMBUS
391
(116.1)
OHIO STATE U
GRIMES
SPRINGFIELD
93
HILLIARD
CRABILL
SPRINGFIELD
212
224
CLICKENGER
GROVE CITY
SULLIVANT AVE
PRICE
NORTON
SUMMIT STA
6
NEWARK
266
NEWARK
25
COMMERCE
BRIGGS
GREEN 4
85
PITTSBURGH
254
WELLSBURG
CAMBRIDGE
RIVERSIDE
ZANESVILLE
263
(116.1)
On request
ZANESVILLE
PITTSBURGH
CINCINNATI
PATTERSON AAF
379
PORT COLUMBUS-NAS
278 (118.5, 126.18, 142.74)
LOCKBOURNE AAB
317(126.18)
LANCASTER
CROOKSVILLE
WASHINGTON
TRI-COUNTY
On request
CLINTON CO AAF
219
CLINTON CO AAF
272(126.18.137.7+)
CHILLICOTHE SKYPARK
INTENSIVE INSTRUMENT TRAINING AREA SHOULD BE AVOIDED AT ALL TIMES
JONES
REED'S
MARIETTA
WOOD CO
STEWART
OHIO U
MT ORAB
26
On request
CHERRY FORK
209
CHERRY FORK
SHUMATE
RAVENSWOOD
KNORE
RAVEN ROCK
OHIO
W. VA.
BLUE 39
MAYSVILLE
OHIO
KY
RED 18
296
ABKEN
ASHLAND
HUNTINGTON
255
CLARK
101
277
ROANE CO
RED 18
CHARLESTON
400
(116.1)
BOLLINGER
HUNTINGTON
236
315
359
RED 11
75
LOGAN
W VA
KY
MORRIS
CINCINNATI
ATLANTA
SCOTT
INDIANAPOLIS 70
BLUE 39
PAYNESVILLE
356
PRINCETON
10 TRI-CITY
KNOXVILLE 107
CHARLOTTE 110
PITTSBURGH 74
TO PITTSBURGH
TO ELKINS
SCALE OF MILES
10 0 10 20 30
OVER
DESIGNATED
NON-COMPULS
RADIO FIX
ORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS.

RADIO

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHERRY FORK (Int.)	209 (UY)	MHT	(4)
CLINTON CO. (Wilmington)	272 (126.18) 137.7 (116.1)	CA(ILS)	(3); 126.18,137.7,116.1 (GCA)
Clinton County (Wilmington) (Army)	219	K	0.2 mi. end Rnwy 22,(830-1630 Mon.-Fri.)
COLUMBUS (Port Columbus NAS)	391 (CO)(116.1)	SBRAZ-VDT,86°, 1.9	(4); 116.1
HILLIARD FM	(- - - -)	FM, 273°, 9.8	Columbus
LOCKBOURNE AAB(Columbus)	317 (126.18)	CA (ILS),309°,31.2	(3), 126.18
MT. LIBERTY FM	(-)	FM, 31°, 27.8	Columbus
MT. ORAB FM	(- -)	FM, 116°, 25.5	Cincinnati
NEWARK FM	(. . - -)	FM, 145°, 10.8	Columbus
PORT COLUMBUS NAS (Columbus)	278 (118.5) (126.18,142.74)	AC	(4), 131.9, 118.5, 126.18, 142.74
SUMMIT STATION LFM	(- -)	LFM, 86°, 5.6	Columbus
ZANESVILLE	263 (VL)(116.1)	MHVT	(4), 116.1
WEST VIRGINIA			
CHARLESTON	400 (KN)(116.1)	SBMRAZ-VDT	(4), 116.1
HUNTINGTON	236 (HI)	BMRLZ-DT, 75°, 2.4	(4)
PAYNESVILLE	356 (IR)	H	Operated by PCA (6-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LOCKBOURNE AAB, OHIO	109.9		3° Mag.	IM (.16)	MM ····· (.85)	OM -- (4.29)	
					MMK	OMK	
CLINTON CO. AAF, OHIO	108.3	332.6	320° Mag.	IM (.05)	MM	OM	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

KENTUCKY

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abken (Russell)	2.7 NW,riv N	555	26 S3	80 oct. Data not verified.
Ashland	1 E, RR SE	535	29 S4	80 oct.
Maysville	3.5 NW		26 S2	Fuel. Data not verified.
OHIO				
Briggs (Zanesville)	6.4 NNE,RR W	780	18 S2	80 oct. Poles E.
Cambridge	2 N, RR W	800	27 L3 S2	73 oct.
Cedar Lawn (Kenton)	2.3 S, RR E	975	18 S2	80 oct. Poles E.
* Cherry Fork Int,4,CC-WA	0.5 NNW	939	39 R1 L3	
Chillicothe Skypark	1.8 N,RR E	640	30 S4	80,91 oct. Data not verified.
Clickenger (Columbus)	6.2 SSE,RR E	748	26 S2	80 oct. Poles surround fld.
(A) Clinton County AAF (Wilmington)(A)	2 SE,hwy NE	1062	60h R3 L5 S1	73, 91, 100 oct. JP-1. No rng.
Commerce (Zanesville)	6.5 N,RR,riv E	800	28 S2	73, 80 oct.
Crabill (Springfield)	2.5 SE,RR E	1040	29 S6	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii)(NC)-Not charted.

OHIO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Crooksville	2.3 S,RR NW	760	22 S2	No fuel. Poles N
Grimes (Urbana)	1.5 N,RR W	1055	35 L4 S6	80 oct. Fld lgts prior req.
Grove City	1 S, RR W	860	21 S6	73,80 oct. No sto. Poles W.
Jones (Chillocothe)	7.2 SE,RR SW	720	20 S2	Ltd 80 oct.
Knore (Minford)	2 SE,RR W	670	20 S6	80 oct. No sto. Pwr line S.
Lancaster	2.5 E,RR N,SW	830	25 S4	80 oct. Poles E.
(A) Lockbourne AAB (Columbus)(A)	11.5 SSE,RR W	738	55h R3 L5 S5	73, 100 oct. JP-1. No range.
Magnolia	0.5 NW,RR SE	970	22 S1	80 oct. Trees W.
Marietta	1.8 ESE,riv S	615	27 S2	80 oct.
Marion	2.5 WNW,RR S	915	28 S2	80 oct.
Newark,2, CO-PG	3.5 SW,RR N	880	25 L3 S2	73 oct. 200' stacks S.
New Philadelphia	2.5 SE,RR SW	885	36 S6	80 oct. Poles N,E,W
Norton (Columbus)	6.5 E,RR N	800	22 S6	80, 91 oct. Pole line N
Ohio State University (Columbus)	8 NNW,riv E	900	22h S2	80, 91 oct.
Ohio Univ. (Athens)	1.5 E,RR S	640	40 S6	80 oct.
(N) Port Columbus - NAS (Columbus)	7 E, RR S	815	50h R2 L5 S6	80-100 oct. Poles NW.
Port Core (Rushsylvania) (NC)	1.6 SSW,RR NW	1275	14	Poles NNE; trees SSW.
Price (Columbus)	6 SE	760	22 S6	80 oct. Poles S, SE.
Raven Rock (Portsmouth)	3.5 WSW,riv S	538	24 L3 S6	80,91 oct. Lgtg fac not verified.
Reed's (Watertown)	4.9 W,hwy E,S	820	13 S1	80 oct. Pole line NE.
Riverside (Zanesville)	3.4 NNE,RR W	700	40 S4	80 oct. Hill, trees NNE,SSW.
Scioto Trail State Forest (Chillicothe)(NC)	8 SSE,RR NE	640	24	
Shumate (Jackson)	8 SSE,RR NE	720	20 S1	80 oct.
Springfield	4.2 ESE,RR N	1050	27 L4 S4	80 oct. No sto. Fld lgts prior req.
Sullivant Ave.(Columbus)	6 WSW,RR NW	860	31 S6	80,91 oct. Pole line S.
Tri-Co (New Holland)	3 ESE,RR N	850	21 S1	80 oct.
Twin Cities (Gallipolis)	1.8 ENE,riv SE	563	30	Trees E. (NC)
Washington (Wash.C.H.)	4.5 ENE,RR S	910	22 S1	80 oct. Pole line S.
Wolfords (Amanda)(NC)	0.8 E, RR NW	960	13	
Woodsfield (NC)	1 W,hwy NE	1220	19	
(P) Wynkoop (Mt.Vernon)	1.4 SSW,RR NW	1050	34 S1	80,91 oct. Pole line E. RR E.
Zaleski St. Forest Svc.	1 SSW,RR NW	705	22	(NC)
(P) Zanesville	6.2 E,hwys N,S	902	50h R1 L5 S1	80 oct. prior req.
(P) Huntington(Chesapeake)	2 WSW, riv S	560	29h R1 S6	73, 80 oct
WEST VIRGINIA				
Bollinger(Charleston)	4.5 SW,riv N	900	21 S4	80 oct.
Clark (Winfield)	5 N St.Albans	600	27 S6	73 oct. No sto. River E.
Morris (Williamson)	5 NNW,RR E	600	12 S1	80 oct. Pole line S.
Princeton	1.7 SW,hwy E	2450	20 S4	80 oct.
Ravenswood	0.6 NNW,RR W	600	23 S1	Ltd 80 oct. Obsts sur fld.
Roane Co. (Spencer)	1 SE,hwy NE	954	17 S1	80 oct.
(P) Scott (Mt.Hope)(Beckley)	2.6 N, RR E	2440	33 L1 S6	80, 91 oct. Trees N.
Stewart (Parkersburg)	2.3 NNW,riv W	602	33 S6	80 oct. Pole line SE.
(P) Wood Co. (Parkersburg)	7 NE, hwy E	835	45h L5 S6	80, 91, 100 oct. All lgts prior req.
Logan	7.2 NNW,riv E	630	15h S1	80 oct Hill S,N.
⊙Kanawha Ely. School (Charleston)	Center of City	586	50 S6	80 oct. Boat,ramp,winch.

PITTSBURGH

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PENNSYLVANIA			
ALLEGHENY CO. ARPT (Pittsburgh)	278 (126.18) (118.7)	AC	(4);140.1,131.1,126.18
ALTOONA (Altoona-Blair Co.)	338(RF) (116.1)	SBMRAZ-VDT:203° 1.3	(4);116.1
CECIL FM	(- - -)	FM, 265°, 10.3	Pittsburgh
GREATER PITTSBURGH AIRPORT PITTSBURGH	396 (126.18)	CA	(3);126.18
HOOKSTOWN FM	(- - - -)	FM,308°, 32	Pittsburgh
MT. PLEASANT FM	(- -)	FM,124°, 24.7	Pittsburgh
NEW ALEXANDRIA FM	(-)	FM, 85°, 30	Pittsburgh
PITTSBURGH	254(PT) (116.1)	SBRAZ-VDT :85°, 2.2	(4);116.1
SUMMERHILL FM	(- - - -)	FM, 281°, 22	Altoona
→ CECIL	219(C)	FMK,265°,10.3	Pittsburgh
VIRGINIA			
FRONT ROYAL	362 (FZ)	SBMRAZ-DT	(4)
GORDONSVILLE (Int)	388 (GJ)	SBMRAZ-DT;135°,2.6	(4)
LYNCHBURG (Preston Glenn)	206 (LB)	SBRAZ-DT;165°,2.1	(4)
WEST VIRGINIA			
ELKINS	281(EK)(116.1)	SBMRAZ-VDT: 174°,2	(4);116.1
MARTINSBURG	209(MR) (116.1)	BMRLZ-VDT;35°,2.9	(4); 116.1
MORGANTOWN	269(MG)(116.1)	BMRLZ-VDT;173°,5.6	(4):116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
				IM	MM	OM
PITTSBURGH, PA.			95° Mag.		MMK 201---·(.80)	OMK

S-Simultaneous **Range and Voice; W-Without Voice; Z-VHF Station Location** Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,**4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column** Indicate VHF **on** which Voice is Available

AIRPORTS

MARYLAND

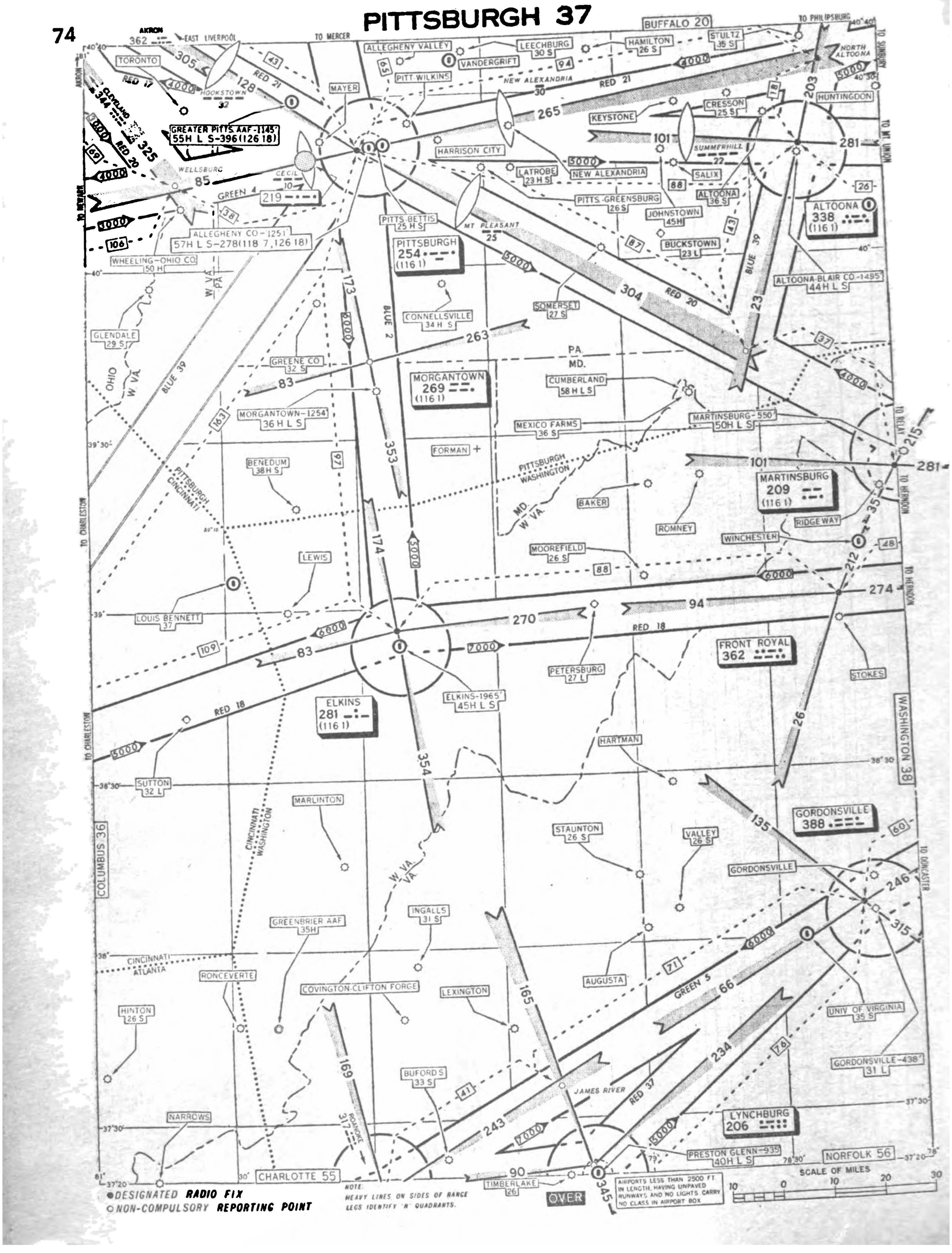
AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Cumberland	2.5 S;riv N,S	780	58h L5 S1	80 oct. Mtns SW.
Mexico Farms(Cumberland)	3 S;RR E	630	36 S2	80 oct.Mtns E.
OHIO				
Scott (Tiltonsville)(NC)	1.5 SSW;riv E	650	25	
Toronto	1.5 NW;riv E	1050	22	
PENNSYLVANIA				
Allegheny Val'y(Tarentum)	3.2 W;RR W	1125	24 S4	80 oct.
Altoona(Duncansville)	1 SW;RR E	1050	36 S4	73 oct.
Altoona-Blair Co.24A-CO-PG	15 SSE	1495	44h R1 L4 S2	80,91 oct.
* Buckstown Int,12B,WA-CV	1 E;hwy S	2480	23 L3	
Connellsville	4 SSW;hwy E	1250	34h S2	80 oct.
Cresson	1 NE;RR W	2240	25 S2	80 oct.Pole line S.
(A) Greater Pittsburgh (Pittsburgh)(A)	15 WNW;riv N	1145	55h R1 L5 S4	91,100 oct.JP-1
Green County(Waynesburg)	2.7 E;RR NW	1100	32 S6	80 oct.
Hamilton (Indiana)	2.5 E;hwy S	1440	26 S6	80 oct.Pole line S.
Harrison City	1.1 NW;hwy S	1230	17	Poles NW.
Huntingdon	1 S;riv NE	620	20 S4	80 oct.Pole line W.
(P) Johnstown	4.7 E;hwy N	2282	45h	
Keystone (Ebensburg)	3 SW;RR NW	2100	23 S4	87 oct.Obst sur fld.
Latrobe	2.8 SSW;hwy N	1144	23h S4	80 oct.
Leechburg	1.6 ESE;hwy W	960	30 S6	73 oct.Pole line N,NE.
Mayer (Pittsburgh)	10 WSW;RR S	770	16 S4	80 oct. Pole line S.
→ ‡ Highland (Aspinwall)(NC)	0.7 S	721	52 S3	80 oct. Boat; ramp.
→ Ⓘ Highland(Pittsburgh)(NC)	5 NNE	721	66 S6	80 oct.Ramp;dock;crash boat

h-hard surfaced **runways.** R-radio facilities. L-lighting facilities. S-servicing.(See **page** XIII)(NC)-Not **charted.,**

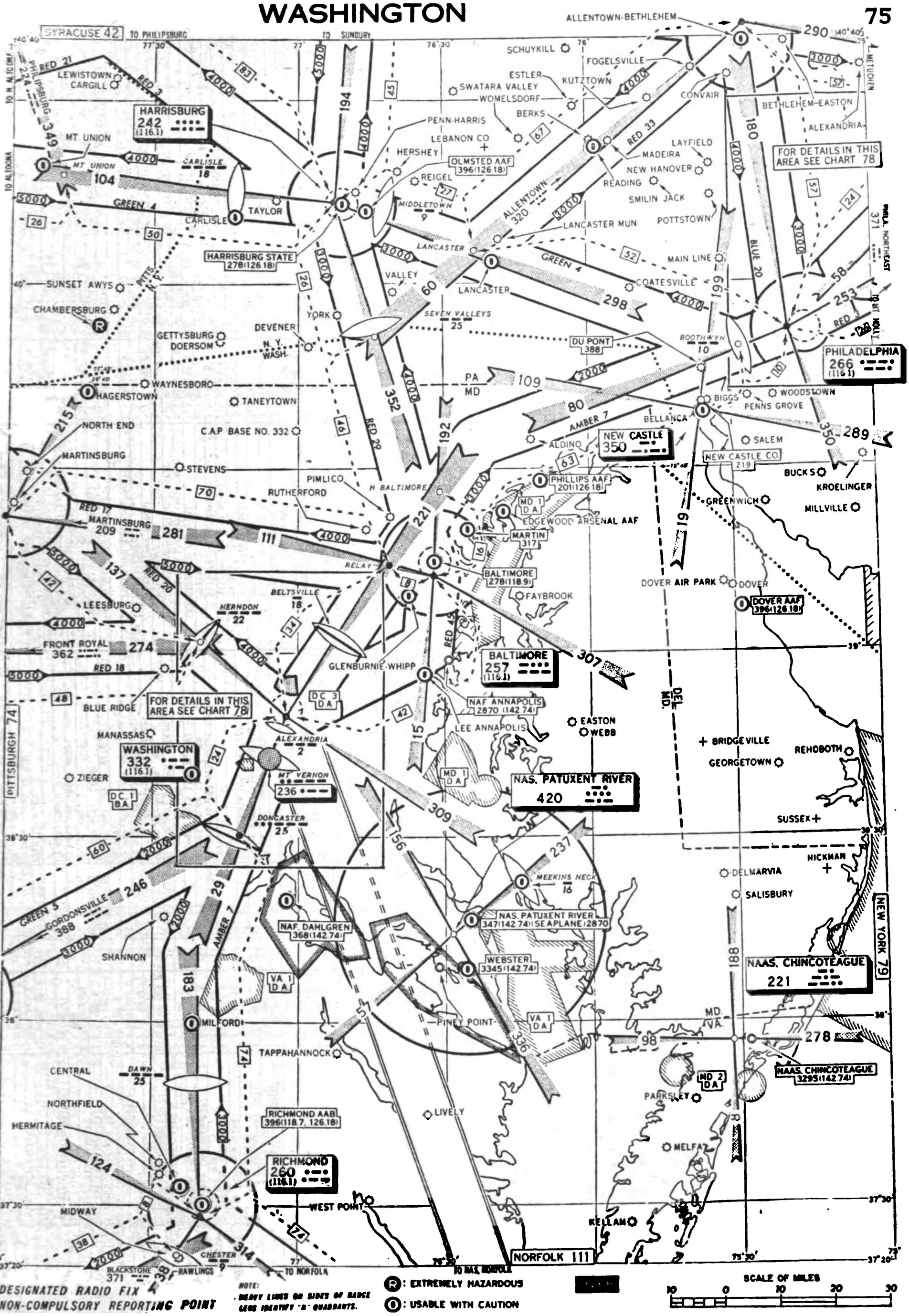
PENNSYLVANIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
→ New Alexandria	1.5 ENE;hwy N	1200	18 S4	80 oct. Pole line N.
→ PITTSBURGH-ALLEGHENY CO. (Pittsburgh)	5.3 S;RR NW	1251	57h R2 L6 S6	80-100 oct.No ctc lgts.Rdo rec req.
Pittsburgh-Bettis (Pittsburgh)	5 SSE	1250	25h S6	80,91 oct.
Pittsburgh-Greensburg (Greensburg)	2.3 SE;hwy N	1280	26 L3 S6	80 oct.Twr W.No bndry lgts.
Pitt-Wilkins(Pitcairn)	1 NNW	1200	17 S2	80 oct.
Salix	0.6 S;RR NW	2200	24 S4	80 oct.
Somerset	2NNE;RR SE	2200	27 S4	80 oct. Pole line W.
Stultz (Altoona)	10.7 NNE;RR N	970	35 S6	73,80oct.Pole line N,E,NE.
Vandergrift	2 WNW;RR E	1000	21 S2	73 oct. Pole line NW.
→ Ⓘ Buck's (Pittsburgh)(NC)	at riv inters.	715	70 S6	87 oct.Boat;beach;ramp;winch.
→ ‡ Coraopolis (NC)	0.5 N	675	50 S1	80 oct. Boat; ramp.
→ ‡ Dravosburg (Pittsburgh)	5 SE;jct of rivs	718	50 S2	80-100 oct.Ramp;float;boat.(NC)
→ ‡ McKeesport (NC)	1.3 NW	718	40 S1	80 oct. Float; ramp
VIRGINIA				
Augusta(Waynesboro)	6 WSW;riv SE	1420	24 S4	80 oct.Bad pole line SE.
Buford's (Montvale)	0.5 S;hwy N	1000	33 S6	80 oct. 100' hill E.
Covington-Clifton Forge	6.5 E;hwy S	1115	24 S4	80 oct.
Gordonsville	2.9 NE;RR S,SE	475	18 S6	80 oct. Trees NE,SW.
* " Int,51,NA-WA	5 SSE	438	31 R1 L3	Pole line SW.
Hartman(Harrisonburg)	1 NW	1350	22 S4	80 oct.
Ingalls (Hot Springs)	3 S;hwy W	3780	31 S2	80 oct. Closed winters.
Lexington	2.7 SW;hwy S	1200	17 S1	73 oct. Pole line NE,SW.
Narrows	1 E;RR S	1550	20 S2	Ltd 80 oct. Trees W.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
Staunton	4.4 NE;RR NW	1300	26 S6	80,91 oct.Pole line NNE.
Stokes (Front Royal)	2.5 W;riv E	735	19 S2	80 oct. Pole line S,E.
Timberlake (Lynchburg)	9.5 SW;RR N	950	26	
University of Virginia (Charlottesville)	5 ESE;riv E	300	35 S6	80 oct. Trees ESE.
Valley (Waynesboro)	1.7 NNE;RR E	1300	26 S2	80 oct. Pole line ENE,SSW
Winchester	3 SSE;hwy E,S	700	22 S6	80 oct.
→ Orange County (Orange)	4 E;hwy S		20	Data unverified.
WEST VIRGINIA				
Baker Airpark(Burlington)	0.5 NNE;hwy S	740	19 S4	80 oct.
(P) Benedum (Clarksburg)	6 E;hwy S	1170	38h S6	80,91 oct.
(P) ELKINS	2.6 S;RR W	1965	45h R1 L5 S4	80,91 oct. No sto.
Forman (Terra Alta)	1 N;hwy W	2750	18 S4	80 oct.No sto.Data unver.
Glendale	0.5 WSW;bet RR & river	640	29 S6	80 oct.Trees N,S;pole line S.
(A) Greenbrier AAF (White Sulphur Springs)(A)	2 SW	1795	35h	
Hinton	4.8 WSW;RR E	2600	26 S4	80 oct. Pole line NNW.
Hinton-Alderson(Pence Springs)(NC)	1 E;riv,RR S	1520	26	Hill W,E.
Lewis (Buckhannon)	2.4 W;hwy N	1435	18 S4	80 oct.No sto.Hills sur fld.
Louis Bennett(Weston)	3.2 N;RR E	996	37	Hill S;pole line WNW
Marlinton	1.5 NNE;RR SE	2475	21 S2	80 oct. Hill WNW
(P) Martinsburg	4 S;hwy W	550	50h R1 L5 S6	80,91 oct.
Moorefield	0.8 NE;RR W	980	26 S4	80 oct. Trees WNW.
(P) Morgantown	2.2 ENE;hwy NW	1254	36h R1 L3 S6	80 oct.
* Petersburg Int,29,CC-WA	1.2 WSW;riv N	945	27 L2 S4	80 oct. No sto.
Ridgeway (Bunker Hill)	2.3 SSW;RR E	600	20 S6	80 oct.No sto.Pole line SSW.
Romney	2.1 NNE;riv W	750	16 S2	80 oct.Mts WNW,ESE,SSE.
Ronceverte	2 N;hwy SE	2175	18 S2	80 oct.
* Sutton Int, 21, CC-WA	3.6 ENE;RR W	1264	32 L3	
(P) Wheeling Ohio Co.	7.5 NNE;riv W	1190	50h L5	All lgts prior req.
‡ Wheeling (NC)	Center of City	630	50 S1	87 oct. Boat. Bridge S.
→ ‡Oakmont	Adj NW.	725	52 S1	80 oct. Float.

PITTSBURGH 37



WASHINGTON


SYRACUSE 42
TO PHILIPSBURG
TO SUNBURY
TO ALTOONA
TO ALTOONA
PHILIPSBURG 224
RED 21
RED 3
LEWISTOWN
CARGILL
HARRISBURG
242
(116.1)
MT. UNION
MT. UNION
104
CARLISLE
18
TAYLOR
CARLISLE
GREEN 4
HARRISBURG STATE
278(126.18)
SUNSET AWYS
PITTS. N.Y.
CHAMBERSBURG
GETTYSBURG
DOERSOM
DEVENER
N.Y. WASH.
YORK
WAYNESBORO
HAGERSTOWN
TANEYTOWN
NORTH END
C.A.P. BASE NO. 332
MARTINSBURG
STEVENS
PIMLICO
RUTHERFORD
N. BALTIMORE
RED 17
MARTINSBURG
209
281
111
RELAY
RED 20
LEESBURG
HERNDON
22
BELTSVILLE
18
FRONT ROYAL
362
274
RED 18
GLENBURNIE-WHIPP
BLUE RIDGE
FOR DETAILS IN THIS AREA SEE CHART 78
MANASSAS
WASHINGTON
332
(116.1)
ZIEGER
ALEXANDRIA
2
MT. VERNON
236
DONCASTER
25
PITTSBURGH 74
GORDONSVILLE
388
GREEN 5
246
SHANNON
NAF. DAHLGREN
368(142.74)
VA 1 DA
MILFORD
TAPPAHANNOCK
CENTRAL
DAWN
25
NORTHFIELD
HERMITAGE
RICHMOND AAB
396(118.7, 126.18)
RICHMOND
260
(116.1)
MIDWAY
BLACKSTONE
371
RAWLINGS
CHESTER
9
WEST POINT
TO NORFOLK
NORFOLK 111
TO NAS NORFOLK
ALLENTOWN-BETHLEHEM
290
SCHUYKILL
FOGELSVILLE
ESTLER
KUTZTOWN
SWATARA VALLEY
WOMELSDORF
BERKS
CONVAIR
BETHLEHEM-EASTON
METUCHEN
ALEXANDRIA
PENN-HARRIS
LEBANON CO
HERSHEY
OLMSTED AAF
396(126.18)
REIGEL
MIDDLETOWN
9
LAYFIELD
MADEIRA
NEW HANOVER
READING
SMILIN JACK
POTTSTOWN
FOR DETAILS IN THIS AREA SEE CHART 78
ALLENTOWN
320
LANCASTER MUN
LANCASTER
VALLEY
LANCASTER
SEVEN VALLEYS
25
MAIN LINE
COATESVILLE
298
PHILA. NORTHEAST
371
BLUE 20
DU PONT
388
BOOTHWYN
10
PHILADELPHIA
266
(116.1)
TO MT HOLLY
PA
MD
109
WOODSTOWN
BIGGS
PENNS GROVE
BELLANCA
NEW CASTLE
350
AMBER 7
ALDINO
SALEM
NEW CASTLE CO.
219
PHILLIPS AAF
201(126.18)
BUCKS
KROELINGER
GREENWICH
MILLVILLE
MD 1 DA
EDGEWOOD ARSENAL AAF
MARTIN
317
BALTIMORE
278(118.9)
FAYBROOK
DOVER AIR PARK
DOVER
DOVER AAF
396(126.18)
BALTIMORE
257
(116.1)
NAF ANNAPOLIS
287.0 (142.74)
LEE ANNAPOLIS
EASTON
WEBB
BRIDGEVILLE
GEORGETOWN
REHOBOTH
SUSSEX
DC 3 DA
DC 1 BA
MD 1 DA
NAS. PATUXENT RIVER
420
HICKMAN
DELMARVIA
SALISBURY
MEEKINS NECK
16
NAS. PATUXENT RIVER
347(142.74)(SEAPLANE)2870
WEBSTER
334.5(142.74)
NAAS. CHINCOTEAGUE
221
NEW YORK 79
PINEY POINT
VA 1 DA
MD.
VA.
278
NAAS. CHINCOTEAGUE
329.5(142.74)
MD 2 DA
PARKSLEY
LIVELY
MELFA
KELLAM
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

RADIO

	LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DELAWARE	DOVER AAP	396 (126.18)	CA	(3); 126.18 (7-19)
	DUPONT ARPT (Wilmington)	388	CI	3105,3117.5,5582.5(8-20 daily except Sun.)
	NEW CASTLE	350 (NC)	SBRAZ	
	New Castle Co.Arpt.	219	CI; 19°, 2.8	(4)
DIST. OF C.	WASHINGTON	332 (WA)(126.1)	SBRAZ-VDTX	(4); 116.1
MARYLAND	ANNAPOLIS	2870 (142.74)	CN	3105,2870,6420; 142.74 (7-17)
	BALTIMORE	257 (BO)(116.1)	BMRLZ-VDT	(4); 116.1
	Baltimore Mun. Arpt.	278 (118.9)	C; 12°, 2.3	(4); 131.9,126.18,118.9
	BELTSVILLE FM	(-)	FM; 41°, 17.6	Washington, D. C.
	DONCASTER FM	(. . - - -)	FM; 209°, 24.7	Washington, D. C.
	MARTIN ARPT (Baltimore)	317	CI	(4)(8-sunset Mon - Fri.)
	MEEKINS NECK FM (Navy)	(-)	FM; 57°, 16	Patuxent River
	PATUXENT RIVER (Navy)	420 (NHK)	BMRLZ	(3); 142.74 (GCA)
	Patuxent River NAS	347 (142.74)	CN; 57°, 4	(3); 142.74
	Patuxent Riv.NAS(Seaplane)	2870	CN	2870, 3105
	PHILLIPS FIELD (Aberdeen)	201 (126.18)	CA	(3);126.18 (8-18, Mon thru Fri.)
	WEBSTER (Priest Point)	3345 (142.74)	CN	3105; 142.74 (8-1630)
PENN.	BOOTHWYN FM	(- - -)	FM, 260°, 9.5	Philadelphia
	CARLISLE FM	(- - - -)	FM, 284°, 18	Harrisburg
	HARRISBURG	242 (HX)(116.1)	SBRAZ-VDT	(4); 116.1
	Harrisburg State Arpt.	278 (126.18)	C; 118°, 1.1	(4); 116.1,131.9,126.18
	MIDDLETOWN FM	(- -)	FM, 118°, 9	Harrisburg
	OLMSTED FIELD (Middletown)	396 (126.18)	CA	(4); 126.18
	PHILADELPHIA(Southwest Arpt)	266 (PG)(116.1)	SBMRAZ-VDT;97°, 3	(4); 116.1
	SEVEN VALLEYS FM	(- - -)	FM, 172°, 25	Harrisburg
VIRGINIA	ALEXANDRIA LFM	(- - -)	LFM, 209°, 2.4	Washington, D. C.
	CHESTER FM	(- -)	FM, 218°, 9.15	Richmond
	CHINCOTEAGUE (Navy)	221 (NKZ)	MRLZ	3105,4495; 142.74
	Chincoteague NAAS	3295 (142.74)	CN; 98°, 4.5	(3); 142.74
	DAHLGREN NAF PROV.GROUNDS	368 (142.74)	CN	(3); 142.74 (8-16 except Sun.)
	DAWN FM	(- - - -)	FM, 3°, 25.1	Richmond
	HERNDON FM	(- - - -)	FM, 317°, 21.8	Washington, D. C.
	MOUNT VERNON FM	(. . - - -)	FM, 209°, 8.2	Washington, D. C.
	RICHMOND	260 (RW)(116.1)	SBRAZ-VDT	(4); 116.1
	Richmond AAB	396 (126.18)	AC (ILS);20°, 1.9	(4); 131.9,118.7,126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
RICHMOND AAB, VIRGINIA	109.9		63° Mag.	IM (.17)	MM ·····(.90)	OM --(4.50	
					MMK		OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

	AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DELAWARE	Bellanca (New Castle)	1.5 W	30	25h L1 S5	80,91 oct. Poles N.
	Biggs (New Castle)	1 NW;riv S,SE	60	21 S2	80 oct.
	Bridgeville	1.5 S	20	27 S6	80 oct. Data not verified.
	Dover	1.4 ENE;crk NW	34	19 S2	80 oct. Pole line N.
	" Airpark	2.2 N; rd W	37	25 S2	80 oct.
(A)	" AAP (A)	4 SE; hwy E	28	70h R1	INACTIVE.
	duPont (Seaford) (NC)	0.8 WSW; RR NE	25	21	Poles NE. PRIVATE. RESTRICTED.
	" (Wilmington)	3 WNW; RR E	185	29 R1 L4 S4	80 oct. No sto.
(P)	Georgetown	1.5 E; RR NW	51	50h	
(P)	New Castle County (Wilmington)	4.8 SW;hwy SE	75	70h R2	
	Rehoboth Beach Aircrafters	2.5 W; hwy N	10	35 S6	80,91 oct. Obsts sur fld.
	Skycraft (Wilmington) (NC)	3 NE; rd N	250	15	Poles N,W,S; trees NW,SE.
	Sussex (Frankford)	1 N		24 S4	80 oct. Data not verified.
MARYLAND	Aldino (Churchville)	2.2 NE;RR SE	400	20 S6	80 oct.
	Andelot (Worton)(NC)	4 WNW; bay W	25	20	Trees N.
	BALTIMORE MUN.	6 SE; RR NE	14	46h R2 L5 S6	80,91 oct; 100 oct prior req.
	C.A.P Base (Westminster)	2.6 N; hwy E	780	20 S4	80 oct. Pole line E, NE.
	Delmarvia (Salisbury)	2.8 NE; hwy W	45	21 S6	80 oct. Pole line N,E,NE.
	Easton	2.2 N; RR E	66	40h S4	80 oct. No sto.
(A)	Edgewood Arsenal (A)	1.3 S	18	50h L5 S4	91,100 oct. No bch. CLOSED.
	Faybrook (Rock Hall)	1.5 NNW; bay W	20	14 S4	80 oct. Trees WNW, NNE.
	Glenburnie-Whipp	1 E; hwy W	58	26 S6	80 oct. Seaplane Anchorage.
	Hagerstown	4.2 N; RR W	700	39h L3 S4	80 oct. Fld lgts prior req.
	Lee Annapolis (Annapolis)	4.8 WSW;hwy E	30	28 S1	73 oct. Pole line ESE.
	Martin (Baltimore)	10 E; RR N	18	70h R1	PRIVATE.
(N)	Patuxent River NAS (N)	2.9 NE Jarboes	38	97h R2 L6 S4	91,100 oct. JP-1. NATS.
(A)	Phillips (Aberdeen)(A)	3.2 S; RR W	57	50h R1 L5 S1	91,100 oct. CLOSED.
	Pimlico (Baltimore)	6 NW; hwy SW	400	32 S6	80, 91 oct.
(N)	Piney Point (N)	0.8 WNW	10	14h S1	73 oct. Use rnwys only.
	Rutherford (Baltimore)	7 W; RR W	500	23 S6	80 oct. Twr N
	Salisbury	5.3 ESE	52	50h	
	Shady Side (NC)	1.8 SSW; RR W	10	15	Pole line SSW.
	Stevens (Frederick)	5.8 N; hwy E	440	28 S6	80 oct. Trees SW,S,W.
	Taneytown	2.9 WNW;hwy S	500	20 S4	80 oct. Pole line S,SW,W.
	Webb (Easton)	2.5 E	50	26 S6	80 oct. No sto. Pole line S, SE.
(M)	Webster (Priest Point)(M)	1.5 W Ingoes	21	50h R1 S1	Ltd 100 oct. JP-1 req.
N. J.	Alexandria (Pittstown)	2 WNW;lake NE	340	18 S4	80 oct. No sto. Trees WSW,ENE.
	Buck's (Bridgeton)	3.7 NNE; RR S	100	18 S4	80 oct. Pole line S, W.

L-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (see page xiii) (NC)-Not charted.

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Greenwich	2.5 W; riv SW	30	21 S6	73,80 oct. Trees N.
Kroelinger (Vineland)	2.5 NNW;RR E	100	19 S6	80 oct. Pole line S, E.
(P) Millville	3.3 SW;lake N	68	50h	
Penns Grove	3 SE; riv W	10	22 S2	73 oct. Pole line W, SSW.
Salem	2 ESE; rd S	15	22 S6	80 oct.
Woodstown (Auburn)	1.5 SSE; RR E	100	20 S1	80 oct. Pole line N, NE.
PENN. ALLENTOWN-BETHLEHEM	4.6 NNE; RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only.Fld lgts prior req.
Berks (Reading)	4.5 NW; hwy SW	330	23 S4	80,91 oct. Hill NW.
Bethlehem-Easton (Easton)	4.5 SW; riv S	360	23 S6	80,91 oct.No sto.Pole line sur fld.
Cargill (Granville)	1.5 SW; RR SE	490	23 S2	73 oct. Obsts sur fld.
Carlisle	1.8 WSW; RR N	480	23 S2	73 oct.
Centerville (Carlisle)(NC)	11.3 SW;RR N	660	23	Trees E, NE.
Chambersburg	1.2 SSE;RR SW	650	22 S6	80 oct. E/W strip rough.
Coatesville	1.6 W; RR S	623	26 L1 S4	80 oct. Obsts sur fld.
Convair (Allentown)	3 SSW	399	40h	
Devener (Hanover)	2 NNE; hwy W	590	20 S6	73,80 oct.
Doersom (Gettysburg)	2.4 NW; RR N	590	19 S6	73 oct. Pwr line NE.
Estler (Mohrsville)	3.5 W; pond W	390	22 S6	Ltd 80 oct. Trees W.
Fogelsville	0.7 E; RR SE	460	22 S4	80 oct. No sto. Pole line SW.
Gettysburg	2.8 NNW;RR SW	600	24 S3	80 oct. No sto.
HARRISBURG STATE	3.5 S; RR N	344	40h R2 L5 S6	80,91,100 oct.
Hershey Airpark	1.1 NNW;RR S	415	21 S1	80 oct.
Kutztown	1.5 S; RR SE	400	25 S4	73 oct.
Lancaster	1.5 NNW;RR SW	320	26 S6	73,80 oct. Pwr line W.
" 35,CO-PG	5.5 N; hwy W	385	27h L4 S4	80 oct. Poles S, WSW.
Layfield (New Hanover)	2 NE; hwy W	320	17 S6	80 oct. Trees NE.
Lebanon County (Myerstown)	2 W; dam N		20 S4	80 oct. Data not verified.
Lewistown	4 SW; riv SE	560	19 S6	80 oct. Wooded hill NW.
Madeira (Reading)	3.2 N; RR W	360	20 L S6	80 oct. Port flood lgts.
Mount Union	4 S; hwy E	560	30 S4	80 oct.
New Hanover	0.5 W; hwy SE	320	20 L S4	80 oct. Port. flood lgts.
(A) Olmsted (Middletown)(A)	1 W;RR N;riv S	300	50h R1 L5 S6	62-100 oct.JP-1. Poles N, NE.
Penn-Harris (Harrisburg)	4 ESE; RR N	400	25 L S6	80 oct. Floodlgts.
Philadelphia Main Line (Paoli)	2.8 WNW;hwy S	310	21 S4	No fuel. Pole line ESE.
Pottstown	4.5 E; hwy N	311	30 S6	80 oct. Bldg NW.
READING	3 NW; riv E	342	52h L1 S6	B-2 lgts prior req.
Reigel (Campbelltown)	1 N; hwy N	475	20 S4	80 oct.
Schuylkill (Pottsville)	8.3 ESE;lke SE	510	29 S6	80 oct. Hills SW, E, NE.
Smilin' Jack (Douglassville)	1.3 NW; RR S	200	24 S4	80 oct.
Sunset Airways (Chambersburg)	3.5 NNE; rd E,S	650	25 S1	80 oct. Pole line E, NNW.
Swatara Valley (Pine Grove)	4 WSW; RR N	480	21 S4	80 oct.
Taylor (New Kingston)	0.5 SE; hwy N	440	28 S6	80 oct. Pole line N.
Valley Airpark (York)	3 ENE; RR N	420	21 S4	80 oct. Poles SSE,NNW.
Waynesboro	3 SE; hwy N	700	20h S6	80 oct.
Womelsdorf	3 NW; hwy E	540	13 S1	73 oct.
York	8.3 WSW;RR E	500	19 L S6	73,80 oct. Floodlgts. Pole N.
VIRGINIA Blue Ridge (Herndon)	4 WSW;hwy NE	280	30	Pole line E.
Central (Richmond)	2.5 ENE;RR W	172	45 S6	80 oct. Poles WNW, SE.
(N) Chincoteague NAAS (N)	4.5 WNW;hwy S	38	60h R2 L5 S4	100 oct.
(N) Dahlgren NAF Proving Grounds (N)	0.5 E	20	40h R1 L5 S2	100 oct. CLOSED.
Harcum (NC)	0.2 NW	85	35	Poles, trees sur fld.
Hermitage (Richmond)	5.2 NNW; RR W	200	20 S6	80 oct. Trees, poles E,W.
Hummel (Greys Point)(NC)	3 NE Harmony	30	21	Obsts sur fld.
Kellam (Weirwood)	0.3 SW; RR E	15	20 S1	73 oct. Trees NE,SE.
Leesburg Airpark	0.7 ESE	280	26 S6	80 oct. Pole line NE.
★ Lively Int,6 NW-WA	3.4 WSW;riv W	15	34 L3	35' trees, bldgs NW.
Manassas	2.7 NW; RR S	250	21	Pole line SW,SSE.
Melfa Flight Strip	1.3 W	48	70h	
Midway (Chester)	2 E; hwy S	178	26 S2	80 oct. 20-50' trees E.
★ Milford Int,4TB,AG-LO	1.5 S; RR W	134	26 L3	40' trees S,NE,SW.
Northfield (Richmond)	3 N; hwy W	197	20 S4	80 oct.
Parksley	0.6 WNW	25	18 S4	80 oct.
(A) RICHMOND AAB (A)	7.3 ESE;RR S	160	40h R3 L5 S4	73,100 oct.
Shannon (Fredericksburg)	1.6 SSE;riv E	50	22 S6	80 oct.
Tappahannock Flight Strip	0.8 W	30	40h	8000' strip avail.
West Point	2.3 ESE;riv SSW	24	50h	
Zieger (Warrenton)	3.7 S; hwy NE	440	20 S2	80 oct. Hill NW,W.
W.VA.(P) Martinsburg	4 S; hwy W	550	50h R1 L5 S6	80,91 oct.
North End (Martinsburg)	2.5 NNE;RR W	515	28 S2	80 oct. Pole line N.
→ Hickman (Ocean City)	7.5 NW	15	27 S1	80,91 oct.Data unverified.
→ (N) Annapolis NAF (N)(NC)	1 E	S.L.	Unl S2	Fuel.Ramp;haulout;buoys.
→ Ⓣ Baltimore (NC)	7 S; bay E		Unl L1 S4	Fuel.Ramps.
→ Ⓣ Glen Burnie-Whipp (NC)	1.5 E	50	100 S6	80 oct. Ramp
→ (N) Ⓣ Middle River NAF(Baltimore)(N)(NC)	10 E	S.L.	Unl S6	91,100 oct.Ramps;buoys.
→ (N) Ⓣ Patuxent River NAS (N)(NC)	2.9NE Jarboesv	S.L.	Unl R1 S4	91,100 oct.Ramps;buoys.
→ Ⓣ Air-Harbor (Harrisburg)(NC)	1 SSW;brdg SE	300	30 S4	80 oct.Boat.
→ (N) Ⓣ Dahlgren NAF (N)(NC)	Adj. SE	10	S2	Fuel. Ramp.

RADIO

DISTRICT OF COLUMBIA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANACOSTIA NAS (Washington)	251(142.74)	CN	(3);142.74(7-sunset and on req.)
BOLLING FIELD (Washington)	219(126.18) (128.16)	CA	(3);126.18,128.16
WASHINGTON	332(WA)(116.1)	SBRAZ-VDTX	(4);126.18
Washington Nat'l Arpt.	278(126.18) (118.5)	AC(ILS);25°,0.9	(4);118.5,126.18,131.9
MARYLAND			
ANDREWS FLD (Camp Springs)	317(126.18)	CA	(3);126.18
BELTSVILLE FM	(-)	FM, 41°,17.6	Washington, D. C.
DONCASTER FM	(. . . - - -)	FM, 209°,24.7	Washington, D. C.
PENNSYLVANIA			
BOOTHWYN FM	(- - -)	FM, 260°,9.5	Philadelphia
HOLMESBURG LFM	(- - -)	LFM, 238°,6.5	NE Philadelphia
JOHNSVILLE AIRPORT	203 (142.74)	CN	3105 cont,4495,6210;116.1,126.18, 140.58,142.74 on req (8-1/2 hr past sunset)
MUSTIN NAAF (Philadelphia)	251(126.18) (142.74)	CN	(3);126.18,142.74 (7-sunset,other hrs req on request.)
PHILADELPHIA (SW Arpt)	266(PG)(116.1)	SBMRAZ-VDT;97°,3	(4); 116.1
Philadelphia NE Arpt	278	CI	(4)
Philadelphia SW Arpt	278	CI	(4)
NE Philadelphia Range (Phil. NE Arpt)	371 (NP)	MLWZ-DT,238°,2.8	
WILLOW GROVE (Navy)	391 (NXX)	MRLZ	(3); 142.74
Willow Grove NAS	356 (142.74)	CN; 241°,3.35	(3);142.74 (days only except on 1 hr advance notice)
WINGS FIELD (Ambler)	278	CI	3105 (9-17)
VIRGINIA			
ALEXANDRIA LFM	(- - -)	LFM,209°,2.4	Washington, D. C.
HERNDON FM	(- - - -)	FM, 317°,21.8	Washington, D. C.
MOUNT VERNON	236 (W)	FMK, 209°,8.2	Washington. D. C.
MOUNT VERNON FM	(. . - - -)	FM, 209°,8.2	Washington, D. C.
QUANTICO (Navy)	203 (NYG)	MRLZ	3105, 4495
Quantico MCAS	3295(142.74)	CN; 20°,4.6	(3); 142.74

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WASHINGTON, D. C.	109.9	333.8	360° Mag.	IM ·····(.03)	MM	OM	- - (3.50)
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

DISTRICT OF COLUMBIA

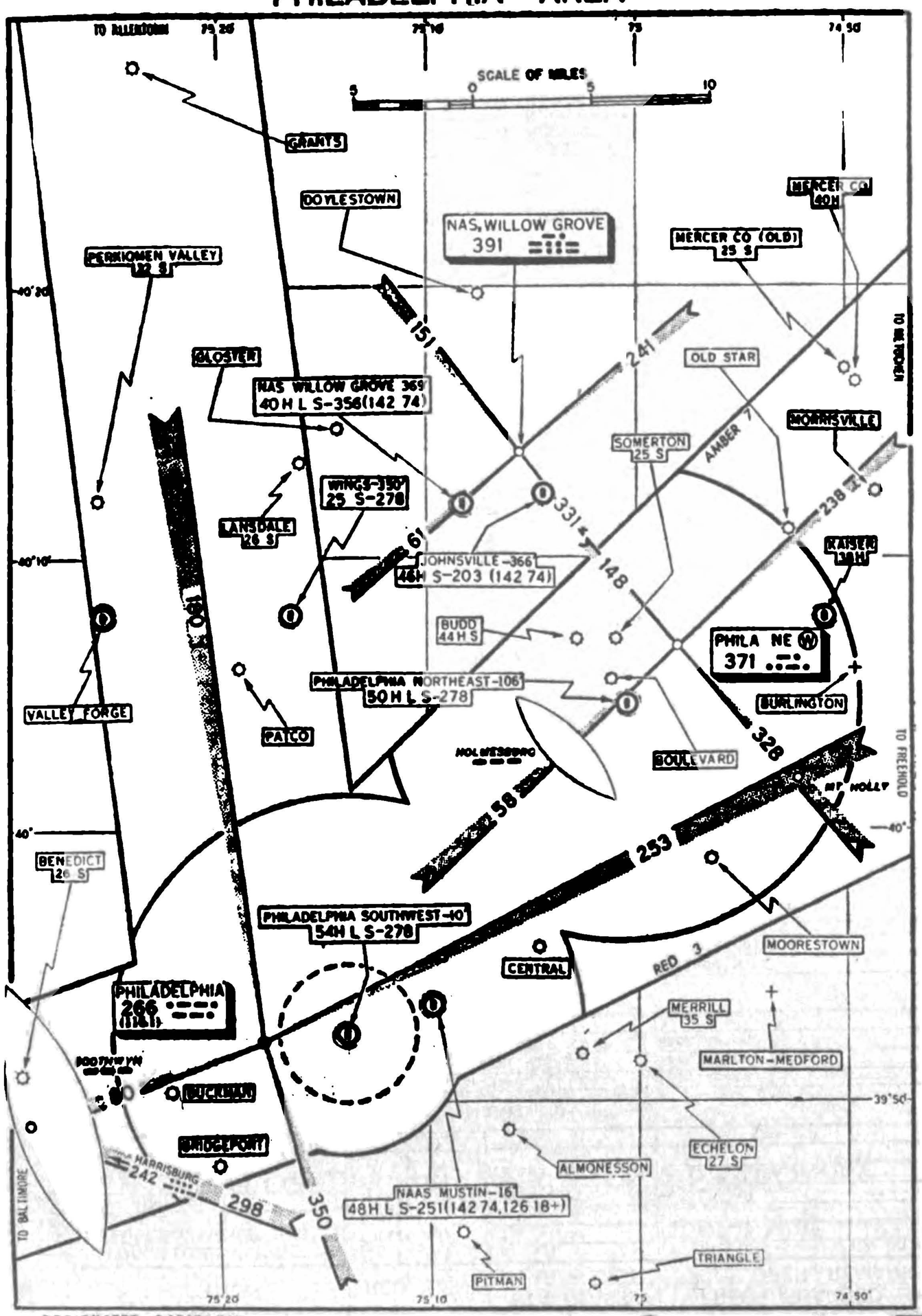
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Anacostia NAS(Washington)	2.4SE Monument	8	60h R1 L5 S4	100 oct. No ben. (N)
(A) Bolling(Washington)(A)	3 SSE Monument	20	60h R1 L5 S6	73,91,100 oct.JP-1.Ridge E
(A,N)Washington National	2 S Monument	17	69h R3 L6 S2	80,91,100 oct.JP-1 req. Rdo rec req.730'Rdo Twr.6.2 NW.
(N)Ⓛ Anacostia NAS (Washington)	2.4 SE Mon't.	8	106 S4	87-100 FOREIGN CLEARING STA. oct.Ramp.All facs prior req. (N)(NC)
MARYLAND				
(A) Andrews (Camp Spring)(A)	1.5 E	279	55h R1 L5 S4	91,100 oct. JP-1
(N) Beltsville OLP (N)	5 ESE	180	40h	CLOSED.
Capital (Berwyn)	2 NW; RR E	70	20 S4	80 oct. Pole line S.
College Park	8.5 NE of D.C	49	22 S6	80 oct. Hill SE. RR NW.
Columbia Air Ctr (Croom)	3 E; RR W	40	20	Trees N,NNW
Congressional (Rockville)	2 SSE;hwy E	450	32 S6	80 oct. Pole line E,NE.
Curtis (Brandywine)(NC)	3 SSW;RR E	200	18	Pole line N,W.
Erco (Riverdale)	0.4 NE; RR W	50	38 S1	80 oct. Trees E,NE,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

MARYLAND

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(A) Ft. Meade (A)	0.5 NE ctr res	180	20h	
Hyde (Clinton)	2 WSW	249	32h S6	80,91 oct. Trees WNW,NE.
Maryland (Pomonkey)	0.2 S; RR S	170	30 S1	80 oct.
Queens Chapel (Hyattsville)	1.5 W; hwy NE	34	17 S6	80 oct.
Schrom (Greenbelt)	0.3 SW; hwy W	177	27h S6	80 oct. Trees NW,SE.
NEW JERSEY				
Almonesson	0.6 NNW	50	18 S6	73 oct. Pole line NNE,SSE.
Bridgeport	0.8 ESE; RR N	23	18 S4	80 oct.
Burlington Airpark	1.7 NE		24 S4	80 oct. No sto.Data unverified.
Central (Camden)	1.8 E;riv S,W	20	25h	Open to private flying.
Echelon (Ashland)	0.5 SE;RR W	100	27 S6	80,91 oct. Pole line NW.
Marlton-Medford (Medford)	4 W	70	19 S4	80 oct. Data not verified.
Mercer County,new (Trenton)	5 NW; RR SE	211	40h	
Mercer County, old (Trenton)	5.8 NW;RR E	200	25 S1	73,80,91 oct.
Merrill (Barrington)	1 ESE; RR E	70	35 S6	80 oct.No sto.Obsts sur fld.
Moorestown	1 NNE; RR S	70	18 S4	80 oct. Trees N.
Pitman	1.6 NNW;RR E	100	17 S6	80 oct. Pole line S,SSW.
Triangle (Glassboro)	4.3 ENE	150	18 S2	80 oct. Pole line SW.
PENNSYLVANIA				
Benedict Inc.(Chester)	6.5 W; hwy W	400	26 S4	80 oct.Rnwy data unverified.
Boulevard (Philadelphia)	12 NE; RR SW	160	22 S4	80 oct. Obst sur fld.
Buckman (Chester)	2.3 WSW;RR NW	90	20 S4	80 oct. No sto.
Budd (Philadelphia)	12.5 NE;RR N	240	44h	
Doylestown	1.5 NNE;RR SW	400	22 S6	80 oct.
Gloster (Montgomeryville)	0.7 SE;hwy W	460	22 S1	80 oct. Pole line SE,S,W.
Grants (Quakertown)	4 WNW; hwy E	600	18 S6	80 oct.
(N) Johnsville	0.8 NW; RR E	366	46h R1 S4	91,100 oct. Res't to Navy.
(N) Kaiser (Bristol)	2 N; riv SE	35	38h	Pole line SW. RESTRICTED.
Lansdale	1.6 ESE;hwy SE	450	26 S6	80,91 oct. No sto. Poles NE.
Morrisville	1.6 W;riv E	180	28 S4	80 oct.
(N) Mustin NAAS (Philadelphia)	4 S; riv S	16	48h R1 L5 S6	100 oct. Pole line NE.NAFC.(N)
Old Star (Langhorne)	2.4 E; RR N	180	24 S5	80 oct.No sto. Poles N,S.
Patco (Norristown)	2.5 SE;bet RRs	200	19 S6	80,90 oct. No sto.
Perkiomen (Collegeville)	1.5 NE;rds NE	280	32 S6	80 oct. Obsts sur fld.
(P) Philadelphia Northeast	12.2 NE;hwy W	106	50h R2 L5 S1	80,91 oct.Rdo req.
" SOUTHWEST	6.5 SW;riv SW	10	54h R2 L5 S6	82,91 oct. Rdo rec req.
Somerton (Philadelphia)	14 NE;RR N,E	200	25 S6	80 oct. Poles N,S,W.
Valley Forge (Norristown)	4 WNW;riv NW,SE	250	24 S6	80 oct.
(N) Willow Grove NAS (N)	4 NNW; hwy E	369	40h R2 L5 S4	91,100 oct. No sto.NAFC.NATS.
Wings (Ambler)	3 WSW;rds E,W	350	25 R1 S6	80,91 oct. Trees N,S.
(N)Ⓛ Mustin NAAS (Philadelphia)(N)	4 S	S.L.	120 S6	87-100 oct. Ramp.(NC)
Ⓛ Philadelphia	10 SW	10	Unl S6	80,91 oct. Ramps; all facs. (NC)
Ⓛ Philadelphia Skyport(Phila.)	Center of City	10	Unl S6	Boat;all facs. (NC)
VIRGINIA				
Beacon (Alexandria)	3 SSW;hwy E	240	24 L1 S6	80 oct.No sto. Pole line S.
Crossroads (Alexandria)	4.5 NW;RR E	250	20 S1	Ltd 80 oct.
Falls Church Airpark	1.9 SW	350	26 S6	No sto. Data not verified.
Hybla Valley (Alexandria)	4.5 SSW;hwy E	66	50 S6	80 oct. Trees,pole lines sur fld.
(N) Quantico MCAS (N)	1.2 SSW;RR W	10	42h R2 L5 S6	73,91,100 oct. NATS.
Springfield (Annandale)	3.5 SSE;RR E,N	240	20 S4	80 oct. No sto. Obsts sur fld.
(N)Ⓛ Quantico MCAS (N)(NC)	1 S	13	180 S4	Fuel. Buoys;boats;ramp.

PHILADELPHIA AREA

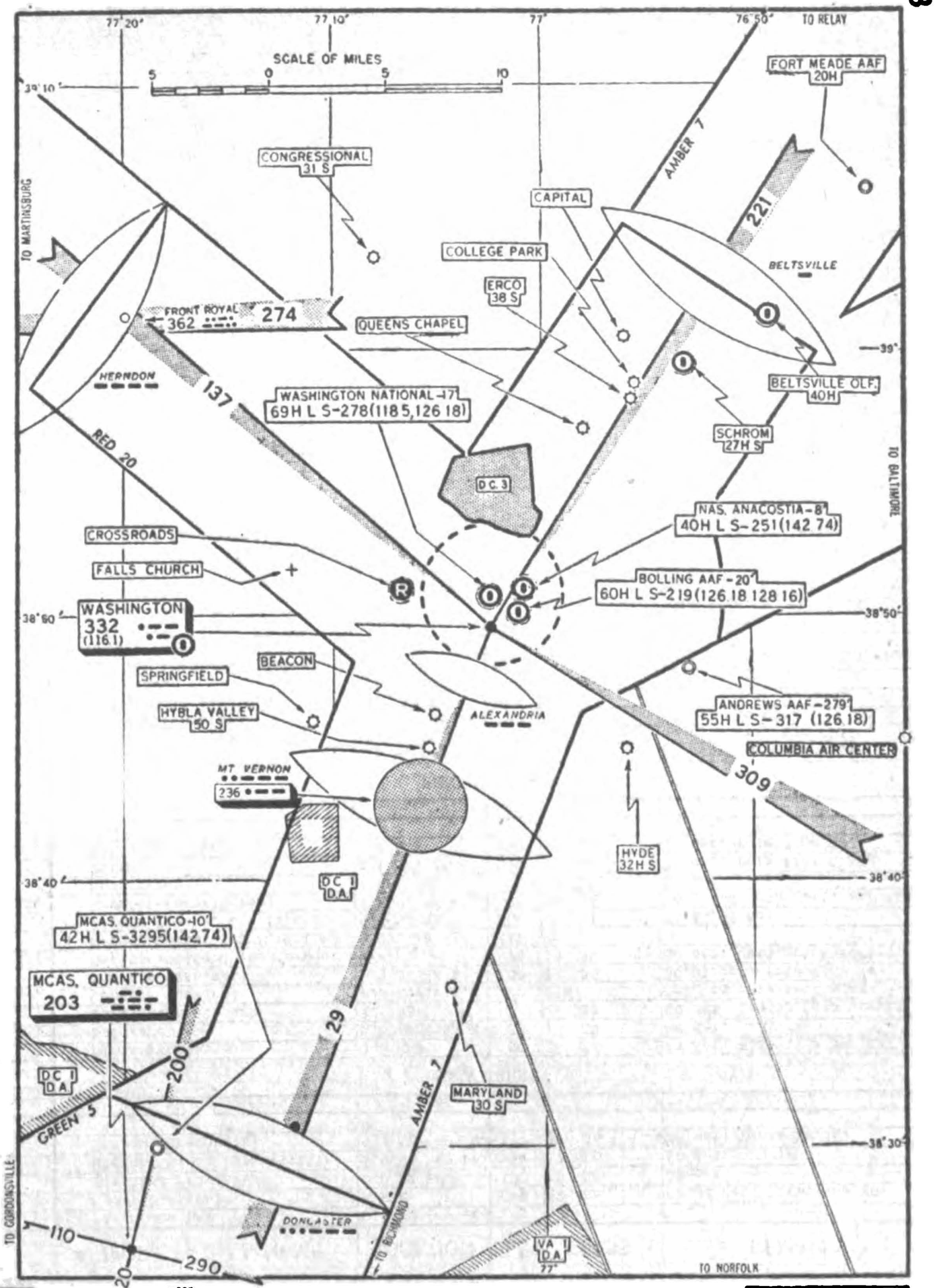


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ EXTREMELY HAZARDOUS
Ⓤ USABLE WITH CAUTION

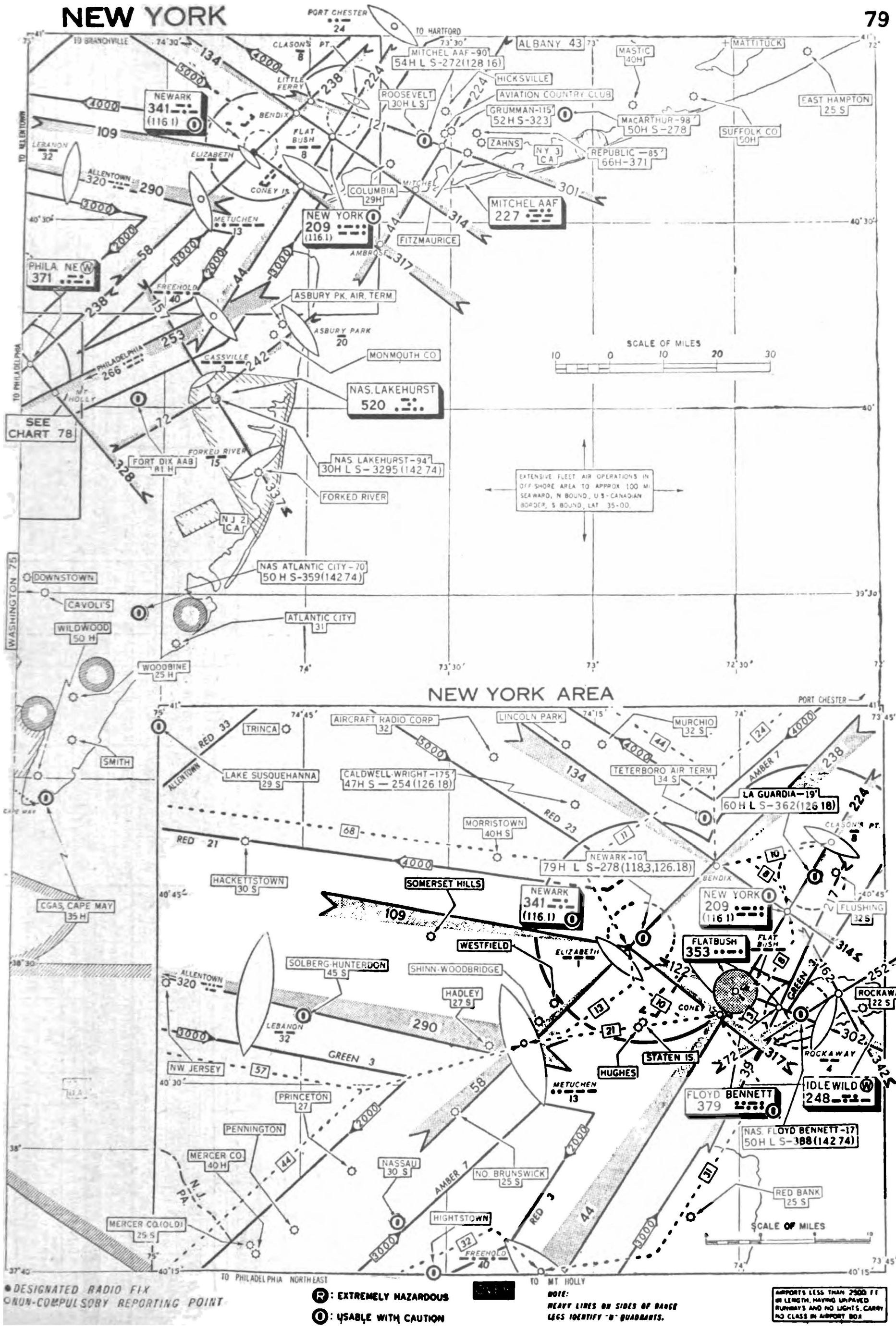
OVER

WASHINGTON AREA



NOTE
AIRPORTS LESS THAN 3000 FT. IN LENGTH, UNPAVED RUNWAYS AND NO LIGHTS, CAN'T BE CLASS III AIRPORT SFC

NEW YORK


PORT CHESTER 24
TO HARTFORD
TO BRANCHVILLE
CLASON'S PT. 8
MITCHEL AAF-90
54H L S-272(128 16)
ALBANY 43
MASTIC 40H
MATTITUCK
LITTLE FERRY
HICKSVILLE
ROOSEVELT 30H L S
AVIATION COUNTRY CLUB
EAST HAMPTON 25 S
NEWARK 341 (116 1)
BENDIX
GRUMMAN-115' 52H S-323
MACARTHUR-98' 50H S-278
SUFFOLK CO 50H
FLAT BUSH 8
ZAHNS
NY 3 CA
REPUBLIC -85' 66H-371
TO ALLENTOWN
LEBANON 32
ELIZABETH
ALLENTOWN 320
CONEY IS
COLUMBIA 29H
MITCHEL
MITCHEL AAF 227
METUCHEN 13
NEW YORK 209 (116.1)
FITZMAURICE
AMBROSE
PHILA NE 371
FREEHOLD 40
ASBURY PK. AIR. TERM
ASBURY PARK 20
MONMOUTH CO
PHILADELPHIA 266
CASSVILLE 3
NAS. LAKEHURST 520
SCALE OF MILES
10 0 10 20 30
SEE CHART 78
FORKED RIVER 15
FORT DIX AAB 81 H
NAS LAKEHURST-94' 30H L S-3295(142 74)
FORKED RIVER
NJ 2 CA
EXTENSIVE FLEET AIR OPERATIONS IN OFFSHORE AREA TO APPROX 100 MI SEAWARD, N BOUND., U S-CANADIAN BORDER, S BOUND., LAT 35-00.
TO PHILADELPHIA
WASHINGTON 75
NAS ATLANTIC CITY-70 50 H S-359(142 74)
DOWNSTOWN
CAVOLI'S
ATLANTIC CITY 31
WILDWOOD 50 H
WOODBINE 25 H
SMITH
CAPE MAY
CGAS, CAPE MAY 35 H
NEW YORK AREA
PORT CHESTER
AIRCRAFT RADIO CORP 32
LINCOLN PARK
MURCHIO 32 S
TRINCA
RED 33
ALLENTOWN
LAKE SUSQUEHANNA 29 S
CALDWELL-WRIGHT-175' 47H S — 254 (126 18)
TETERBORO AIR TERM 34 S
AMBER 7
LA GUARDIA-19' 60 H L S-362(126 18)
MORRISTOWN 40H S
RED 23
RED 21
NEWARK-10' 79H L S-278(118.3,126.18)
CLASON'S PT.
HACKETTSTOWN 30 S
SOMERSET HILLS
NEWARK 341 (116.1)
BENDIX
NEW YORK 209 (116 1)
FLUSHING 32 S
WESTFIELD
ELIZABETH
FLATBUSH 353
FLAT BUSH
SOLBERG-HUNTERDON 45 S
SHINN-WOODBRIDGE
HADLEY 27 S
ALLENTOWN 320
LEBANON 32
CONE
ROCKAWAY 22 S
GREEN 3
NW JERSEY
STATEN IS
HUGHES
METUCHEN 13
ROCKAWAY 4
IDLEWILD 248
FLOYD BENNETT 379
NAS. FLOYD BENNETT-17 50H L S-388(142 74)
PRINCETON 27
PENNINGTON
MERCER CO 40 H
NASSAU 30 S
NO. BRUNSWICK 25 S
AMBER 7
RED 3
RED BANK 25 S
HIGHTSTOWN
MERCER CO (OLD) 25 S
FREEHOLD 40
SCALE OF MILES
TO PHILADELPHIA NORTH EAST
TO MT. HOLLY
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX

NEW YORK

RADIO — NEW JERSEY

LOCATION	FREQ.IDENT	STA. CLASS, BEAR. & DIST.	FREQS.GUARD HRS. OF OPER., REMARKS
ASBURY PARK FM	(-)	FM, 62°,20	Lakehurst NAS
ATLANTIC CITY NAS	359 (142.74)	CN	(3): 142.74 (7-1530 Mon.-Fri.)
CALDWELL-WRIGHT	254 (126.18)	CI	(4);126.18(8:30-sunset,Mon.-Sat.9-sunset Sun.)
CASSVILLE FM(Navy)	(- - - -)	FM,337°,3.25	Lakehurst NAS
ELIZABETH LFM	(- - -)	LFM, 238°,1.4	Newark
FORKED RIVER FM (Navy)	(- -)	FM,157°, 15	Lakehurst NAS
FREEHOLD FM	(- . - . -)	FM,224°, 40	New York, N.Y.
LAKEHURST (Navy)	520 (NEL)	MRLZ	3105 (4495 on req)
Lakehurst NAS	3295(142.74)	CN, 157°, 0.7	(3), 142.74
LEBANON FM	(- -)	FM, 110°, 32	Allentown, Pa.
METUCHEN FM	(. . - - -)	FM, 238°, 13	Newark
NEWARK	341(NK)(116.1)	SBRAZ-VDT	(4);131.9,126.18
Newark Airport	278 (126.18) (118.3)	AC, 58°, 0.9	(3);142.74(7-sunset)

NEW YORK

CLASON'S POINT LFM	(-)	LFM, 44°, 7.5	New York
FLATBUSH	353 (F)	FMK, 224°,8.3	New York
FLATBUSH FM	(- - -)	FM,224°, 8.3	New York
FLOYD BENNETT (New York)	379 (FB)	SBMRLZ-DT	(3)
Floyd Bennett Fld NAS	388 (142.74)	CN, 122°, 1.9	(3) (8-17)
GRUMMAN (Bethpage L. I.)	323	CI	(8-1630,Mon.-Fri.)
IDLEWILD	248 (NY)	SMRLW,73°,2.3	
LA GUARDIA(N.Y.)	362 (126.18)	CI (ILS),44°,2.4 (Appch Control)	(4),116.1,140.1,126.18 AA,TWA, UAL freq
MacARTHUR FIELD (Islip)	278	CI	3105 (7-17 week days,ngt & Sun.if important)
MITCHEL (Hempstead)(Army)	227 (DWM)	SBMRAPZ-DT	(3)
Mitchel Field	272 (126.18)	CA (ILS),301°,3.2	(3), 126.18
NEW YORK	209 (LG) (116.1)	SBMRAPZ-VDTX	(4), 116.1
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
REPUBLIC FIELD (Farmingdale)	371	CI	(3) (days)
ROCKAWAY PARK LFM	(- -)	LFM, 123°, 5	Floyd Bennett

PENNSYLVANIA

PHILADELPHIA NORTHEAST	371 (NP)	MLWZ-DT	

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LA GUARDIA, NEW YORK	109.9		44°Mag	IM (.05)	MM (.81)	OM (3.40)
					MMR 233 --- (.81)	OMR
MITCHEL, NEW YORK	110.3		335 300°Mag	IM (.06)	MM ..... (.81)	OM -- (4.03)
					MMR 257 -- (.81)	OMR 201 --- (4.03)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs. (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW JERSEY

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aero-Marine Terminal (Keyport)(NC)	1 NE;RR S	10	15	Bldg SW.Hwy S
Acft. Radio Corporation (Brooklyn)	2.6 N;riv S	550	32	Poles N,E. PRIVATE.
Asbury Park Air Terminal	4.5 W;rd N	100	21 S4	80 oct.125 tank E.
Atlantic City	1.3 WSW;RR N	11	31 S2	350'tank E,lgtd.No fuel.
(N)Atlantic City NAS(N)	10 NW;RR NE	70	50h RI L5 S4	91,100 oct.Lgts prior req.
Caldwell-Wright	2.4 N;riv N	175	47h RI LI SI	Rest'd factory oper
Cape May CGAS	2.5 ENE	13	35h	CLOSED.
‡ Cape May CGAS(NC)	0.5 S	S.L.	Unl. S	Ramp,haul-out, buoys.
Cavoli's(Richland)	1.5 W;RR N,E	100	20 S4	80 oct.Poleline NNE No sto.
‡ Dawn Patrol(Secaucus)	0.5 N;bridge SW	5	50 S2	73 oct.Winch. (NC)
(N)Clarke(Ocean City)	2.8 SW;RR SE	8	23	Naval tow target practice.
Coyle (Chatsworth)	6 ESE;hwy NE	190	18	(NC)
Downstown(Landisv'l)	1.8 WNW;RR S	120	23 S1	80 oct.Poleline N.
Forked River	1 ESE;riv S	12	18 S4	80 oct.Rnwy data not verified.
(A)Ft.Dix AAB (Wrightstown) (A)	1 SE	120	81h	INACTIVE.
Hackettstown	2 SSW;RR N	560	30 S2	73, 80 oct.
Hadley (New Brunswick)	4 N;RR N	100	27 S6	80 oct.
Hightstown & Air Svc.	1.3 SW;RR W	110	19 S6	80 oct.
(N)Lakehurst NAS (LTA)	1 NNW;riv N	94	38h R2 L5 S4	91, 100 oct. (N)
Lake Susquehanna (Blairstown)	2.3 WSW;RR S	380	28 S6	80 oct.
Lambrose Air College (Ridgefld Park) (NC)	0.5 S	5	40 S4	80 oct.Boat,ramp, winch.
Lincoln Park	1.5 N;RR W	180	23 S1	80 oct. Poleline S[illegible] N.
Little Ferry	0.5 E;bridge N	5	40 S6	80 oct.Boat, ramp,tractor.
Mellor-Howard (Ridgefield Park)	1 S	5	35 S4	80 oct.Ramp,all facs.
Mercer Co.(Trenton) (new)	5 NW;RR SE	211	40h	
Mercer Co.(Trenton) (old) (NC)	5.8 NW;RR E	200	25 S1	73,80,91 oct.
Monmouth Co.(Belmar)	5.5 W;rd E	180	30 S5	80 oct.
Morristown	3 E;RR N	187	40h L5 S4	80 oct.No sto.
Murchio (Paterson)	4.5 WNW;rd N	350	32 S4	80 oct.Trees N.
Nassau Arpk.(Clarksville)	1 NE;RR SE	80	30 S4	80 oct.Pwrline SSE
(A)NEWARK	3.5 SSE;RR E	10	79h R2 L5 S6	80,91,100 oct.JP-1.No sto.2-way rdo req.FEE
North Brunswick	2 SW;RR E	120	25 S2	No fuel.Poles ENE,
Northwest Jersey (Clinton)	3.5 W,RR S	380	19	Poles N,S. ESE.
Ocean Co.(Adamston) (NC)	1 SW;riv N	14	21	Obsts sur fld.
Pennington	2 ESE;RR W	230	20 S6	80 oct.No sto.Pole line ESE.
‡Perth Amboy (NC)	5 E		Unl S1	80 oct.;dolly,boat, ramp,dock,float.
Princeton	3 N;riv E	160	27	Poleline E,ESE.
Red Bank	1 S;RR E	80	25 S6	80,91 oct.Poleline W
Shinn-Woodbridge (Woodbridge)	3.9 NW;RR E	120	21 L S4	73,80 oct.Poleline SE.
Smith C.H.(Cape May)	2.2 NE;RR W	20	19	Pole line WNW.
Solberg-Hunterdon (Readington)	1 NNW;rd E	200	30 S6	80, 91 oct.
Somerset Hills (Basking Ridge)	1.6 SE;RR S	250	24 S6	80 oct.Pole line W.
Teterboro-Air Terminal (Bendix)	0.5 SW;RR NW	5	34 L4 S1	80 oct.No bndry lgts.
Trenton (NC)	6 NE;RR I SE	70	15	Rest'd to USFS.
Trinca (Andover)	2 WSW;RR E	600	24 S6	73 oct.
Westfield (Rahway)	2 W;lake N	100	24 S4	80 oct.No sto. Trees SW,W,N,S.
Wildwood	6 WNW;RR E	22	50h	Obsts S.
(P)Woodbine	2 SE	39	25h	Trees sur fld. At jct RRs.

NEW YORK

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
‡Adirondack (Eagle Bay)(NC)	0.3 S	1707	70 S1	80 oct. Beach
Bender-Brentwood (Brentwood) (NC)	1 ENE;RR N	85	10	
‡Cold Spring Harbor (Oyster Bay)	2 E	10	50	Buoys, beach,boat, dolly
Columbia (Valley Stream)	1 SW;RR N	15	29h	
Davis Flight Strip (Bayport) (NC)	1.3 NNW;RR S	40	22	
Deer Park (NC)	0.8 ESE;RR N	75	10	Trees adj E.Pole line W.
Donovan Hughes (Greenridge)	1 N;crks S,W	10	17 S1	80 oct.
‡Downtown Skyport (New York)(NC)	Foot Wall St.	S.L.	S1	Fuel, Floats
East Hampton	2.5 W;RR S	40	25 S4	80 oct.No sto.
‡Evers (New York)(NC)	11 NE	5	70	Bridge SSW. Ramp buoy,boat,winch.
Fitzmaurice (Massapequa)	1.5 ENE;RR S	36	14 S6	80 oct.No sto.Trees N,S.
(N)Floyd Bennett NAS (New York) (N)	11.8 SSE	17	50h R2 L6 S4	91,100 oct. No sto. No bcn.
Flushing	1.5 NNW;pkwy E	4	32 L S4	80 oct.Pole line W, SW. Portable rnwy lgts prior req
Grumman (Bethpage)	0.5 W;RR NE	115	54h R1 S5	91, 100 oct.Poles SW, SE.
©Grumman (Port Washington)(NC)	1.5 NW	S.L.	158 S4	Fuel.Ramps.All facs.
Hicksville Airpark	2.4 N;RR E	190	17 S4	80 oct.
(A,N) LA GUARDIA (New York)	5 E;riv N	19	60h R3 L6 S1	73,100 oct.Rdo rcv req. INACTIVE. FEE.
©La Guardia (New York)	5 E	S.L.	211 L1 S6	73-100 oct.Ramps, winch,buoys. (NC)
(P)MacArthur (Islip)	8 NE;RRs N,S	98	50h R1 L5 S1	91 oct.All lgts prior req.Rdo req.
Mastic Flight Strip	2.6 NW	66	40h	
Mattituck	1.5 E;bay S	12	25 S4	80 oct.Poles N.
(A)Mitchel(Hempstead)(A)	0.5 NE;RR N	90	54h R3 L6 S6	73,91,100 oct.JP-1. Foreign Clearing Station.
Nassau (Hempstead)	4.5 E;hwy N	80	21	
(N)New York NAS (N) (NC)	11.8 SSE	S.L.	100 S4	73, 91, 100 oct. Ramps,tractor.
©North Long Beach (NC)	0.4 N;brdg SW	S.L.	75 S4	80 oct.Ramp,float
©Q ens (White Stone)(NC)	1 N	S. L.	200 S4	80 oct.Ramp,dock.
Republic (Farmingdale)	1.3 ENE;RR N	85	66h R1 L5	NE blocked.Closed ngts.trans.PRIV.
Richmond Co.(Travis) (NC)	0.5 SW,riv W	10	24	160' chimney SW.
Rockaway (Edgemere)	1 WSW	20	22 S4	80 oct.Pwr line S, SE.
Roosevelt (Mineola)	1.6 ESE;RR N	90	30h L3 S5	80,91,100 oct. Wires NE.
Sayville (NC)	0.8 N	25	15	Trees sur fld.
Staten Island (New Springville)	1 S;rd W	40	22 S4	80 oct.Poleline SW
Suffolk Co. (Westhampton Beach)	2.6 N	69	50h	
©Yonkers (NC)	S end	S.L.	Unl. S4	Fuel. Ramp.Clsd Dec.15-Mar.15.
Zahns(Amityville)	2.5 NNE;RR NE	80	22 S6	80 oct.Pole line SW.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) (NC)-Not charted.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BANNING FM	(-)	FM, 76°, 25	Riverside
CORONADO FM	(- -)	FM, 139°, 10	San Diego
DAGGETT(San Bernardino Co.	365 (DG)(116.1)	SBRAZ-VDT,149°, 0	(4); 116.1
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
FONTANA FM	(- - - -)	FM,324°, 16.5	Riverside
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LA MESA FM	(-)	FM, 75°, 13.2	San Diego
LEBEC FM	(- -)	FM, 141°, 42	Bakersfield
LINDBERGH FLD (San Diego)	278 (126.18) (118.3)	AC	(4);126.18,118.3,131.9
LONG BEACH	233 (HB)	SBMRLZ-DT,298°,3.9	(3)
LOS ANGELES	260 (LA)	SBRAZ-DTX,244°, 3.8	(4)
MARCH FIELD (Riverside)	201 (126.18)	CA (ILS)	(3)
MIRAMAR MCAS (San Diego)	3295(142.74)	CN	(3); 142.74 (GCA)
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1
MUROC (Army)	350 (DUC)	BMRL	
Muroc AAF	219 (126.18)	CA; 64°, 2.2	(3); 126.18
NEWHALL (Int.)	209 (NH)(116.1)	BMRL-VDT,317°,0.1	(4); 116.1
OCEANSIDE	326 (OC)	MHT	(4)
OCEANSIDE FM	(- - - -)	FM, 325°, 34	San Diego
PALMDALE	322 (PA)(116.1)	SBMRAZ-VDT,216°,2.5	(4); 116.1
REAM NAAS (San Ysidro)	3295(142.74)	CN	3105,142.74 (745-1630 Mon.-Fri.)
RIVERSIDE (March Fld)	388 (RV)(116.1)	SBMRAZ-VDT,128°,2.9	(4); 116.1
SAN BERNARDINO AAF	272 (126.18)	CA	(3); 126.18
SAN CLEMENTE ISLAND (Navy)	359 (NGA)	MRLZ	3105
San Clemente Island NAAS	3295(142.74)	CN, 305°, 1.6	3105;4495;142.74
SAN DIEGO (Lindbergh Fld)	224 (SQ)(116.1)	SBRAZ-VDT,139°,2.3	(4); 116.1
San Diego NAS	266 (142.74)	CN	(3);126.18,142.74
San Diego NAS (Seapl.)	2870	CN	
SAN NICOLAS ISLAND FM(Navy)	(- - - -)	FM, 275°, 59	San Clemente Island
TRONA (Int.)	323 (EW)	SBMRAZ-DT,349°,11	(4) Not manned cont.
VICTORVILLE AAF	278 (126.18)	CA	(3); 126.18

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
MARCH, CALIF.	109.9		229° Mag.	IM (.19)	MM ..... (.85)	OM --(3.99)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical **Numbers in the Frequency Column Indicate VHF on which Voice is** Available.

AIRPORTS — CALIFORNIA

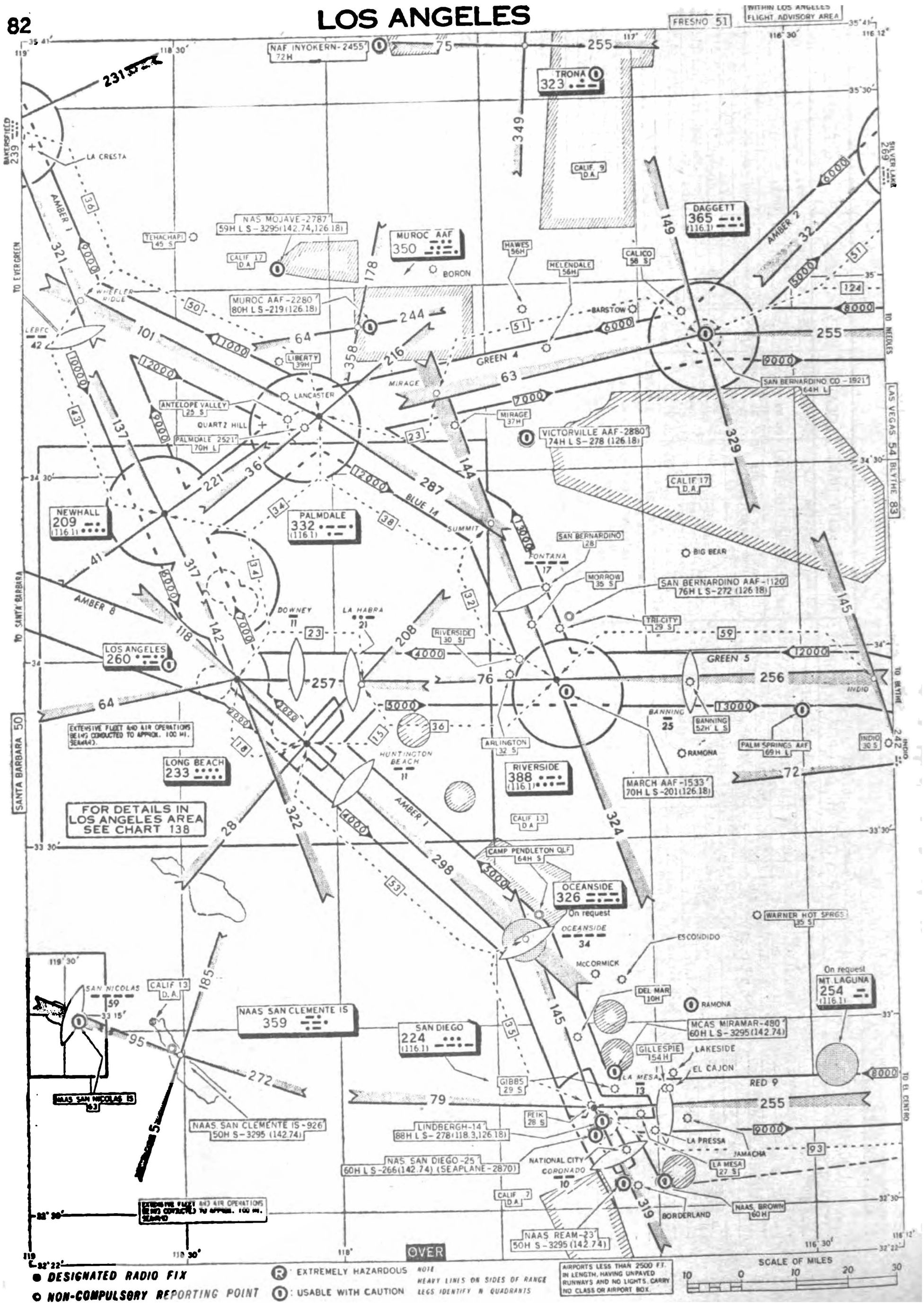
AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Antelope Valley (Lancaster)	3.4 S;hwy E	2470	25 S2	Ltd 73 oct.
Arlington (Riverside)	4.5 WSW;RR W	765	32 S6	80 oct. No sto.
Bakersfield Kern Co. #2 (Bakersfield) (NC)	6 E;RR, hwy S	660	21	
(P) Banning	1 SE;RR N	2190	52h L5 S5	80,91 oct. No sto.
Barnes (Rosamond)(NC)	12 E;rd N	2300	38	
Barstow	1.8 N;hwy S	2150	24 S6	80 oct.
Big Bear City	0.5 NW;hwy S	6850	24	
Borderland(San Ysidro)	1.5 WNW;RR W	80	19 S6	80,91 oct. Pole line SE.
Boron	0.5 NE;RR S	2550	21 S1	80 oct.Poles E. Data not verified
(N) Brown NAAS (Otay)(N)	5.5 ESE	523	60h	INACTIVE.
Buffalo Springs (Avalon)	7 NW	1560	35	On Catalina Island. PRIVATE.(NC)
Calico (Yermo)	2.3 WNW;hwy S	1921	58 S1	73 oct. Mtns N.

CALIFORNIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Camp Pendleton OLF (Oceanside)	6 NNE;RR SE	75	64h L S1	NATS.
Castle OLF (San Diego)	On NW end San Clemente Isl.	163	20	(NC)
Clark's Dry Lake OLF (San Diego)(NC)	65 NE W portion of Dry Lake	450	50	
Del Mar	1.1 NNE	11	10h	
Escondido	1 W;RR,hwy N		19 S4	73, 91 oct.
Gibbs (San Diego)	7 NNE;hwy W	405	29 S4	87 oct.No sto. Poles E, NE.
Gillespie (Santee)	1 SSW;rd E	385	54h	Towers W.
Hawes (Victorville)	27.5 N;RR N	2319	56h	
Helendale (Victorville)	20 N	2508	56h	
(N) Inyokern NAF (N)	0.5 WNW;RR E	2455	72h	INACTIVE.
Jamacha (La Mesa)	6.8 ESE;riv N	520	24 S1	80 oct.
La Cresta(Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data not verified.
Lakeside	1.3 W;hwy S	400	20 S1	80 oct.Pole line NE,SW.
La Mesa	2 WSW;hwy N	500	27 S4	80 oct.Pole line SSE.
Lancaster	0.5 NW;RR E	2330	22 S4	73 oct.No sto.Poles E,S.
La Pressa (La Mesa)	4 S;hwy W	275	19 S4	80 oct.
Liberty (Rosamond)	4.1 S;RR E	2300	39h	
(A) LINDBERGH (San Diego)	2 W	14	88h R2 L5 S6	80,91 oct. INACT.Rdo req.ARPT OF ENTRY.
(A) March (Riverside)(A)	8.8 SE;RR SSW	1533	70h R3 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEARING STATION.
McCormick (San Marcos)	1.5 WSW;RR NE	530	22 S4	80,91 oct.
Mirage (Victorville)	18 WNW;rd S	2865	37h	
(N) Miramar MCAS (San Diego)	9.5 N	480	60h R1 L5 S4	91,100 oct. No bcn. (N)
(N) Miramar OLF (San Diego)	1 N Miramar	470	25	Hwy SE. (N) (NC)
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Morrow (Rialto)	1.8 S;RR N	1100	35 S5	80,91 oct.Pwr line W.
(A) Muroc AAF (A)	2 S;dry lk N	2280	70h R2 L5 S6	73,91,100 oct.JP-1.No sto.CLOSED.
National City	1.1 SSE;RR W	10	22 S4	80 oct.Poles,stack NW.
(P) Palmdale	3 NE;RR W	2521	70h R1 L5 S2	91,100 oct.
Peik (San Diego)	4.8 WNW	20	28 S4	80 oct.No sto.Twr SE.
Quartz Hill (Lancaster)	6.5 SW	2450	29 S1	80,91 oct.Data not verified.
Ramona	0.6 WNW;rd NE	1440	15 S1	80 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
(N) Ream NAAS (San Ysidro)	3.2 W	23	50h R1 L S4	91,100 oct. No sto.(N)
Riverside	2.3 WNW;riv SE	760	30 S4	80 oct.No sto.
(N) Rosedale OLF (San Diego)	6 N;RR W	400	15	(N) (NC)
Ryan (Hemet) (NC)	2.5 WSW;RR SE	1502	23	
Ryan #1 (Hemet) (NC)	4.2 NW;hwy E	1500	22	
San Bernardino	4.7 NNW;RR W	1425	28	Pole line E.
(A) San Bernardino AAF(A)	3.5 ESE;RR SW	1120	76h R1 L5 S6	62,73,91,100 oct. JP-1.
San Bernardino Co. (Daggett)	5 E;RR S	1921	64h R1 L3	
(N) San Clemente Island NAAS (N)	8 S of N end	926	50h R2 L S4	91,100 oct.B-2, obst lgts.
(N) San Diego NAS (N)	4.5 WSW	25	60h R1 L5 S6	91,100 oct. NAPC
(N) San Nicolas Island NAAS (N)	On E end Isl.	502	63	INACTIVE.
Tehachapi	1 N;RR S	3952	45 L S2	73,91 oct.Pole line SE.
Tri-City (San Bernardino)	3.3 SSE;RR S	1015	29 S4	91,80 oct.Poles SE, W.
(A) Victorville AAF (A)	6 NW;RR E	2880	74h R1 L5 S5	100 oct.
Warner Hot Springs	3 W;hwy NE	3140	35 S1	Ltd 80 oct. Trees E, S.
(N) San Diego NAS (N)(NC)	4.5 WSW	S.L.	106 R1 L S6	87,100 oct. Ramps;haulout facs.
El Cajon	2.5 N;hwy W	450	23 S6	80,91 oct.No sto.

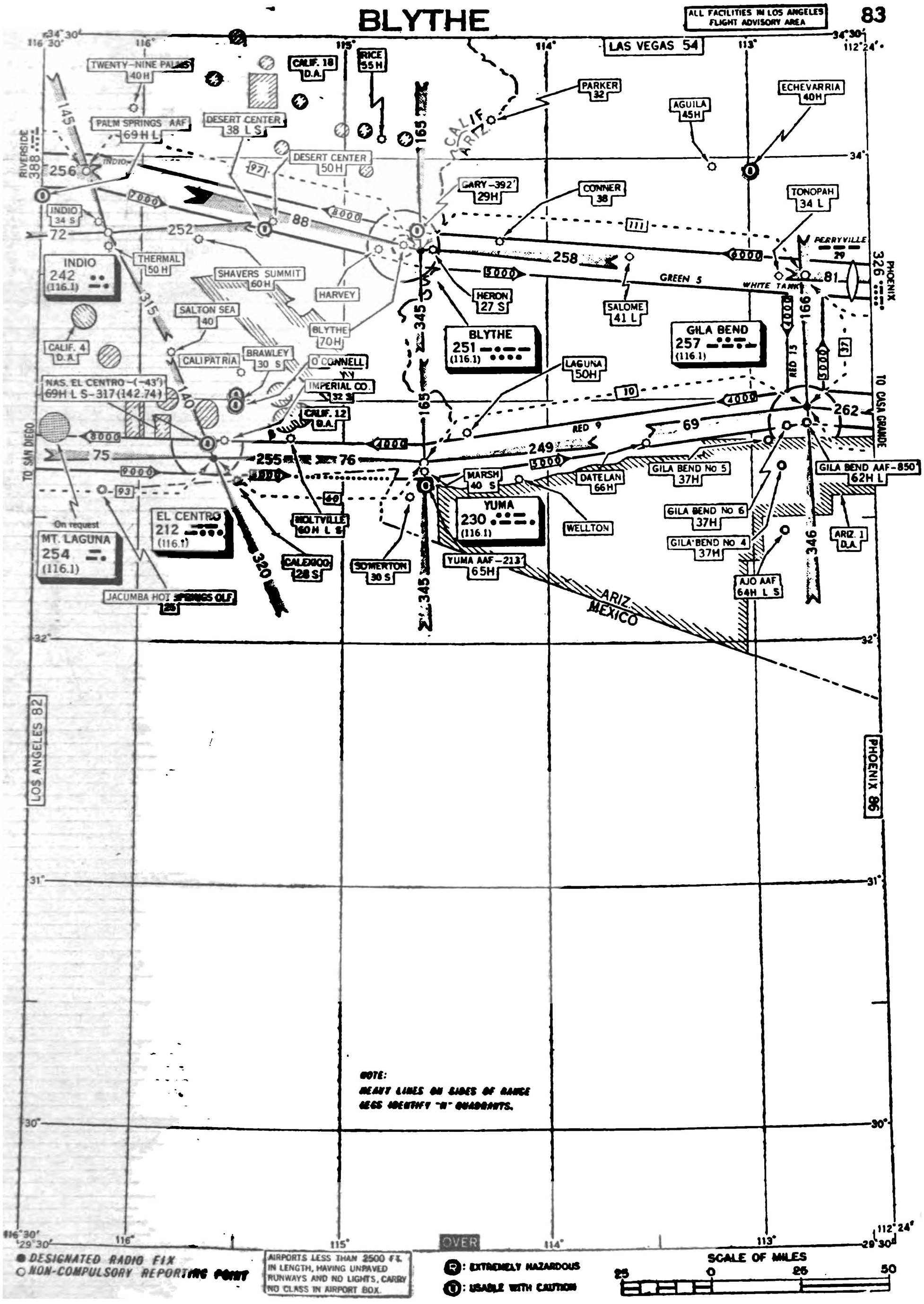
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

LOS ANGELES


WITHIN LOS ANGELES FLIGHT ADVISORY AREA
FRESNO 51
NAF INYOKERN-2455' 72H
TRONA 323
CALIF 9 D.A.
DAGGETT 365 (116.1)
BAKERSFIELD 239
LA CRESTA
AMBER 1
AMBER 2
AMBER 8
NAS MOJAVE-2787' 59H L S-3295 (142.74,126.18)
CALIF 17 D.A.
MUROC AAF 350
BORON
HAWES 56H
HELENDALE 56H
CALICO 58 S
BARSTOW
MUROC AAF-2280' 80H L S-219 (126.18)
TEHACHAPI 45 S
WHEELER RIDGE
LEBEC 42
LIBERTY 39H
LANCASTER
ANTELOPE VALLEY 25 S
QUARTZ HILL
PALMDALE 2521' 70H L
MIRAGE
GREEN 4
GREEN 5
MIRAGE 37H
VICTORVILLE AAF-2880' 74H L S-278 (126.18)
SAN BERNARDINO CO-1921' 64H L
LAS VEGAS 54
BLYTHE 83
TO NEEDLES
TO EVERGREEN
NEWHALL 209 (116.1)
PALMDALE 332 (116.1)
SUMMIT
BLUE 14
SAN BERNARDINO 28
FONTANA 17
BIG BEAR
MORROW 35 S
SAN BERNARDINO AAF-1120' 76H L S-272 (126.18)
TRI-CITY 29 S
DOWNEY 11
LA HABRA 21
RIVERSIDE 30 S
TO SANTA BARBARA
LOS ANGELES 260
SANTA BARBARA 50
EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD.
LONG BEACH 233
FOR DETAILS IN LOS ANGELES AREA SEE CHART 138
HUNTINGTON BEACH 11
ARLINGTON 32 S
RIVERSIDE 388 (116.1)
CALIF 13 D.A.
MARCH AAF-1533' 70H L S-201 (126.18)
BANNING 25
BANNING 52H L S
RAMONA
PALM SPRINGS AAF 69H L
INDIO 30 S
INDIO
TO BLYTHE
CAMP PENDLETON OLF 64H S
OCEANSIDE 326
On request
OCEANSIDE 34
WARNER HOT SPRGS 35 S
ESCONDIDO
McCORMICK
On request
MT LAGUNA 254 (116.1)
DEL MAR 10H
RAMONA
MCAS MIRAMAR-480' 60H L S-3295 (142.74)
GILLESPIE 154H
LAKESIDE
EL CAJON
LA MESA 13
TO EL CENTRO
SAN NICOLAS 59
CALIF 13 D.A.
NAAS SAN CLEMENTE IS 359
SAN DIEGO 224 (116.1)
NAAS SAN NICOLAS IS 93
NAAS SAN CLEMENTE IS-926' 50H S-3295 (142.74)
GIBBS 29 S
PEIK 28 S
LINDBERGH-14' 88H L S-278 (118.3,126.18)
NAS SAN DIEGO-25' 60H L S-266 (142.74) (SEAPLANE-2870)
NATIONAL CITY
CORONADO 10
LA PRESSA
JAMACHA
LA MESA 27 S
CALIF 7 D.A.
BORDERLAND
NAAS BROWN 60H
NAAS REAM-23' 50H S-3295 (142.74)
EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD.
OVER
SCALE OF MILES
10 0 10 20 30
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS
R EXTREMELY HAZARDOUS
USABLE WITH CAUTION
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

BLYTHE

ALL FACILITIES IN LOS ANGELES FLIGHT ADVISORY AREA



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

BLYTHE

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS GUARDED, HRS. OF OPER., REMARKS
OILA BEND (AAF)	257 (UQ)(116.1)	SBMRAZ-VDT, 166°.4	(4); 116.1
PERRYVILLE FM	(- - -)	FM, 261°, 29.8	Phoenix
YUMA (AAF)	230 (UP)(116.1)	SBMRAZ-VDT,165°.5.8	(4); 116.1
CALIFORNIA			
BLYTHE	251 (YH)(116.1)	SBMRAZ-VDT,265°.4.1	(4); 116.1
EL CENTRO	212(MB)(116.1)	SBMRLZ-VDT	(4);116.1
El Centro NAS	317 (142.74)	CM, 320°, 3.5	(4);142.74 (7-18, & on 30 min. notice)
INDIO	242 (IN)(116.1)	BMRLZ-VDT	(3); 116.1
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aguila	1.5 NNW	2000	45h	
(A) Ajo AAF (A)	6 N;RR NE	1434	64h L3 S4	91, 100 oct,
Conner (Quartzsite)	0.3 SSW; hwy W	850	38	150' hill S.
Datelen	4 W Aztec; RR S	450	66h	
Echevarria (Wickenburg)	14.8 WSW; RR N	2380	40h	
(A) Gila Bend AAF (A)	4 S;hwy W	850	62h R1 L5	
(A) Gila Bend #4 (A)	18 SSW	1000	37h	INACTIVE.
(A) Gila Bend #5 (A)	15.3 SW	800	37h	INAVTIVE.
(A) Gila Bend #6 (A)	7.7 WSW	800	37h	INACTIVE.
Laguna Landing Strip (Laguna)	6.5 NE	500	50h	
Marsh (Yuma)	0.7 E;RR W	130	40 S1	80 oct.
Parker	1.4 ENE;RR W,S	430	32 S2	No fuel. Fld rough.
Salome (NC)	0.7 S;hwy N	1876	45	15' poles NW.
★ Salome Int. 27B. LA-PH	13.5 S	1354	41 L3	Mtns 7 mi E, 3 mi W.
Sky Ranch (Wickenburg) (NC)	0.8 N;riv E	2000	24	Trees SSE.
Smiley (Wellton)(NC)	13 E;RR S	250	26	Poles SW, NE.
Somerton	3 ENE; RR W	250	30 S3	80 oct. No sto.
★ Tonopah Int. 31 LA-PH	5 NNE Wintersburg	1102	34 L2	
Wellton	0.5 NW; RR S	225	24 S2	73,80 oct.
(A) Yuma AAF (A)	4.5 SSE;RR N	213	65h R1	INACTIVE.
CALIFORNIA				
Blythe	7 W;hwy S	397	70h R1	
Borego Hotel OLF (San Diego)(NC)	65 ENE	400	25	
Brawley	1.3 NE; RR W	120	30 S6	80 oct. Poles SE,E.
Calexico	1.2 W;riv N	0	28 S6	80,91 oct. Data not verified.
Calipatria	0.5 W;hwy adj S,rd E	180	49 S3	No fuel or sto. 35' poles all zones.
Clark's Dry Lake OLF (San Diego)	65 NE	450	50	On W portion Dry Lake (NC)
Coyote Wells OLF-North (San Diego)	13 NNE	300	26	(NC)
Coyote Wells OLF-South (San Diego)	3 E	300	25	(NC)
Desert Center	2.5 NE;rd NW	555	50h	
★ Desert Center Int. 17. LA-PH	1 ENE; hwy S, W	894	38 L3 S1	30 oct. (truck)
(N) EL CENTRO NAS (N)	7 WNW;RR S	-43	69h R2 L5 S4	91,100 oct. No sto.
Gary (Blythe)	5 NNW;RR N	392	29h	
Harvey (Blythe)	13.5 W; hwy S	565	23 S4	73 oct. No sto.
Heron (Blythe)	1.2 E;riv E	265	27 S1	73 oct. Poles N.
Holtville	7.5 NE; canal W	58	60h	
Imperial County (Imperial)	1 S; hwy E	-69	32 L4 S6	80,91 oct. Poles SE, No ben. Lgts prior req.
Indio	0.8 NNE;RR SW	-12	34 S4	80 oct. No sto. Pwr line W.
(N) Jacumba Hot Springs OLF (N)	1 E; hwy N	2900	25	
(N) Ocotillo OLF (San Diego)(N) (NC)	37 WNW of Brawley	160	30	Creek N.
O'Connell Brothers (Brawley)	0.3 S;hwy W		17 S6	80 oct. Data not verified.
(N) PALM SPRINGS	2.5 E; RR NE	448	69h L5	
Rice	2.2 ESE; RR N	832	55h	
Salton Sea	NW Westmoreland	-152	40	Portable rnwy lgts on req.
Shavers Summit (Indio)	29.5 ESE; hwy S	1690	60h	Mtns N,S,E.
Thermal	1.8 SW; hwy W	-117	50h	
Twentynine Palms	4.9 W	1768	40h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
COCHISE (Int)	272(CJ)(116.1)	SBMRAZ-VDT,259°,2.3	(4); 116.1
DAVIS MONTHAN FIELD (Tucson)	396 (126.18) (118.3)	C	(3); 116.1,126.18,118.3,131.9
HILLTOP FM	(-)	FM, 79°, 34.4	Cochise
LITCHFIELD PARK NAF	290 (142.74)	CN	(3); 142.74 (0730 to sunset)
LUKE (Phoenix)(Army)	219(DRM)(118.5)	BMRLZ	(3)
Luke Field	396 (126.18)	CA, 163°,8.2	(3); 126.18
MESA FM	(-)	FM, 243°, 18	Phoenix
PEORIVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
PHOENIX (Sky Harbor Airport)	326(PH)(116.1)	SBMRAZ-VDT,261°,2.3	(4); 116.1
RED ROCK FM	(- - - -)	FM, 307°,42.8	Tucson
SKY HARBOR AIRPORT (Phoenix)	278 (126.18) (118.5)	C	(4); 116.1,140.1,126.18,118.5,131.9
TUCSON	338(TZ)(116.1)	SBMRAZ-VDT	(4); 116.1
VAIL FM	(- -)	FM, 106°, 1.5	Tucson
WILLIAMS (Chandler)(Army)	236 (DKU)	BMRLZ	(3)
Williams Field	201 (126.18)	CA; 120°, 4.8	(3); 126.18
NEW MEXICO			
RODEO (Int)	254(RH)(116.1)	BMRLZ-VDT,24°, 0	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

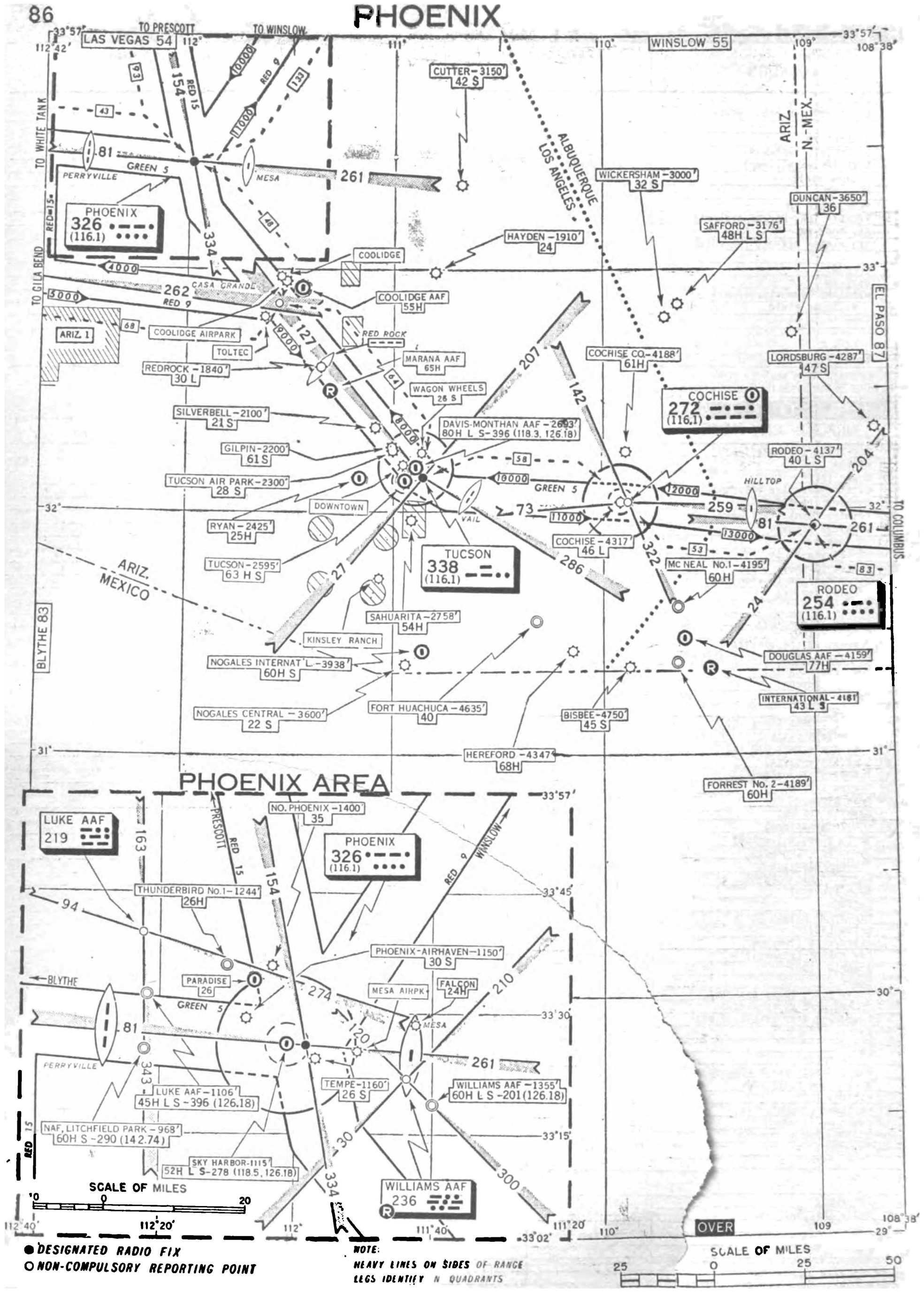
AIRPORTS

ARIZONA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Air-Topia (Phoenix)(NC)	6.2 SW;RR N	1050	26	
Bisbee	6.4 SSE;RR W	4750	45 L S4	80 oct.Poles W.Port. rnwy lgts prior req.
Bowie (NC)	1.9 W;RR N	3800	20	Pole line NE,W.
Clifton-Greenlee (Clifton)(NC)	8.7 SSE;hwy W	3800	35	
★ Cochise Int,T-3,PH-EO	6 S;hwy E	4317	46 R1 L3	
(P) Cochise County (Willcox)	3.8 W;road N	4188	61h	
Coolidge Airpark	1.7 S;RR E	1450	34	
(A) AAF (A)	6.4 SE	1587	55h	INACTIVE.
Flying Field	1.5 WSW;RR E	1450	21 S1	80 oct.Pole line E.
Cutter (Globe)	6.8 ESE;RR N	3150	42 S4	80 oct.
(A) DAVIS-MONTHAN (Tucson)(A)	5 SE;RR SW	2693	80h R2 L5 S6	73-100 oct.JP-1.
(A) Douglas AAF (A)	8.5 NNW	4159	77h	INACTIVE.Twrs E.
Duncan	1 NE	3650	36	Pole line W.Race track W.
Falcon (Mesa) (NC)	7.3 NE;hwy S	1332	24h	
Florence (NC)	5 SSE;hwy E	1500	45	
(A) Forrest #2 (Douglas)(A)	6.4 WNW	4189	60h	INACTIVE.
Ft. Apache (White River)(NC)	2.6 SSW;riv S	5200	34	Trees S.
(A) Fort Huachuca (A)	4 E;RR NW	4635	40	
Gilpin (Tucson)	4.2 NW;RR W	2200	61 L5 S6	80,91 oct.Poles E,SW.
Hayden	1.2 S;hwy E	1910	24	
Hereford	2.5 WSW;rd N	4347	68h	Twr SE.
INTERNATIONAL (Douglas)	3.3 E;hwy N	4181	43 L4 S4	80,91 oct.Fld lgts prior req.ARPT OF ENTRY.
Litchfield (Litchfield Park)(NC)	0.5 NW;canal S	1062	23	Trees SW.
(N) Litchfield Park NAF (N)	4.8 S;riv E	968	60h R1 S1	100 oct.
(A) Luke (Phoenix)(A)	18 WNW	1106	45h R2 L5 S6	91,100 oct.JP-1.
(A) McNeal #1 (Douglas)(A)	19 NNW	4195	60h	INACTIVE.
(A) Marana AAF (A)	6 NW;hwy NE	1891	65h	CLOSED.
Mesa Airpark	1.4 W;RR SE	1238	27 S1	80 oct.Pole line E.
Nogales Central	3 N;RR E	3600	22 B6	80 oct.No storage.
(P) International	8 NE;hwy N	3938	60h L5 S4	73,80,91 oct.All lgts prior req.ARPT OF ENTRY.
North Phoenix (Cactus)	0.5 E;hwy W	1400	35	
Paradise (Glendale)	5 ENE;canal S	1256	26 S2	No fuel.Trees S.
Phoenix Airhaven	3.9 WNW;RR W	1150	30 S6	80 oct.No sto.Poles SW,NE.
★ Redrock Int,7B,PH-EO	2.3 NW;RR E	1840	30 L4	
Ryan (Tucson)	13 WSW; road S	2425	25h	Low dike S & E corner.
Safford	4.5 ENE;riv S	3176	48h L5 S5	80 oct.
Samarita Flight Strip	2.2 E;hwy W	2758	54h	
Sells (NC)	2 NW;road E	2380	30	
Silverbell (Tucson)	11.2 NW;RR E	2100	21 S1	80 oct.
SKY HARBOR (Phoenix)	2.8 ESE;RR N	1115	52h R2 L5 S6	73,80,91,100 oct.
Superior (NC)	2 WSW;hwy N	2600	15	Pole line NE
Tempe	1.2 SW;RR E	1160	26 S6	80 oct.Poles E,trees W.
Three Point (Casa Grande)(NC)	1.5 NNW;RR SW	1400	32	
Thunderbird #1 (Phoenix)	12 NW	1244	26h	
Thunderbird #2 (Phoenix)(NC)	13 NE;rd W	1500	25	Allway: 2500 x 2000'.
Toltec	0.4 NNW;RR W	1500	26	Poles SSW,SW.
(P) Tucson	7 S;RR W	2595	63h S6	80,91 oct.
Airpark	3.1 NW;RR E	2300	28 S1	Ltd 80 oct.
Wagon Wheels Ranch (Tucson)	5.5 ENE	2200	26 S6	80 oct.No sto.Poles S,SE.
Wickersham (Safford)	2.5 S;RR NE	3000	32 S6	80 oct.
Willcox (NC)	0.9 WNW;hwy E	4186	36	75' trees SE;bldgs NE.
(A) Williams (Chandler)(A)	10 E	1355	60h R2 L5 S6	73,91,100 oct.JP-1.
Downtown (Tucson)	1.4 S;RR SW.	2400	34 S2	80,91 oct.Poles N.
Kinsley Ranch (Amado)	1.6 NNW;riv,RR E	3100	31	
Mesa (NC)	1.8 NNW;hwy E	1100	18	Pwr line E,W;bldgs E;canal embankment W.
NEW MEXICO				
Lordsburg	1 SE;RR N	4287	47 S1	73 oct.
★ Rodeo Int,26A,PH-EO	7.3 NNE;RR SE	4137	40 R1 L3 S1	Ltd 73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

PHOENIX

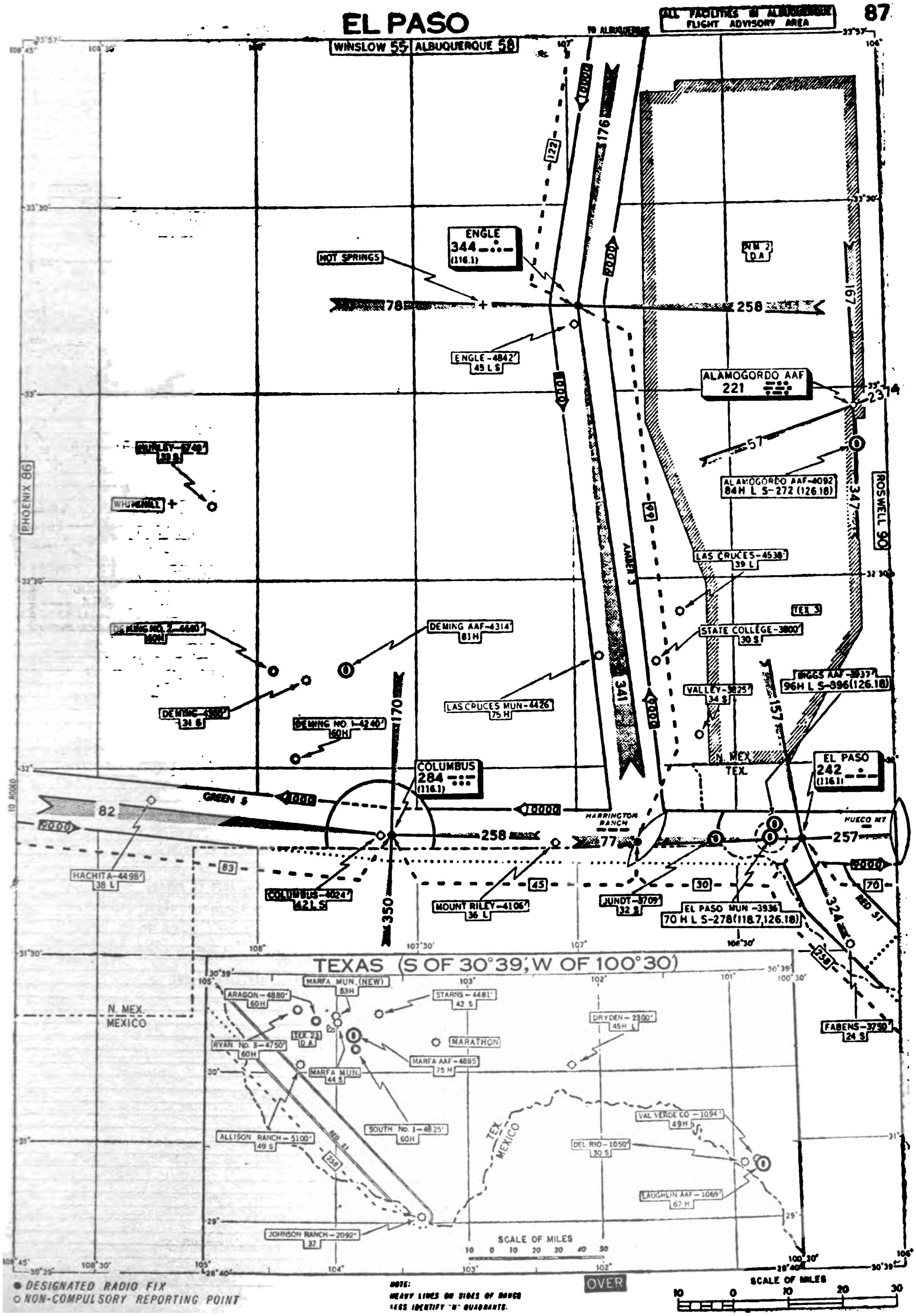


PHOENIX AREA

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS

EL PASO



NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

OVER

EL PASO

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMOGORDO (Army)	221 (DGR)	BMRLZ	(3).4220: 126.18
Alamogordo AAP	272 (126.18)	CA(ILS): 167°.6.5	(3):126.18 (730-1930 Mon - Fri (Sat & Sun 730-1630
COLUMBUS (Int.)	284 (EX)(116.1)	SBMRAZ-VDT:262°.1.9	(4): 116.1
ENGLE (Int.)	344(EX)(116.1)	SBRAZ-VDT:176°.2.9	(4): 116.1
HARRINGTON RANCH PM	(- - -)	PM. 257°. 28.5	El Paso, Texas
TEXAS			
BIGGS FIELD (El Paso)	396 (126.18)	CA (ILS)	(3); 126.18
EL PASO	242(EO)(116.1)	SBRAZ-VDT	(4): 116.1
El Paso Mun. Airport	278 (126.18)(118.7)	AC; 257°. 4.9	(4);131.9,142.74,118.7,126.18
HUECO MOUNTAIN PM	(-)	PM. 77°. 18	El Paso

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ALAMOGORDO AAF, N. MEX.	109.9		155° Mag.	IM ·····(.22)	MM (1.00)	OM --(4.48)
					MMK	OMK
BIGGS, TEXAS	109.9		213° Mag.	IM (.26)	MM ·····(.85)	OM --(3.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.,
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Alamogordo AAF (A)	8.5 SW; hwy S	4092	84h R3 L5 S4	73,100 oct.
★ Columbus Int,34,PH-EO	0.6 ESE; hwy N	4024	42 R1 L3 S1	73 oct.
(A) Deming AAF (A)	2 ESE; hwy W	4314	81h	INACTIVE.
" Airpark	6 WSW; RR N	4300	31 S4	73 oct. No sto.
(A) " #1 (South)(A)	19.5 SSW	4240	60h	Cattle on fld. INACTIVE.
(A) " #2 (Center) (A)	11.5 W; hwy S	4440	60h	INACTIVE.
★ Engle Int,10,EO-PU	2.6 E; hwy S	4842	45 R1 L3 S1	73,91 oct.
★ Hachita Int,29B,PH-EO	0.8 W; RR N	4498	38 L3	Pole line N
Hot Springs	7.4 N; hwy E	4500	75 S4	80 oct. Rnwy data not verified.
Hurley	0.8 W; RR E	5748	33 S4	73 oct. No sto.
Jundt (Strauss)	8.8 ESE; hwy NE	3709	32 S6	73,80 oct. No sto. Trees E.
Las Cruces (NC)	1 NE; hwy N	3900	35	
" mun.	8.5 W; hwy S	4426	75h	Cattle on fld.
" 4,EO-PU	9.5 NE; hwy S	4538	39 L3	Pwr line S.Mtn E.
Mt. Riley Int,37,PH-EO	1.8 SE; RR N	4106	36 L2	
Silver City (NC)	11.5 SE; hwy E	5400	54	
State College (Mesilla Park)	1.2 E; RR W	3800	30 S6	73 oct. No sto.
Tularosa (NC)	2.2 N; RR W	4550	25	Use strips only.
Valley (Berino)	1 ENE; hwy W	3825	34 S1	73 oct. 50' hi-line E.
Whitehill (Silver City)	4 SSE RR W	5800	30	Pole line N; Rnwy data not verified.
TEXAS				
Allison Ranch (Marfa)	23.4 SW; hwy E	5100	49 S1	73 oct.
(A) Aragon #5 (Marfa)(A)	9 WNW;RR,hwy N	4880	60h	INACTIVE.
(A) Biggs (El Paso)(A)	6 NE; RR W	3937	96h R3 L5 S6	73,91,100 oct. JP-1. No range.
Blair Ranch (Marathon)(NC)	23.5 SSW; hwy E	4180	24	PRIVATE.
Castolon (NC)	0.8 NNW; riv SW	2300	16	High butte 1/2 mi E.
Cox Ranch (Longfellow)(NC)	8.4 WSW; RR S	3700	48	PRIVATE.
Decker Ranch (Candelaria)(NC)	11.5 N	3650	29	PRIVATE.
Del Rio	1.5 WNW; hwy E	1000	30 S4	80 oct. No sto. Poles N; fence NW.
Dryden Airdrome (Dryden) (NC)	1 W	2159	18	
★ Dryden Int,29,EO-JI	5.7 W; hwy N	2300	45h L3	
(N) EL PASO MUN	4.8 ENE; RR SW	3936	70h R2 L5 S1	73,91,100 oct.No sto. ARPT OF ENTRY.
Fabens	0.7 NNE; RR SW	3750	24 S2	73 oct. Ltd sto.
Johnson Ranch (Castolon)	10.7 SE; riv SW	2092	37	
(A) Laughlin (Del Rio)(A)	7 E; hwy N	1069	67h	INACTIVE.
Marathon	0.7 SE; RR N	4039	44 S1	80 oct. Cattle on fld.
(A) Marfa AAF (A)	9 ESE; RR N	4885	75h	INACTIVE.
" Mun. (new)	4 N; hwy E	4835	53h	
" Mun. (old)	2 NE; hwy,RR S	4780	44 S4	73 oct. No sto. Pole line S, SW.
Presidio (NC)	4 N; hwy W	2850	48	NOT MAINTAINED.
" Air Strip (NC)	0.8 NE; RR S	2580	21	PRIVATE.
(A) Ryan #3 (Marfa)(A)	19 WNW; RR NE	4750	60h	INACTIVE.
Sanderson Landing Strip (NC)	2 W; RR N	2900	24	PRIVATE.
(A) South #1 (Marfa)(A)	15 SE	4825	60h	INACTIVE.
Starns (Alpine)	2.1 NW; RR E	4481	42 S6	80 oct. No sto.
Terlingua (NC)	2 E; hwy SW	2700	36	
Val Verde County (Del Rio)	4.5 ENE; RR S	1094	49h	
Yoas Ranch (Longfellow)(NC)	6.5 WSW; RR N	3675	36	PRIVATE. Pole line NW.

•h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) (NC)-Not charted.

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CARLSBAD	311 (DKB)	MRLW;322°, 3.5	
ROSWELL (Army)	305 (DEH)	SBMRAZ	(3);126.18
Roswell AAF	396 (126.18)	CA; 255°, 3.6	(3);126.18
TEXAS			
GUADALUPE PASS	(116.1)	VP	(4); 116.1
GUADALUPE PASS FM	(-)	FM, 79°, 17.4	Salt Flat
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso
SALT FLAT (Int.)	335(DN)(116.1)	BMRLPZ-VDT;162°,2.7	(4); 116.1

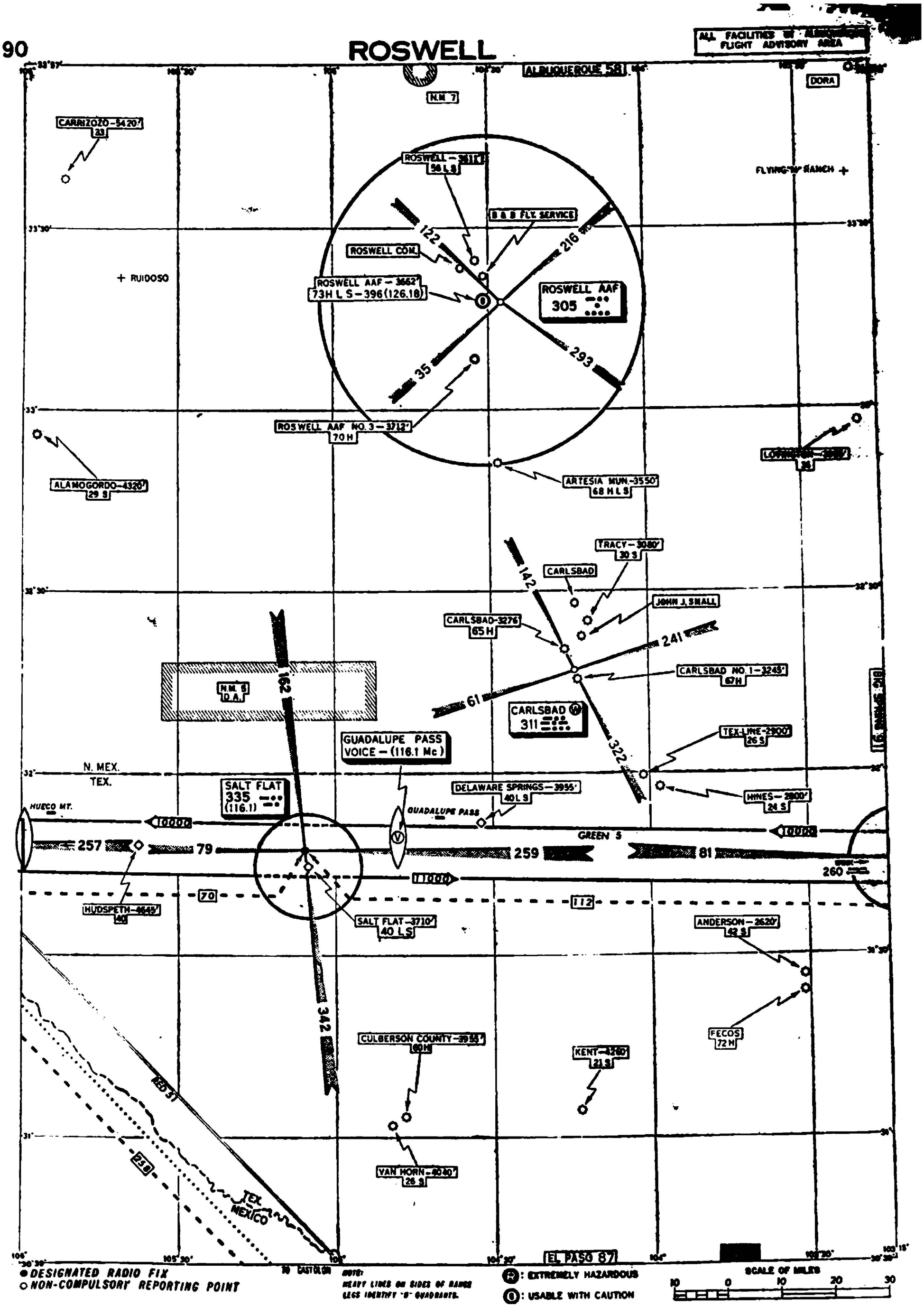
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

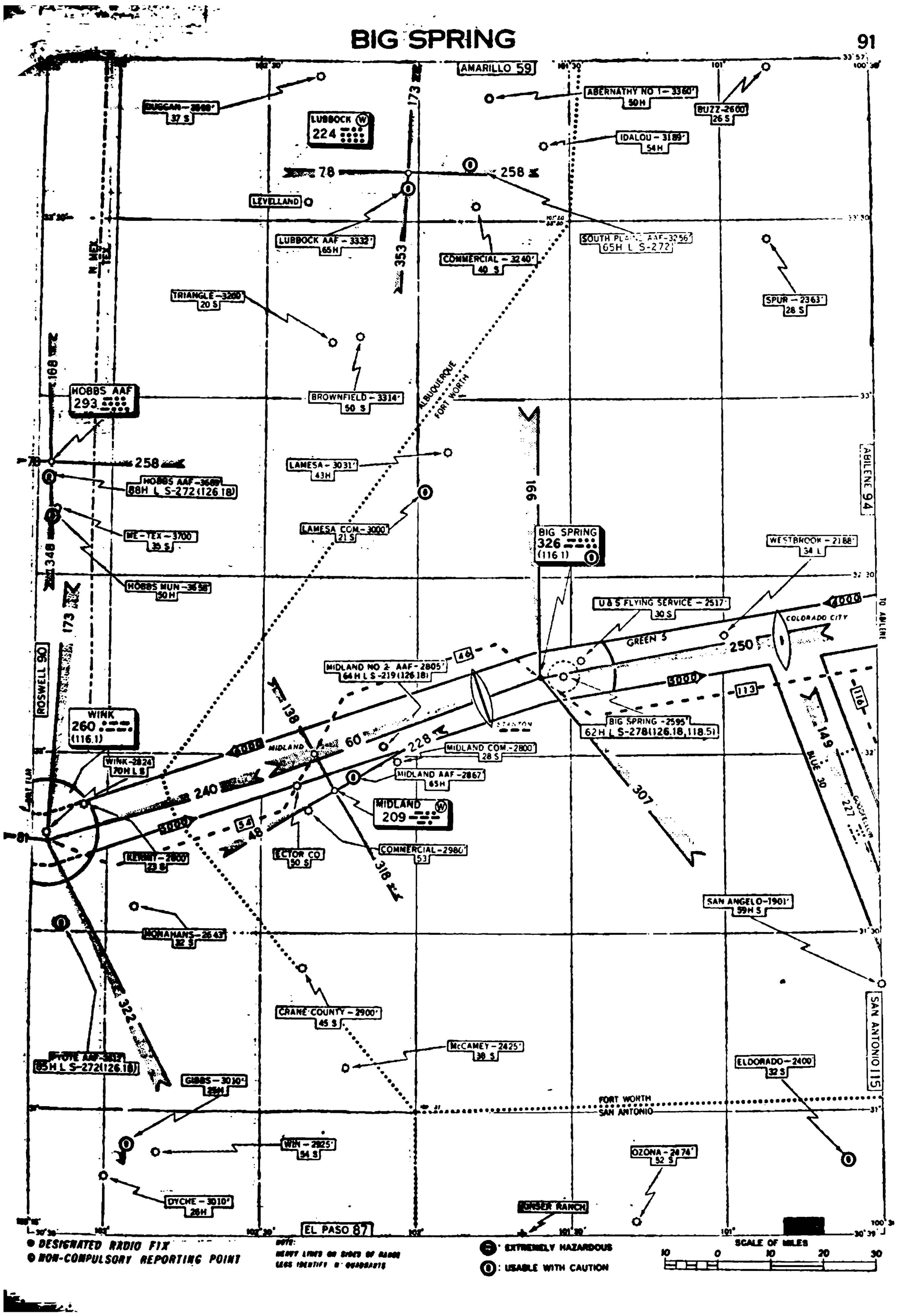
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamogordo	2.4 N;hwy W	4320	29 S1	73 oct.Pole line ESE.
(P) Artesia Mun.	4.2 W;rd S	3550	69h L5 S1	73-91 oct.
CARLSBAD,MUN.	6.1 SSW;hwy E	3276	65h	
" #1	11 S;hwy 3 W	3245	67h	
Carrizozo	0.6 N;hwy S	5420	33	
Dora (NC)	1.3 E;hwy W	4000	27 S1	73 oct. Pole line N.
Flying"M"Ranch(Milnesand)	0.4 NNW;hwy E	4360	20 S2	80 oct. Data unver.
John J.Small (Carlsbad)	3.5 SSE;RR NE	3150	27 S1	73 oct.
Lovington	0.8 E;hwy S	3985	36	Pole line S,SE,SW.
Parker (Ruidoso)(NC)	8.2 NNE;rd N	7200	36	Cattle on fld.
ROSWELL	1.6 WNW;RR E	3611	56 L5 S6	73 oct.Fld lgts prior req.
(A) Roswell AAF (A)	6.5 S	3662	73h R2 L5 S6	91,100 oct. No sto:
(A) " AAF #3 (A)	18 S	3712	70h	INACTIVE.
Ruidoso Flying Ser.	2 N	6900	51 S2	80 oct. Data not verified.
Tracy (Carlsbad)	2 ENE;hwy S	3080	30 S6	80 oct.
B&B Flying Ser.(Roswell)	2 S;RR E	3600	32 S2	80 oct.
Carlsbad	3 N;RR E	3100	38 S2	80 oct.,
Roswell Com.	4 W;hwy N	3700	33	Windmill SW.
TEXAS				
Anderson (Pecos)	1.8 NNW;RR W	2620	42 S6	80 oct.Poles sur fld.
(P) Culberson Co. (Van Horn)	3.5 ENE;RR S	3955	60h	
★ Delaware Sprgs Int.11, EO-FV	16.8 E Pine Springs	3955	40 L3 S1	91 oct. Pole line SSE.
Fort Hancock (NC)	0.7 SE;RR N	3565	24	Pole line N.
Hines (Red Bluff Lake)	5.5 NNW;RR W	2800	24 S1	80 oct.
★ Hudspeth Int,4,EO-FV	48.5E ElPaso	4645	40 L1	
Kent	0.6 WNW;RR S	4260	21	Pole line NE,SW.PRIVATE.
Pecos	2.2 SSW;RR W	2617	72h	
★ Salt Flat Int,8A,EO-FV	80 E El Paso	3710	40 R1 L3 S1	80 oct;91 oct in emerg.
Sierra Blanca (NC)	2.8 ESE;hwy N	4450	21	Pole line N.
Tex-Line (Orla)	13.7 NNW;hwy W	2900	26 S1	Ltd 80 oct.
Van Horn	0.8 SE;RR N	4040	26 S1	80 oct. Poles NW.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

ROSWELL


ALL FACILITIES OF ALBUQUERQUE FLIGHT ADVISORY AREA
ALBUQUERQUE 58
DORA
N.M. 7
CARRIZOZO – 5420'
23
ROSWELL – 3917'
56 L S
B & B FLT. SERVICE
FLYING "B" RANCH
122
216
ROSWELL COM.
RUIDOSO
ROSWELL AAF – 3662'
73H L S – 396 (126.18)
ROSWELL AAF
305
293
35
ROSWELL AAF NO. 3 – 3712'
70 H
ALAMOGORDO – 4326'
29 S
ARTESIA MUN. – 3550'
68 H L S
TRACY – 3080'
30 S
142
CARLSBAD
JOHN J. SMALL
CARLSBAD-3276'
65 H
241
CARLSBAD NO. 1 – 3245'
67 H
N.M. 8
D.A.
162
61
CARLSBAD
311
TEX-LINE – 2900'
26 S
322
GUADALUPE PASS
VOICE – (116.1 Mc)
N. MEX.
TEX.
SALT FLAT
335
(116.1)
DELAWARE SPRINGS – 3955'
40 L S
HINES – 2800'
24 S
HUECO MT.
GUADALUPE PASS
GREEN 5
257
79
259
81
260
HUDSPETH – 4645'
40
SALT FLAT – 3710'
40 L S
ANDERSON – 2620'
42 S
342
CULBERSON COUNTY – 3955'
60 H
KENT – 4260'
21 S
FECOS
72 M
RED 3T
258
TEX.
MEXICO
VAN HORN – 4040'
26 S
EL PASO 87
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

BIG SPRING


AMARILLO 59
DUGGAN – 3698'
37 S
LUBBOCK (W)
224
ABERNATHY NO 1 – 3360'
50 H
BUZZ-2600'
26 S
IDALOU – 3189'
54 H
78
258
173
LEVELLAND
LUBBOCK AAF – 3332'
65 H
353
COMMERCIAL – 3240'
40 S
SOUTH PLAINS AAF-3256'
65 H L S-272
SPUR – 2363'
28 S
N. MEX. – TEX.
168
TRIANGLE – 3200'
20 S
BROWNFIELD – 3314'
50 S
ALBUQUERQUE
FORT WORTH
HOBBS AAF
293
LAMESA – 3031'
43 H
258
HOBBS AAF – 3609'
88 H L S-272 (126.18)
LAMESA COM – 3000'
21 S
166
ABILENE 94
ME-TEX – 3700'
35 S
348
BIG SPRING
326
(116.1)
WESTBROOK – 2188'
34 L
HOBBS MUN – 3656'
50 H
173
U & S FLYING SERVICE – 2517'
30 S
COLORADO CITY
GREEN 5
4000
250
TO ABILENE
MIDLAND NO 2 AAF – 2805'
64 H L S-219 (126.18)
46
ROSWELL 90
WINK
260
(116.1)
138
5000
113
110
BIG SPRING – 2595'
62 H L S-278 (126.18, 118.5)
149
BLUE 30
MIDLAND
60
228
MIDLAND COM. – 2800'
28 S
WINK – 2824'
70 H L S
240
MIDLAND AAF – 2867'
65 H
307
MIDLAND
209
5000
54
48
REVERT – 2800'
23 S
ECTOR CO
50 S
COMMERCIAL – 2980'
53
318
SAN ANGELO – 1901'
59 H S
RONAMANS – 2643'
32 S
CRANE COUNTY – 2900'
45 S
McCAMEY – 2425'
30 S
ELDORADO – 2400'
32 S
SAN ANTONIO 115
322
PYOTE AAF – 3612'
65 H L S-272 (126.18)
GIBBS – 3010'
25 H
FORT WORTH
SAN ANTONIO
WIN – 2825'
34 S
OZONA – 2474'
52 S
DYCHE – 3010'
25 H
SUNSET RANCH
EL PASO 87
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF ALBUQ
LEGS IDENTIFY 8 QUADRANTS
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

BIG SPRING

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
HOBBS (Army)	293 (DHB)	BMRLZ	(3)
Hobbs AAF	272 (126.18)	CA; 168°, 2.8	(3); 126.18 (7-23)
TEXAS			
BIG SPRING	326(BZ)(116.1)	SBRAZ-VDT	(4); 116.1
Big Spring Arpt.	278(126.18)	C; 70°, 3.9	(4); 126.18, 131.9,Tr.&gds.118.5 mcs.
COLORADO CITY FM	(-)	FM, 70°, 47	Big Spring
LUBBOCK (AAF)	224 (DHH)	MRLWZ,173°,3.9	
MIDLAND	209 (DON)	MRLWZ;48°,3.8-AAF	(3); 126.18
Midland No. 2	219 (126.18)	CA	(4); 140.58
PYOTE AAF	272 (126.18)	CA	(3); 126.18
SOUTH PLAINS AAF(Lubbock)	272	CA	(3) (8-22)
STANTON FM	(- - -)	FM, 240°, 12	Big Spring
WINK	260(WP)(116.1)	SBRAZ-VDT,353°,1.2	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Continental (Jal)(NC)	0.7 W;hwy E	3100	20	
(A) HOBBS AAF (A)	8 NW;RR NE	3689	88h R2 L5 S4	91,100 oct.
HOBBS MUN.	5 W; hwy N	3658	50h L5	All lgts prior req.
(P) Me-Tex (Hobbs)	4.5 W;hwy N	3700	35 S6	80,87 oct.Pole line N, W, NW.
TEXAS				
(A) Abernathy #1 (A)	5 ENE	3346	50h	INACTIVE.
(P) BIG SPRING	3.3 WSW;RR N	2595	62h R2 L5 S6	80,91,100 oct.
Brownfield	5 E;hwy N	3314	50 S2	80 oct.Pole line N, NE.
Buzz (Roaring Sprgs)	2.3 NNE;hwy W	2600	26 S1	73 oct. Pole line S.
Commercial (Lubbock)	3.2 SE;bet hwys	3240	40 S6	73,80 oct.No sto.Use strips.
Commercial (Odessa)	1.9 E;RR N	2980	53 S4	Pole line NE,NNE.
Crane Co. (Crane)	1 NNW;hwy E	2900	45 S1	73 oct. Hi-line S.
Duggan (Littlefield)	1.2 S;RR NE	3550	37 S4	80,91 oct.Pwrline E,NE,SE.
Dyche (Ft. Stockton)	9 SW;RR E	3010	26h	Allway area: 4000 x 4000'.
Ector County (Odessa)	5 NNW;hwy W	2900	50 S2	80 oct.
Eldorado	1 W;RR E	2400	32 S1	80 oct.Poles E;livestock on fld.
Gibbs (Ft. Stockton)	2.7 NNW	3010	25h	Allway area: 4800 x 5000'.
Idalou	5.5 ENE	3189	54h	
Iraan (NC)	5 NW	2300	26	
Kermit	1.3 E;RR W	2800	23 S1	80 oct.
Kinser Ranch (Ozona)	25 W;riv W	2474	24 S1	80 oct.PRIV. Data not verified.
Lamesa	8.9 NNE;hwy E	3031	43h	
Lamesa Commercial	1.8 WNW;hwy S	3000	21 S1	73 oct. Pole line SSE.
Levelland (NC)	2 S;hwy W	3550	25 S1	80 oct.Pole line NW,SW.
(A) Lubbock AAF (A)	9 W;RR S	3332	65h	INACTIVE.
McCamey	0.8 SW;RR N	2425	38 S6	80 oct.Hi-line SSE.
(A) Midland AAF (A)	9.5 WSW;RR S	2867	65h	INACTIVE.
Midland Commercial	1.1 SSE;RR N	2800	28 S4	80 oct.No sto.Rnwy data unverif.
(A,N) Midland #2 (A)	3 NW;rd E	2805	64h R1 L5 S4	91,100 oct.JP-1, No sto.
Monahans	1.2 SW;RR N	2643	32 S2	80 oct.Pole line SSW.
Ozona	4.9 WSW;hwy N	2474	52 S1	80 oct.
(A) Pyote AAF (A)	1 SW;RR N	2612	85h R1 L5 S6	91,100 oct. No sto.
Rita Santa (NC)	0.5 S;RR N	2800	40	Obsts sur fld.
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S2	80,91 oct.
(A) SOUTH PLAINS AAF (Lubbock)	5.5 NNE;RR W	3256	65h R1 L5 S6	73,91,100 oct.
Spur	2.2 S;RR N	2363	28 S4	80,91 oct.
Triangle (Brownfield)	1.8 SSW;RR NW	3200	20 S2	73 oct.
U & S Flying Service (Big Spring)	1.5 N;hwy S	2517	30 S6	80 oct.
West Brook Int,32,EO-FV	1.3 S;RR N	2188	34 L3	Pole line N, S.
Win (Ft. Stockton)	3.2 E;hwy N	2925	54 S6	80 oct.
Wink	3.6 WNW;rd SE	2824	70h R1 L5 S2	80 oct.

L-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ABILENE	379(AP)(116.1)	SBRAZ-VDT	(4): 116.1
Abilene Air Terminal	278 (118.7)	C; 180°, 2.3	(4):118.7,126.18,140.1,131.9
CLARENDON	233 (CP)(116.1)	RMRL-VDT, 199°, 2	(4): 116.1
HARPERSVILLE (Int.)	284 (HV)(116.1)	MHVT	(4): 116.1
SHEPPARD/KELL MUN. ARPT.(Wichita Falls)	201 (126.18)	CA	(4): 126.18
WICHITA FALLS (Sheppard/Kell Mun.Arpt)	239 (WF)(116.1)	SBRAZ-VDT, 301°, 1.9	(4): 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

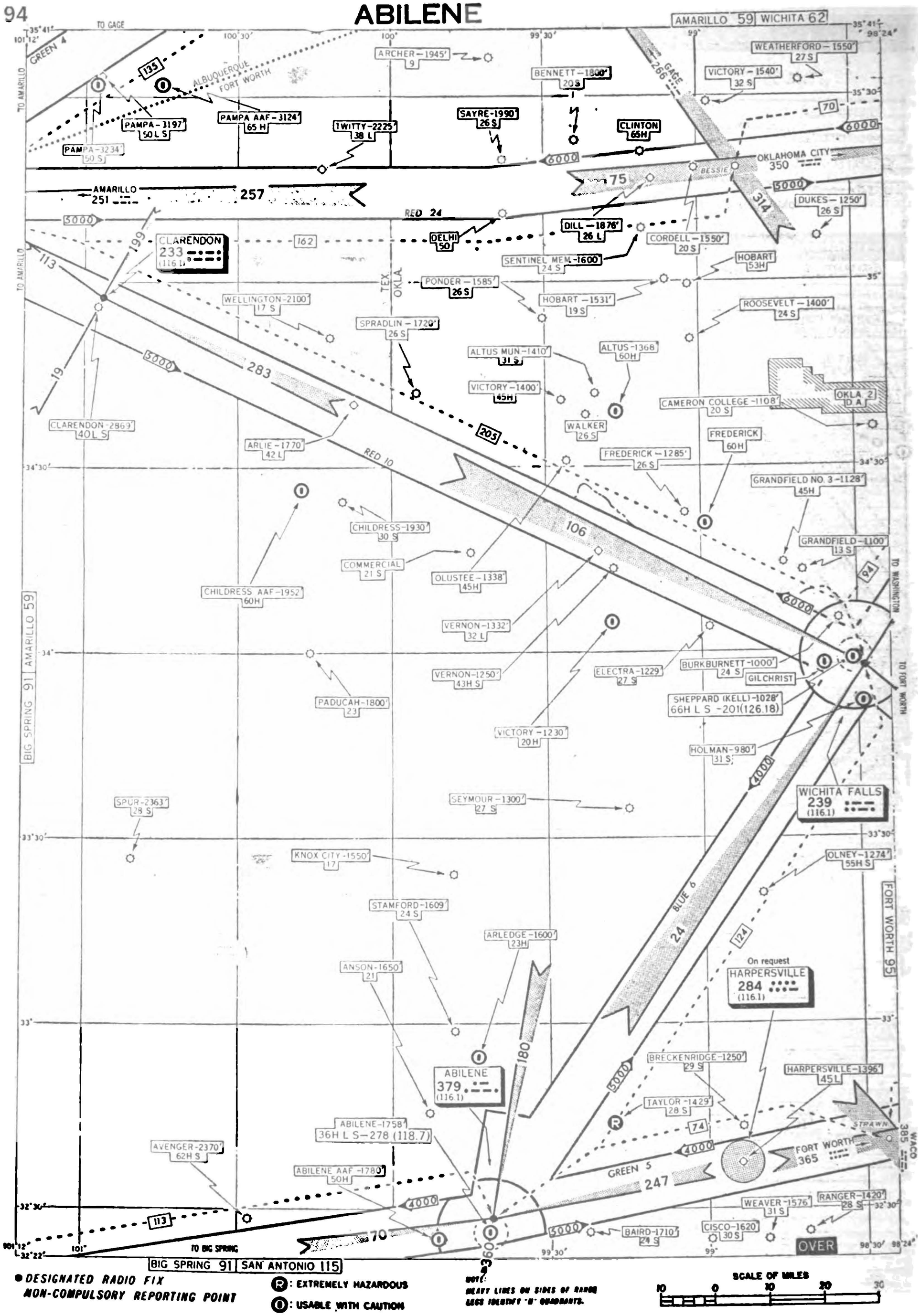
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Altus	3.4 ENE;hwy S	1368	60h	
Altus, mun.	4.2 N;RR W	1410	31 S6	73, 80 oct, Pole lines W.
Archer (Cheyenne)	1.2 SW;hwy E	1945	9 S4	No fuel.
Bennett (Elk City)	2 SSE;RR NE	1800	20 S1	73 oct.Pole line W. Lgt acft only.
Cameron College (Lawton)	2.5 W;RR N	1108	20 S4	80 oct.
Clinton	17 SW;hwy E	1932	65h	
Cordell	1.3 NW;RR E	1550	20 S1	80 oct.
Delhi	2.5 ENE;hwy SW	1937	50	
★ Dill Int, 14, AQ-LS	0.5 NW;hwy N	1876	26 L3	Pole line N, E.
Dukes (Carnegie)	1 NNW;riv S	1250	26 S1	80 oct. Pole line S.
Frederick, mun	2.3 WSW; RR SE	1285	26 S6	73 oct.
Frederick	3.5 SSE	1233	60h	
Grandfield	1.2 SE;RR N	1100	13 S1	73 oct.
Grandfield #3 (A)	3.1 W; RR NE	1128	45h	
Haddock (Erick)	1.4 SW; RR N	2017	34 S1	80 oct. Pole line N, NW.
(P) Hobart	3.8 SE;RR N	1583	53h	
Hobart, mun.	1.5 SW; RR NW	1531	19 S6	73 oct.
Olustee (Altus)	10 SE; riv E	1338	45h	
Ponder (Mangum)	1.6 N;hwy S	1585	26 S2	73, 80 oct.
Roosevelt	0.5 NW;rd N	1400	24 S1	80 oct. Pwr line N.
Sayre	2.3 N;hwy W	1990	26 S4	80 oct.
Sentinel Memorial	0.8 SSW; RR W	1600	24 S1	73 oct.
Spradlin (Hollis)	1 N; hwy S	1720	26 S2	80 oct.
Victory (Altus)	7.2 NW; riv E	1400	45h	
Walker (Altus)	1.6 W; RR E	1400	26 S4	80 oct. Pole line N.
Weatherford	2.7 ENE; RR S	1550	27 S2	80 oct.

TEXAS

(P) ABILENE AIR TERMINAL	2.8 ESE; RR N	1758	36h R2 L5 S6	73,80,91,100 oct.
(A) Abilene AAF (A)	7 WSW; hwy N	1780	50h	INACTIVE.
Anson	0.8 ENE; RR W	1650	21	
Arledge (Stamford)	5 SE; RR SW	1600	23h	Pole line S.
★ Arlie Int, 9, AQ-FV	3.8 SW; hwy SE	1770	42 L3	
(P) Avenger,(Sweetwater)	3.5 W; RR S	2370	62h L5 S1	80 oct.
Baird	3.1 NNE; hwy W	1710	24 S6	73, 80 oct.
Breckenridge	2.5 S; RR E	1250	29 S6	80 oct.
Burkburnett	1 SE; RR SW	1000	24 S2	80 oct. Poles E.
Childress	3.2 ESE; RR NE	1930	30 S4	73, 80 oct.Pole line surrounds fld.
(A) Childress AAF (A)	5.2 W; RR N	1952	60h	INACTIVE.
Cisco	2.5 NNW; lake 2 N	1620	30 S6	80 oct.
Clarendon 4, AQ-FV	3.8 W; RR NE	2869	40 R1 L3 S6	80, 91 oct.
Commercial (Quanah)	1. 8 S; hwy E, N	1568	21 S2	Ltd 80 oct.
Electra	3.6 WNW; RR S	1229	27 S2	80 oct.
Gilchrist (Wichita Falls)	7 WNW; RR S	1020	30 S1	80 oct. Pwr line S.
★ Harpersville Int, 44, EO-FV	9.2 S of Breckenrd	1396	45 R1 L3	
Holman (Wichita Falls)	3.1 SSE; hwy W	980	31 L S6	80, 91 oct. Poles SE, E, NE.
Knox City	0.8 SSE; RR W	1550	17	
(P) Olney	4 WSW; rd S, N	1274	55h S4	80, 91 oct.
Paducah	2.5 ESE; RR NW	1800	23	
Pampa	1 NNE; RR S	3234	50 S6	80, 91 oct. Pole line S.
(A) Pampa AAF (A)	12.3 E	3124	65h	INACTIVE.
★ Pampa Int, 4, AQ-KC	1.9 NE; RR S	3197	50 L3 S1	80, 91 oct.
Ranger	1.5 SSW; RR W	1420	28 S6	80 oct. Pole line NE.
Seymour	1.3 SE; riv SW	1300	27 S1	80 oct.
(A) SHEPPARD/KELL MUN. (Wichita Falls)	5.8 N; hwy W	1028	66h R2 L5 S6	80, 91 oct. INACTIVE.
Spur	2.2 S; RR N	2363	28 S4	80,91 oct.
Stamford	2.5 N; hwy E	1609	24 S2	80 oct.
Taylor (Albany)	1 N; RR SW	1429	28 S2	80 oct.
★ Twitty Int, 8A, AQ-LS	1 SE; hwy W	2225	38 L3	
Vernon	5 N; hwy E	1250	43h S6	73, 80 oct. No sto.
★ Vernon Int, 15, AQ-FV	8.8 NNW; hwy E	1332	32 L3	
Victory (Vernon)	5.9 SSW; hwy E	1230	20h S2	No fuel.
Weaver (Eastland)	1 NE; RR S	1576	31 S6	80 oct.
Wellington	1 SE; hwy W	2100	17 S1	80 oct.Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII) (NC)-Not charted.

ABILENE



● DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

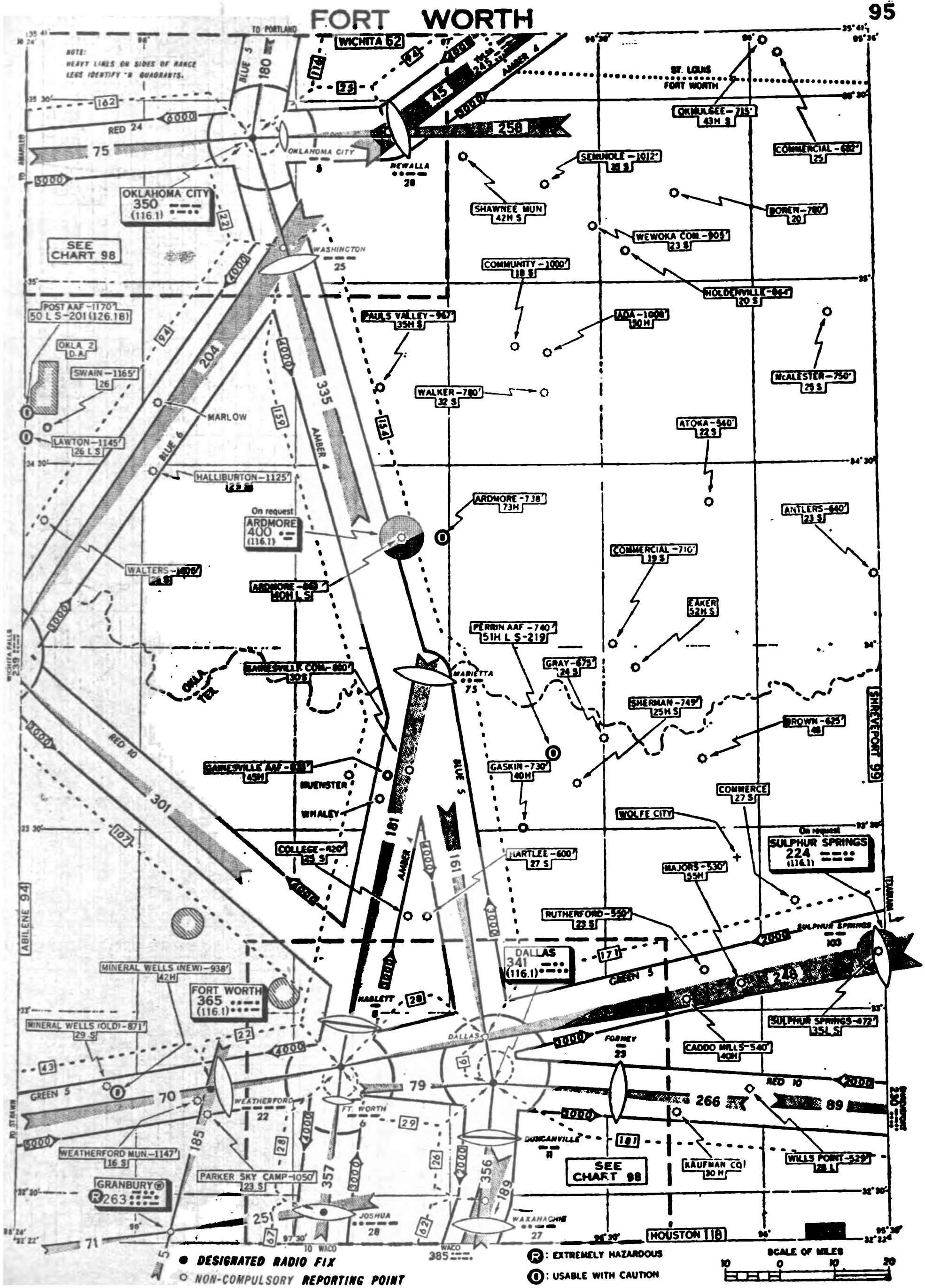
Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" BOUNDARYS.

SCALE OF MILES
10 0 10 20 30

FORT WORTH


NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
TO PORTLAND
WICHITA 62
BLUE 5
180
RED 24
6000
162
75
5000
OKLAHOMA CITY
350
(116.1)
SEE CHART 98
POST AAF - 1170'
50 L S - 201 (126.18)
OKLA 2 D.A.
SWAIN - 1165'
26
LAWTON - 1145'
26 L S
MARLOW
HALLIBURTON - 1125'
On request
ARDMORE
400
(116.1)
WALTERS - 1108'
ARDMORE - 963'
40H L S
WICHITA FALLS
239
OKLA TEX
BARNESVILLE COM. - 880'
30S
BARNESVILLE AAF - 811'
45H
BUENSTER
WHALEY
COLLEGE - 620'
25 S
ABILENE
94
MINERAL WELLS (NEW) - 938'
42H
FORT WORTH
365
(116.1)
MINERAL WELLS (OLD) - 871'
29 S
GREEN 5
WEATHERFORD MUN. - 1147'
16 S
GRANBURY
263
WACO
385
OKLAHOMA CITY
5
REWALLA
28
WASHINGTON
25
4000
204
94
335
AMBER 4
159
134
107
301
RED 10
181
BLUE 5
AMBER 1
HASLETT
28
WEATHERFORD
22
FT. WORTH
6
29
PARKER SKY CAMP - 1050'
23 S
357
JOSHUA
28
67
62
10 WACO
185
356
189
WAXAHACHIE
27
DALLAS
341
(116.1)
171
HOUSTON 18
ST. LOUIS
FORT WORTH
OKMULGEE - 715'
43H S
COMMERCIAL - 692'
25
SEMINOLE - 1012'
35 S
SHAWNEE MUN
42H S
BOREN - 780'
20
WEWOKA COM. - 905'
23 S
COMMUNITY - 1000'
18 S
HOLDENVILLE - 864'
20 S
PAULS VALLEY - 967'
35H S
ADA - 1008'
30 H
WALKER - 780'
32 S
McALESTER - 750'
29 S
ATOKA - 940'
22 S
ANTLERS - 640'
23 S
ARDMORE - 738'
73H
COMMERCIAL - 716'
19 S
EAKER
52H S
PERRIN AAF - 740'
51H L S - 219
MARIETTA
75
GRAY - 675'
24 S
SHERMAN - 749'
25H S
BROWN - 625'
40
GASKIN - 730'
40H
COMMERCE
27 S
WOLFE CITY
On request
SULPHUR SPRINGS
224
(116.1)
HARTLEE - 600'
27 S
MAJORS - 530'
25H
RUTHERFORD - 560'
23 S
SULPHUR SPRINGS
103
SULPHUR SPRINGS - 472'
35 L S
CADDO MILLS - 540'
40H
FORNEY
29
DUNCANVILLE
H
KAUFMAN CO!
30 H
WILLS POINT - 529'
28 L
SHREVEPORT 99
SHREVEPORT
230
266
89
79
70
43
22
28
26
2000
SEE CHART 98
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20

RADIO — OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARDMORE	400 (AT)(116.1)	MHVT	(4); 116.1
MARIETTA FM	(. , -)	FM, 1°, 75	Fort Worth, Texas
NEWALLA FM	(. . - -)	FM, 78°, 27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350 (OL)(116.1)	SBRAZ-VDT,78°,1.6	(4); 116.1
OKLAHOMA CITY LFM	(- -)	LFM, 78°, 5.4	Oklahoma City
POST FIELD (Lawton)	201 (126.18)	CA	(3); 126.18 (7-17 Mon.-Fri.)
WASHINGTON FM	(- - -)	FM, 155°, 24.6	Oklahoma City
TEXAS			
DALLAS (Love)	341 (DL)(116.1)	SBMRAZ-VDT,356Q2.5	(4); 116.1
DUNCANVILLE FM	(- -)	FM, 176°, 10.5	Dallas
FORNEY FM	(-)	FM, 86°, 23	Dallas
FORT WORTH (Meacham Fld)	365 (FV)(116.1)	SBRAZ-VDTX,176°,2.3	(4); 116.1
FORT WORTH LFM	(- - -)	LFM, 177°, 6.2	Fort Worth
GRANBURY	263 (DFV)	MRLWZ	
HASLETT FM	(-)	FM, 1°, 8.1	Fort Worth
JOSHUA FM	(. . - - -)	FM, 177°, 27.7	Fort Worth
PERRIN FIELD (Sherman)	219	CA	(3)
SULPHUR SPRINGS (Int.)	224 (ZP)(116.1)	MHVT	(4); 116.1
SULPHUR SPRINGS FM	(- -)	FM, 68°, 103	Fort Worth
WAXAHACHIE FM	(. . - -)	FM, 176°, 27	Dallas
WEATHERFORD FM	(- - - -)	FM, 250°, 22	Fort Worth

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Ada	2 N, RR SW	1008	50h	
Antlers	2.8 S,RR E	640	23 S2	80 oct.
Ardmore	11.2 NNE,riv E	738	73h	CAUTION: Intensive airline training.
Ardmore 10, FV-WD	9.2 N,hwy E	863	40h R1 L3 S6	80, 91 oct. Poles E.
Atoka	1.8 NW,RR S	540	22 S2	73 oct. Pole line S.
Boren (Wetumka)	1.5 NW,hwy S	780	20	
Commercial (Durant)	5.2 W,RR N	710	19 S2	73 oct. Rnwy data unverified.
Commercial (Okmulgee)	3.4 E,RR N	682	25 S2	Ltd 73 oct. Poles SW.
Community (Ada)	6.8 WNW,RR NE	1000	18 S6	80 oct.
(P) Eaker (Durant)	3.2 SSW,RR NW	703	52h L5 S1	80, 91 oct. All lgts prior req.
Halliburton (Duncan)	1 S, RR E	1125	25 L S4	80,88 oct. Range lgts.
Holdenville	1.2 WNW,RR NE	864	20 S2	73 oct. Pole line N.
Lawton	1.5 S,RR E	1145	26 L2 S4	73 oct.Fld lgts prior req. Poles NW.
Marlow	1.6 N,RR E	1150	15	Pole line S.
McAlester	2 SSE,RR W	750	25 S6	80 oct.
(P) Okmulgee	3 NNE,hwy W	715	43h L5 S6	73,80 oct. Ctc lgts prior request.
(P) Pauls Valley	2.1 S,RR E	967	35h L1 S1	80 oct.
(A) Post (Lawton)(A)	3 N	1170	50 R1 L4 S4	73 oct.; ltd 100 oct.
Seminole	3.4 NNW,hwy E	1012	35 S2	80 oct. Trees W, NW.
(P) Shawnee	2 NW,RR E	1080	42h L5 S2	80, 91 oct. Fld lgts prior req.
(A) Swain (Lawton)(A)	3.5 E,hwy N	1165	26	
Tishomingo (NC)	7.5 N	890	29	
Walker (Ada)	5.4 S,hwy W	860	32 S6	73, 80 oct. Trees sur fld.
Walters	1.2 SW,RR E	1005	26 S2	73 oct. Cattle on field.
Wewoka, com.	1.8 W,lake N	905	23 S6	80 oct. Pole line NNE.
Wewoka, mun. (NC)	4.7 NE,hwy N	790	30	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bowie (NC)	2.8 NW,bet RRs	1050	19	Cattle on fld. Trees N.
Brown (Bonham)	8 N,hwy W	625	48	Pole line S, W.
Caddo Mills(Greenv'l)	10.7 SW,hwy W	540	40h	
College (Denton)	4.2 N	620	25 S6	73 oct. Cattle on field.
Commerce	3.4 NNE,hwy SE	548	27 S6	80, 91 oct.
(A) Gainesville AAF (A)	3.8 WNW,RR S	833	45h	
Gainesville com.	3 NNE,hwy W	800	30 L1 S1	80 oct. Poles S.
(A) Gaskin (Sherman)(A)	12.6 SW,rd E	730	40h L	B-2, flood lgts.
Gray (Denison)	2.5 E,RR N	675	24 L S6	80 oct. Emerg.lgts by circling fld.
Hartlee (Denton)	5.4 NE,RR SSE	600	27 S6	73,80 oct. Poles S.
Jones (Bonham)(NC)	2 NNE,hwy E	616	18h	
Majors (Greenville)	5 SSE,RR W	530	55h	
(P) Mineral Wells, new	3.2 SE,RR N	938	42h	
Mineral Wells, old	1.1 SE,rd W,S	871	29 S6	80 oct.No sto. Pole line WSW.
Muenster	2.6 E,RR S	1010	26 S1	80 oct. Pole line S.
Parker Sky Camp (Weatherford)	3.4 SSE,RR NW	1050	23 S4	80 oct.
(A) Perrin (Sherman)(A)	6.4 NNW,RR N	740	51h R1 L5 S6	73, 91, 100 oct.
Rutherford (Greenv'l)	4.5 WSW,hwy SE	550	23 S3	73 oct. Pole line S.
Sherman	1.4 SE,hwy N	749	25h S6	80 oct.
So.Sulphur (Greenv'l)	9.5 NNE	550	30	(NC)
Sulphur Springs, 7B, DL-LV	1.9 NW,RR S	472	35 R1 L3 S1	80 oct. Pole line S,SE.
Kaufman County (Terrell)	1.5 SE,RR W	490	30h	
Weatherford, mun.	1 W, hwy N	1147	16 S4	80 oct.
Whaley Arpk(Gainesv'l)	5.7 WSW,RR N	820	20 S2	80 oct. Pole line N.
* Wills Point Int,7,FV-AG	5.9 NW	529	28 L3	
Wolfe City	2 N		20 S1	80 oct. Data not verified.

RADIO

OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
NEWALLA FM	(. . - -)	FM,78°,27.5	Oklahoma City
OKLAHOMA CITY	350(OL)(116.1)	SBRAZ-VDT,78°,1.6	(4); 116.1
(Will Rogers Field)			
OKLAHOMA CITY LFM	(- -)	LFM,78°,5.4	Oklahoma City
TINKER, OKLAHOMA CITY	221 (DTE)	BMRAZ	4495
(Army)			
Tinker Field	396 (126.18)	CA;170°,5.3	(3); 126.18
WILL ROGERS FIELD	272 (126.18)	C	(4); 126.18,131.9
(Oklahoma City)			
WASHINGTON FM	(- - -)	FM,155°,24.6	Oklahoma City
TEXAS			
DALLAS (Love Field)	341(DL)(116.1)	SBMRAZ-VDT,356°,2.5	(4); 116.1
DUNCANVILLE	404 (D)	FMK,176°,10.5	Dallas
DUNCANVILLE FM	(- -)	FM,176°,10.5	Dallas
FORNEY FM	(-)	FM,86°,23	Dallas
FORT WORTH	365(FV)(116.1)	SBRAZ-VDTX,177°,2.3	(4); 116.1
(Meacham Field)			
Fort Worth AAF	201 (126.18)	CA	(3); 126.18
FORT WORTH LFM	(- - -)	LFM,177°,6.2	Fort Worth
HASLETT FM	(-)	FM,1°,8.1	Fort Worth
HASLETT	371 (F)	FMK,1°,8.1	Fort Worth
HENSLEY FIELD (Dallas)	396 (126.18)	CA	(4); 126.18
JOSHUA FM	(. . - - -)	FM,177°,27.1	Fort Worth
LOVE FIELD (Dallas)	278 (126.18) (118.9)	AC (ILS)	(4); 118.9,131.9,126.18
MEACHAM FIELD (Fort Worth)	272 (126.18) (118.7)	AC	(4); 142.74,131.9,126.18,118.7
WAXAHACHIE FM	(. - - -)	FM,176°,27	Dallas

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOVE, TEXAS	110.3		140° Mag.	IM	MM ·-·- (.70)	OM - - (4.35)
			360° Mag.		MMK 311 ·-·· (.75)	OMK
MEACHAM, TEXAS				IM	MM	OM
			173° Mag.		MMK 356 ···- (.70)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

OKLAHOMA

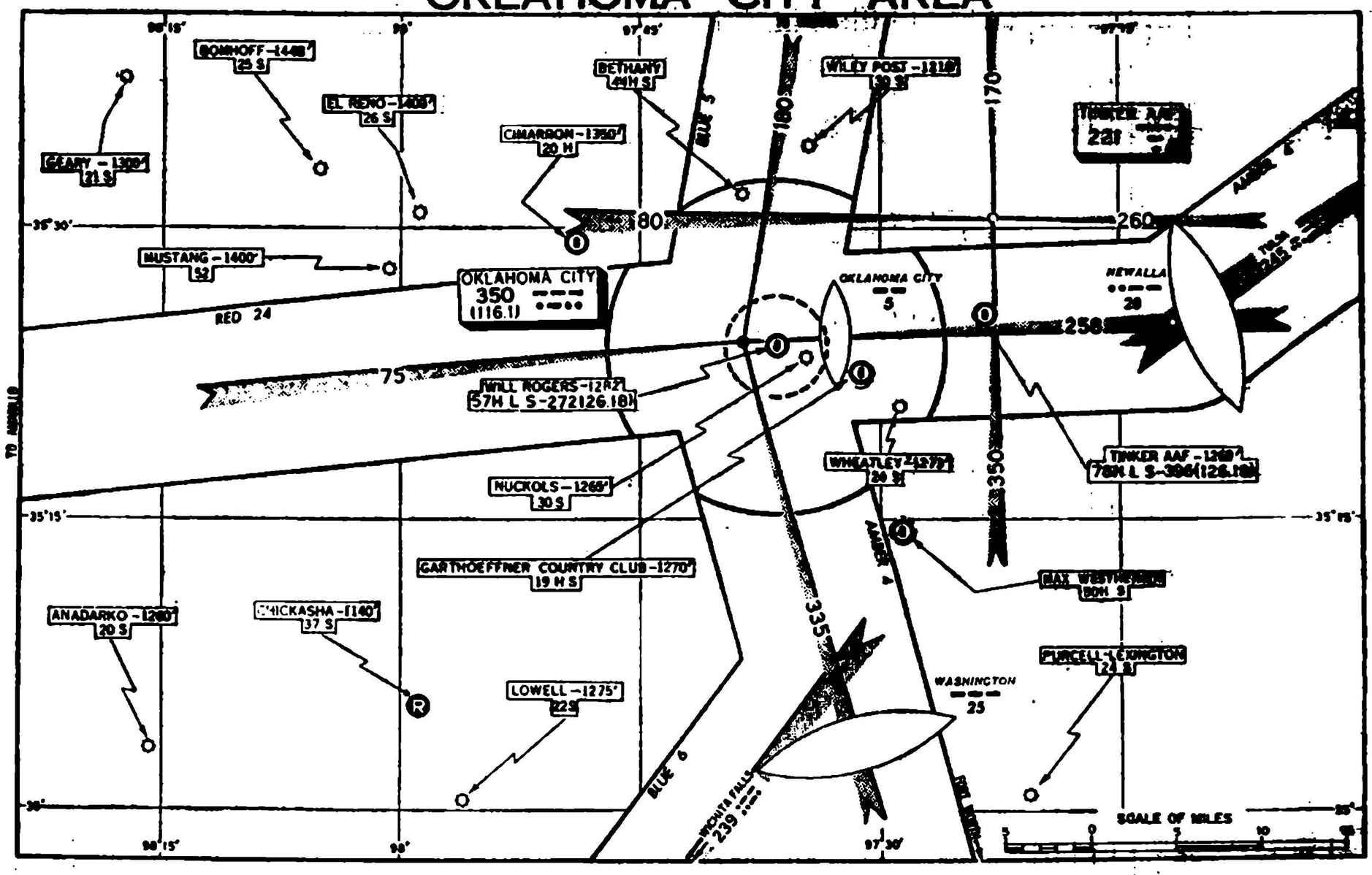
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anadarko	1.5 SW;RR E	1260	20 S1	80 oct.
Bethany (Oklahoma City)	8WNW	1300	44h S6	80,91 oct.Pwr line S.
Bomhoff (Calumet)	4.1 SSE;hwy S	1448	25 S4	73,80,91 oct.
Caddo Flying Ser.(Ft.Cobb)	6 SE;hwy S	1250	16 S2	80 oct.
Chickasha	4 NNW;riv S	1140	37 L S4	80,91 oct.Flood,obst lgts.
Cimarron (Yukon)	4 WSW;hwy N	1350	20h	
El Reno	1.5 SW;RR N	1400	26 S6	80 oct.
Geary	1.4 E;RR N	1300	21 S2	73 oct.
Garthwaffner Co. Club (Oklahoma City)	7.3 S;hwy E	1270	19h S6	80 oct.
Lake View (Yukon)(NC)	2.7 E;RR N	1275	24	PRIVATE.Poles N,S.
Lowell (Chickasha)	2 SSE;RR E	1275	22 S2	80 oct.Pole line W.
Max Westheimer (Norman)	2.7 NW;RR E	1178	50h S2	80,91 oct.
Mustang (El Reno)	5.3 SSW	1400	52	
Nuckols (Oklahoma City)	7.2 SSW;hwy W	1265	30 S6	80 oct.Poles N,W,SW.

OKLAHOMA

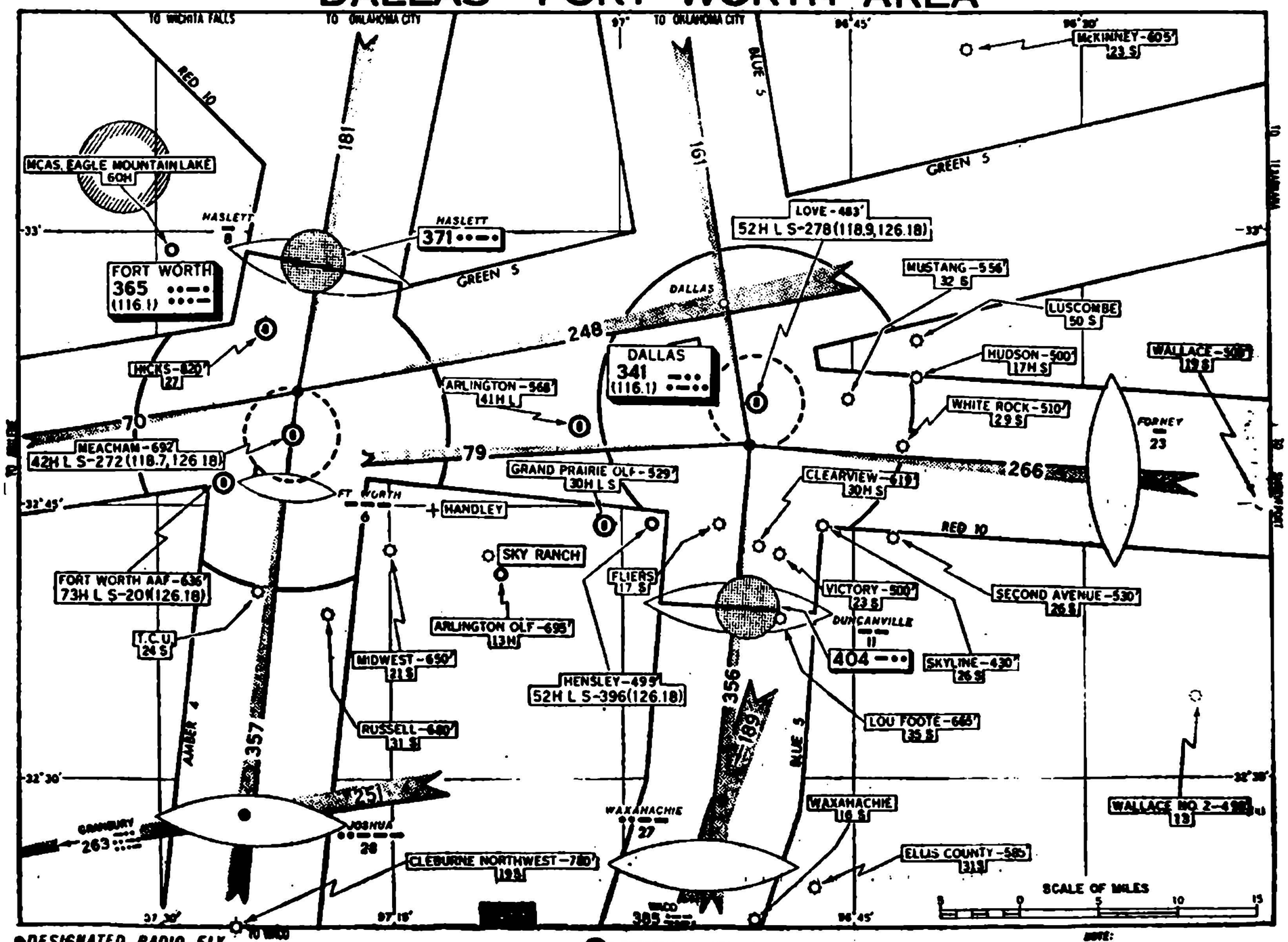
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Purcell-Lexington (Lexington)	0.8 WSW;riv W	1100	24 S2	80 oct.Trees S,SSW,SSE.
(A,N) Tinker (Oklahoma City)	8.5 SE;RR NE	1269	78h R2 L5 S6	62,91,100 oct.JP-1.NAFC. (A)
Wheatley Airpark (Moore)	0.6 NE;hwy W	1273	24 S6	73 oct.
Wiley Post (Oklahoma City)	7.9 NNW;hwy E	1216	30 S6	80,91 oct.Trees S.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.
TEXAS				
(N) Arlington-Midway	6.8 NNE;RR S	568	41h L5	Poles S.
(N) " OLF (N)	4 SSW;rd W	695	13h	
Clearview (Dallas)	5.1 SSW;RR N	619	30h S6	80,91 oct.
Cleburne Northwest	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(N) Eagle Mtn Lake MCAS (Newark) (N)	1 SSE;RR NE	745	60h	INACTIVE.
Ellis Co. (Waxahachie)	3.5 NE;RR S	585	31 S2	73 oct.Pole line S.
Fliers (Dallas)	6.2 WSW;RR W	580	17 S4	80 oct.No sto.Trees S.
(A) Fort Worth AAF (A)	6.8 WNW;lake N	636	73h R1 L5 S6	73,91,100 oct.JP-1.
(N) Grand Prairie OLF (N)	1 WSW;RR N	529	30h L5 S4	73 oct.No bcn.
Handley	0.6 NE;RR S	630	26 S6	73 oct.
(A,N) Hensley (Dallas)(A)(N)	11 WSW;hwy N	495	52h R1 L5 S4	73,91,100 oct.
Hicks (Fort Worth)	12.5 NNW;lk W	820	27	
Hudson (Dallas)	9.6 NE;RR SE	500	17h S6	80,91 oct.Pole line W.
Lou Foote (Dallas)	8.8 S;hwy E	665	35 S6	73,80,91 oct. Bldgs N,NE.
LOVE (Dallas)	5 NNW;RR SW	483	52h R3 L6 S6	73-100 oct. Poles S.
Luscombe (Garland)	2.2 WSW;RR N	610	50 S5	80 oct.No storage.
McKinney	2.1 S;hwy W	605	23 S2	80 oct.Poles E,W.
(P) MEACHAM (Fort Worth)	5.5 NNW;hwy NE	698	42h R2 L6 S6	73,80,91,100 oct.
Midwest (Fort Worth)	5.3 ESE;RR NNE	650	21 S4	80,91 oct.Pole line W,S.
Mustang (Dallas)	6 NNE;hwy NE	556	32 S6	80,91 oct.
(N) Russell (Fort Worth)	7 SSE;RRs E,W	680	31 S6	80,91 oct.
Second Avenue (Dallas)	7 SE;RR N	530	26 S1	73,80 oct.Use strips.Poles S.
Skyline (Dallas)	3.2 SSE;riv E	430	26 S6	80,91 oct. Trees NW.
T. C. U. (Fort Worth)	6.6 SW;RR S	710	24 S2	80 oct.
Victory (Dallas)	4.6 S;hwy W	500	23 S6	73,80 oct.No sto.Pole line E.
Wallace (Terrell)	2 W;RR S	500	19 S2	80 oct.
Wallace #2 (Kaufman)	4 W;hwy W	490	13	
Waxahachie	1.5 SSW;hwys E	595	16 S1	73 oct.
White Rock (Dallas)	6.7 ENE;RR NW	510	29 S6	91 oct.
Sky Ranch (Arlington)	3 SW; RR N	590	25 S2	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII). (NC)-Not charted.

OKLAHOMA CITY AREA



DALLAS - FORT WORTH AREA

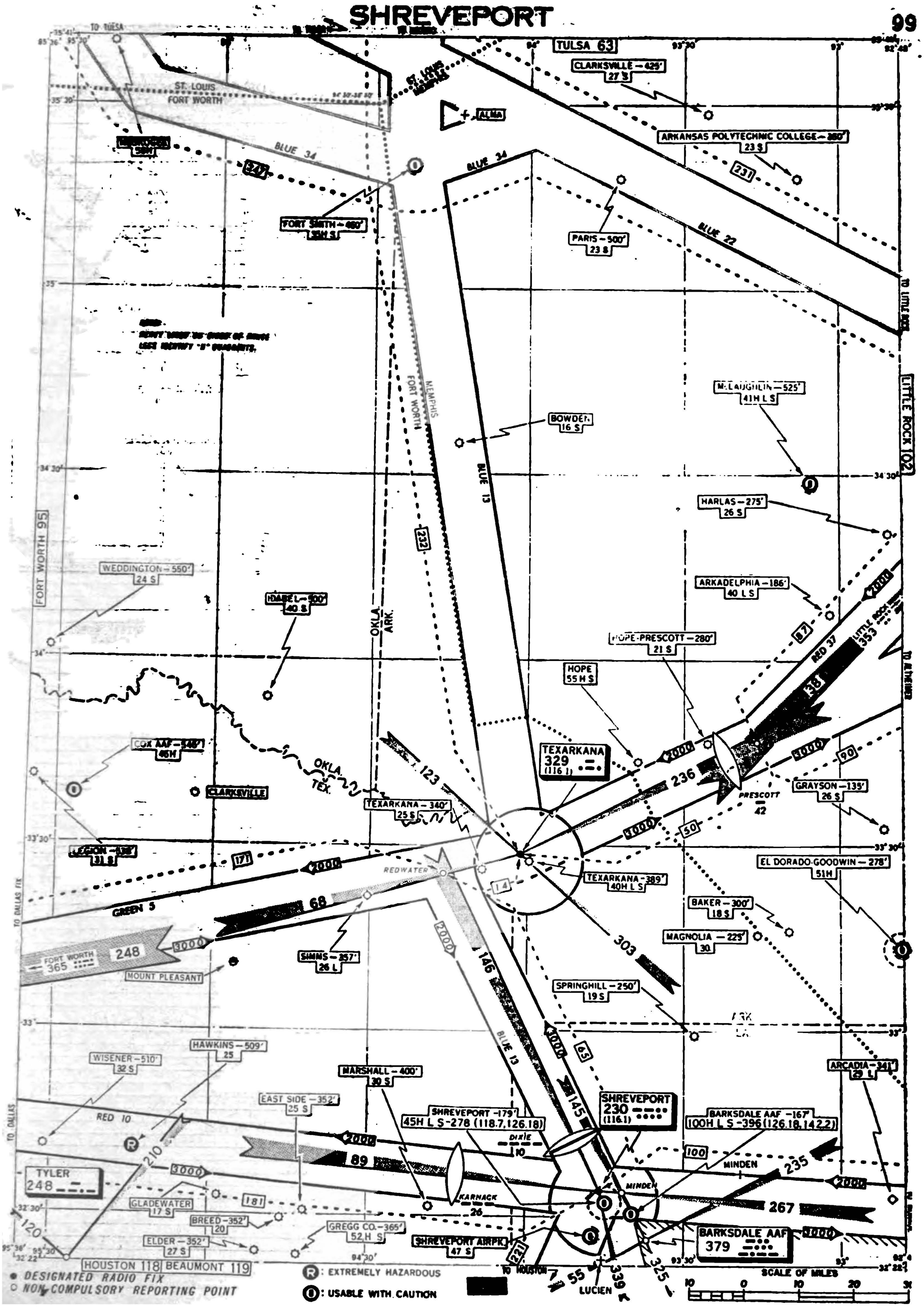


●DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF BLUE LEGS IDENTIFY "B" BOUNDARYS.

SHREVEPORT


TO TULSA
TULSA 63
CLARKSVILLE – 625'
27 S
ST. LOUIS
FORT WORTH
ALMA
ARKANSAS POLYTECHNIC COLLEGE – 380'
23 S
BLUE 34
231
FORT SMITH – 680'
15H S
PARIS – 500'
23 S
BLUE 22
LITTLE ROCK 102
M. LAUGHLIN – 525'
41H L S
BOWDEN
16 S
MEMPHIS
FORT WORTH
BLUE 13
232
HARLAS – 275'
26 S
FORT WORTH 95
WEDDINGTON – 550'
24 S
HOBART – 500'
40 S
OKLA.
ARK.
ARKADELPHIA – 186'
40 L S
HOPE-PRESCOTT – 280'
21 S
HOPE
55 H S
RED 37
353
LITTLE ROCK
TO MEMPHIS
COX AAF – 548'
45H
CLARKSVILLE
OKLA.
TEX.
TEXARKANA
329
(116.1)
123
TEXARKANA – 340'
25 S
GRAYSON – 135'
26 S
PRESCOTT
42
LEGION – 438'
31 S
REDWATER
TEXARKANA – 389'
40H L S
EL DORADO-GOODWIN – 278'
51H
BAKER – 300'
18 S
GREEN 5
68
MAGNOLIA – 225'
30
FORT WORTH
365
248
MOUNT PLEASANT
SIMMS – 357'
26 L
303
SPRINGHILL – 250'
19 S
HAWKINS – 509'
25
WISENER – 510'
32 S
MARSHALL – 400'
30 S
ARCADIA – 341'
29 L
EAST SIDE – 352'
25 S
SHREVEPORT
230
(116.1)
SHREVEPORT – 179'
45H L S-278 (118.7,126.18)
BARKSDALE AAF – 167'
100H L S-396 (126.18,142.2)
DIXIE
10
RED 10
TYLER
248
KARNACK
26
MINDEN
235
267
GLADEWATER
17 S
BREED – 352'
20
GREGG CO. – 365'
52 H S
ELDER – 352'
27 S
SHREVEPORT AIRPK
47 S
BARKSDALE AAF
379
HOUSTON 118
BEAUMONT 119
TO HOUSTON
LUCIEN
339
325
SCALE OF MILES
10 0 10 20
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

SHREVEPORT

RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT FM	(-)	FM, 56°, 42	Texarkana
TEXARKANA	329 (TR)(116.1)	SBRAZ-VDT, 123°, 2	(4); 116.1
LOUISIANA			
BARKSDALE (Shreveport) (Army)	379 (DBY)	SBMRAZ	(3)
Barksdale Field	396 (126.18,142.2)	CA (ILS);325°, 4.4	(3); 126.18,142.2
DIXIE FM	(- - - -)	FM, 326°,10.2	Shreveport
SHREVEPORT	230 (ZH)(116.1)	SBRAZ-VDT	(4); 116.1
Shreveport Airport	278 (126.18)(118.7)	AC; 146°, 1.8	(4); 142.74, 131.9, 118.7, 126.18
TEXAS			
KARNAK FM	(- - -)	FM, 269°,26	Shreveport, La.
TYLER (Pounds)	248 (TQ)	BMRLZ-DT, 120°,1.4	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BARKSDALE, LA.	110.3	335	323° Mag.	IM (.07)	MM (1.00)	OM (4.39)
					MMK	OMK
BARKSDALE, LA.	109.9		143° Mag.	IM (.25)	MM ..... (.64)	OM -- (4.35)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.: Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arkadelphia, 24, DL-LV	1.5 ENE; RR N	186	40 L3 S6	80 oct. Pole line N, NW.
Arkansas Polytechnic (Russellville)	1.3 N; hwy W	350	23 S6	73 oct. Pole line SE.
Baker (Magnolia)	4.3 E; hwy S	300	18 S6	80, 91 oct. Pole line SW.
Bowden (Mena)	1 E; RR NW	1177	16 S1	73 oct.
Clarksville	2.5 E; hwy S	425	27 S1	80 oct. Pole line WSW.
(P) El Dorado-Goodwin (El Dorado)	8.6 W; hwy S	278	51h	
FORT SMITH	4 SSE; RR S	450	35h L3 S6	80 oct. 150' stacks W.
Grayson (Camden)	3.4 SW; RR S	135	26 S6	80, 91 oct. No sto.
Greig (Van Buren) (NC)	4.1 E; RR 1.5 N	450	13	
Harlas (Malvern)	2.1 WSW; RR SE	275	26 S1	73 oct. Power line NE.
Hope	5 NNW; RR E	359	55h L3 S6	80,91 oct.Lgts prior req.Use rnwys.
Hope Prescott (Prescott)	3 SW; RR E	280	21 S6	80 oct.
(P) McLaughlin (Hot Springs)	3 SW; RR N	525	41h L5 S6	80 oct. Bldg. twr N.All lgts prior req.Avail army
Magnolia	1.6 WSW; RR E	225	30	10' bldg SSW. 0800-1600 week days only.
Norman (Ola)	1.8 NNE; hwy E	348	28	Pole line E.
Paris	1.8 NE; RR 1 S	500	23 S1	73 oct. Pole lines W. E. SW.
TEXARKANA	4 NE; RR W	389	40h R1 L5 S6	80. 91. 100 oct.
Alma	1.5 SE		22 S2	80 oct.Data not verified.
LOUISIANA				
★ Arcadia Int. 26 FV-AG	4.5 E; RR S	341	29 L3 S2	No fuel. Pole line SW.
(A) Barksdale (Shreveport)(A)	5.8 E; riv W	167	100hR3 L6 S4	73, 91, 100 oct. JP-1.
Cross Lake (Shreveport)	7 WNW; RR NE	210	40	CAUTION. Data not verified.
Lucien (Shreveport)	7 S	205	31 S4	80 oct. Data not verified.
Minden	1.5 W	200	24 S4	80 oct. Data not verified.
Northeast Aviation (Bastrop)	2 WSW	90	17 S4	80 oct. No sto. Data not verified.
(P) SHREVEPORT	2.5 NNE; riv E	179	45h R2 L5 S6	73, 80 oct.
Springhill	1.2 S; RR E	250	19 S1	73 oct. Pole line E, N.
Shreveport Airpark	4.5 SSW; bet RRs	300	47 S6	80 91 oct. Pole line SE.
OKLAHOMA				
Heavener (NC)	2 N; hwy W	575	27	
Idabel	1.3 NW; RR E	500	40 S2	80 oct.
(P) Muskogee	5.5 S; RR W	610	56h	Hill SW.
Nashoba (NC)	0.8 SE; riv S	625	13	PRIVATE.
Poteau (NC)	1.5 SSW; hwy W	460	15	
Weddington (Hugo)	1.9 NW; hwy SW	550	24 S1	80 oct. Pole line E.
TEXAS				
Breed (Longview)	2 W; RR N	352	20	Pole line around fld.
(A) Cox AAF (Paris)(A)	6.5 ESE; RR N	546	46h	INACTIVE.
East Side (Longview)	2.4 NE; RR S	352	25 S6	80, 91 oct. Pole line S.
Elder (Kilgore)	2.5 NE; RR E	352	27 S6	80, 87, 91 oct. Pole line W.
Oladewater	2 WNW; RR S	550	17 S6	73 oct. No sto. Pole line N, S.
(F) Gregg County (Longview)	7.2 S; riv N	365	52h S1	80, 91 oct.
Holmes (Gilmer)(NC)	4 N; RR W	370	23	Pole line W. Cattle on fld.
Legion (Paris)	1.9 NW; RR E	538	31 S6	80 oct. Pole line E.
Marshall	3.9 SE; hwy N	400	30 S6	73 oct. Pole line N.
★ Simms Int, 14, DL-LV	1 NE; hwy E	357	26 L3	Pole line E, S.
Texarkana	6 W; RR N	340	25 L S6	80, 91 oct.
Wisener (Mineola)	1.5 NW; hwy S	510	32 S2	73 oct.
Clarksville	2.8 NNW;RR SW	480	20 S6	73,80 oct.
Mt.Pleasant	2.8 ENE;RR S	393	20 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADAMS FIELD (Little Rock)	278 (126.18)(118.5)	C	(4); 126.18, 118.5, 131.9, 142.74
BRUINS FM	(- - - -)	FM. 240°, 24	Memphis, Tenn.
LITTLE ROCK (Adams Field)	353 (LI)(116.1)	SBRAZ-VDT. 313°, 3.9	(4); 116.1
STUTTGART (AAF)	269 (DSA)	MRLWZ. 173°, 4.7	
LOUISIANA			
MONROE (Selman)	359 (UO)(116.1)	SBMRLZ-VDT. 25°, 2.8	(4); 116.1
MISSISSIPPI			
FLORA FM	(-)	FM. 356°, 13	Jackson
GREENWOOD	281(GD)(116.1)	BMLZ-VDT. 265°, 1.9	(4):116.1
JACKSON	260 (JA)(116.1)	SBRAZ-VDT. 173°, 2.4	(4); 116.1
NESBITT FM	(- - -)	FM. 179°, 9.4	Memphis, Tenn.
VICKSBURG	382 (VS)(116.1)	MHVT	(4); 116.1
TENNESSEE			
CUBA FM	(-)	FM. 356°, 20.5	Memphis.

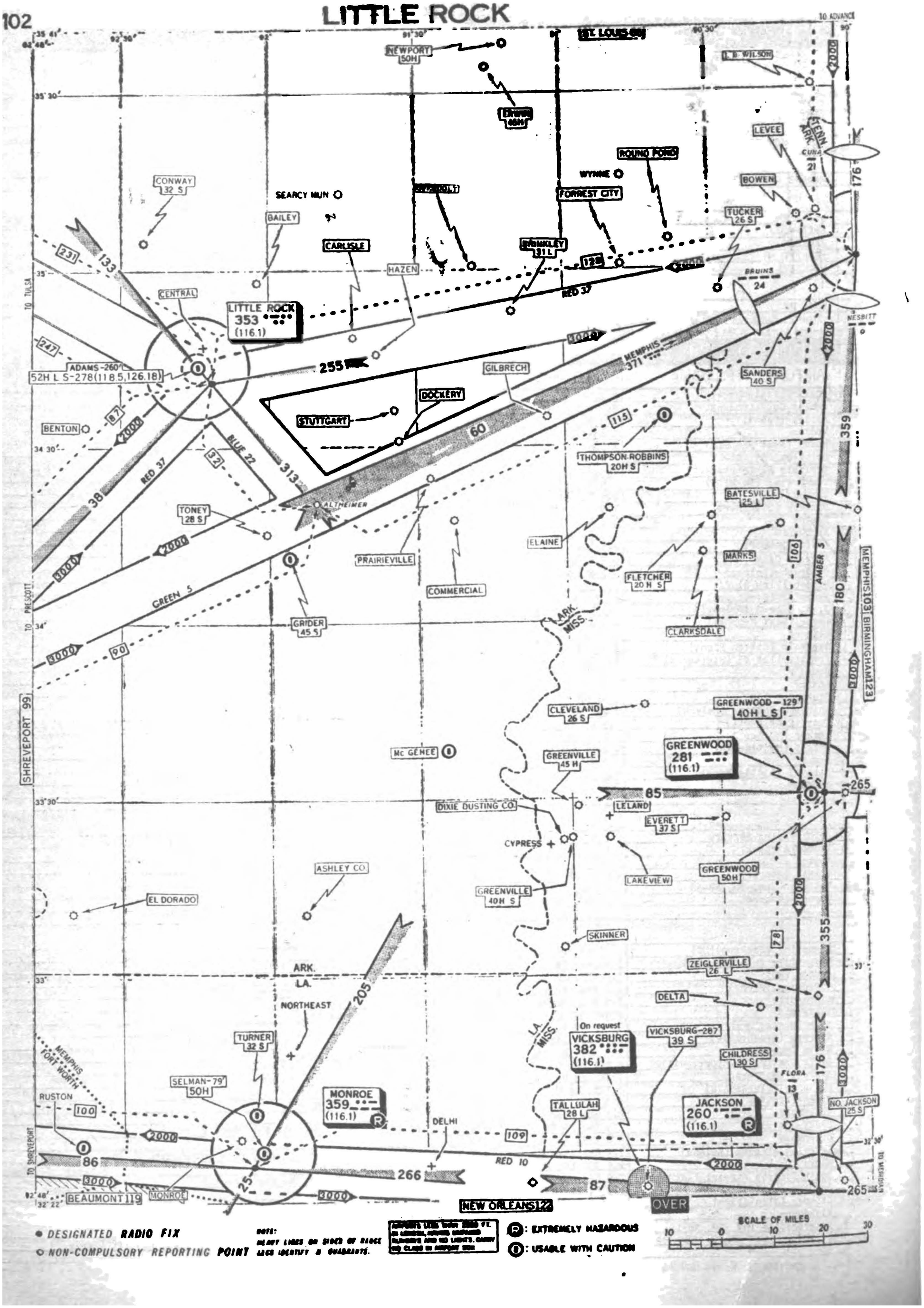
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

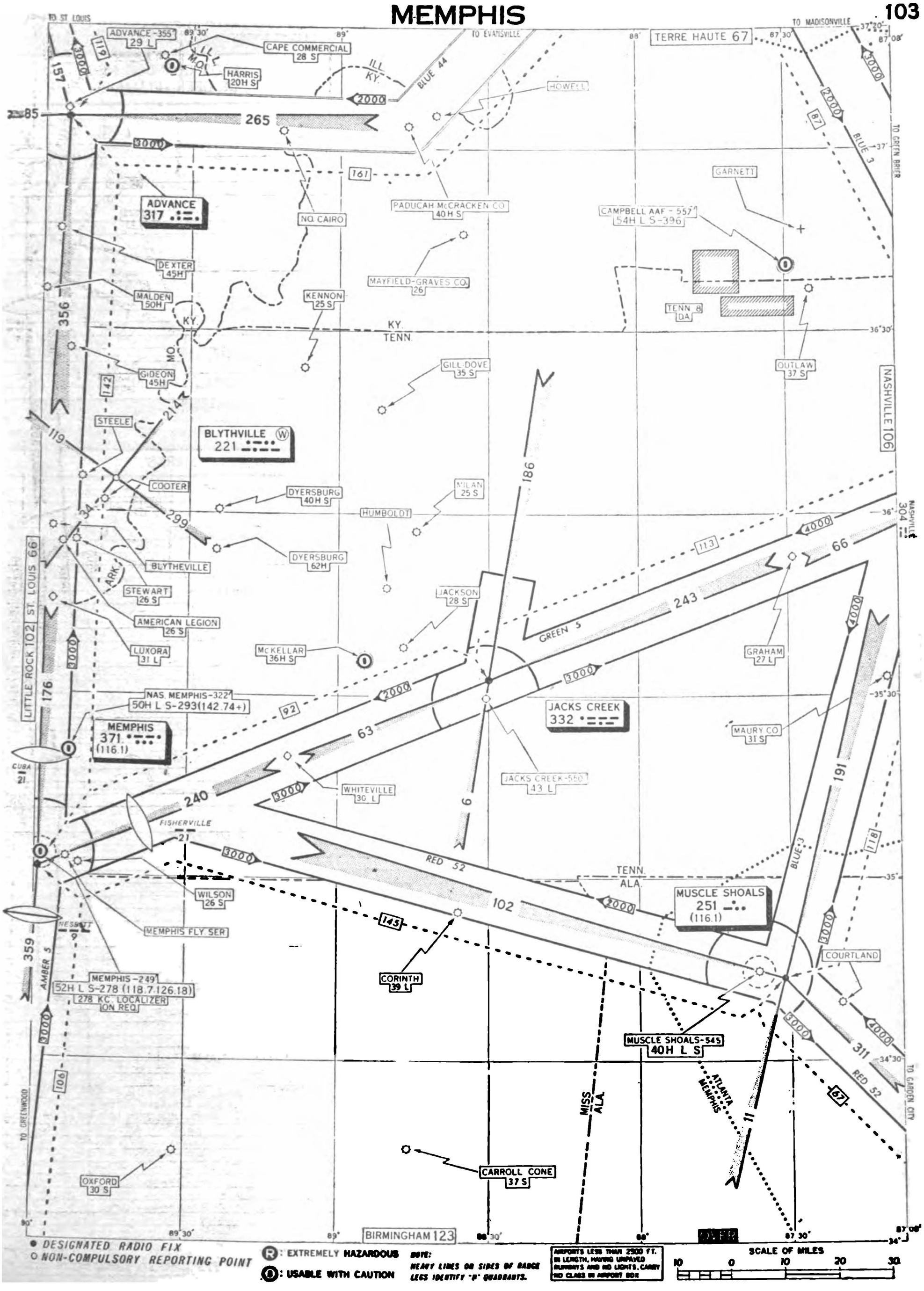
AIRPORTS — ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ADAMS (Little Rock)	4 E; RR W	260	52h R2 L5 S6	80,91 oct; 73,100,JP-1 mil acft.
Ashley Co. (Crossett)	5.5 NE; RR E	160	21 S1	Ltd 80 oct. Obsts surround fld.
Bailey (Cabot)	0.5 W; RR E	270	16 S1	80 oct. Trees sur fld.
Benton	1.6 W; RR S	300	20 S6	80 oct. Poles S.
Bowen (West Memphis)	1.5 W; hwy N	215	17 L S6	80 oct. Flood lgts. Poles SE.
Brinkley, 37, DL-LV	1 E; RR N	188	31 L3	Obst NW.
Carlisle #1 (Stuttgart)	26 NW; RR S	236	45h	
Commercial (De Witt)	2.4 W; RR N	196	24 S4	80 oct. Pole line E.
Conway	1.5 SE; hwy W	309	32 S6	80 oct.
Dockery (Stuttgart)	1.5 NNW	214	24 S2	73, 80 oct. Pole line N, S, E.
Elaine	1.3 N; RR E	170	18 S2	80 oct. Trees S, SE.
EL DORADO	1.5 S; RR W	265	24 S4	80 oct.
Erwin (Newport)	2.5 SSE	220	45h	
Forrest City	0.7 W; hwy SE	226	22 S2	80 oct. Bldg S.
Gilbrech (Palmer)	0.2 NE; RR S	178	17 S2	80 oct. N/S strip rough. Poles W.
Grider (Pine Bluff)	5.5 SE; hwy N	210	45 S6	73, 80 oct.
Hazen #2 (Stuttgart)	18.7 NNW; RR N	225	45h	
J. B. Wilson (Joiner)	0.5 ENE; hwy W	225	15	Trees NE.
Levee (West Memphis)	2.4 E; RR N	215	24 S4	Ltd 73 oct. Pole line N, S.
Newport	6 ENE; hwy N	237	50h	
Overholt (Cotton Plant)	3 W; RR NE	250	18 S1	Ltd 80 oct.
Prairieville #5 (Stuttgart)	8.2 SE	205	45h	
Round Pond	1.5 NNW; hwy N	200	22 S2	80 oct.
Searcy	2.8 S; RR E	260	14 S1	80 oct. Pole line NE, SE.
Stuttgart AAP	7 N; RR E	230	50h	
Thompson-Robbins (Helena)	6 NW; RR S	242	20h S6	73, 80 oct.
Tony (Pine Bluff)	2.5 N; hwy W	215	28 S2	73, 80 oct. Twr NW lgtd.
Tucker (Hughes)	1.1 S; RR W	205	26 S2	80 oct.
Wright (Monticello)	1 ENE; hwy S	230	15	Pole line S.
Wynne	3.2 N; RR E	212	17 S2	80 oct. Pole line E, SE.
Central (Little Rock)	4.5 NE; RR S	255	35 S4	80 oct. Trees W. Data not verified.
McGehee	0.6 NNW; RR, hwy E	145	30 S1	80 oct.
LOUISIANA				
Delhi Flying Service	0.5 N	95	23 S4	80 oct. Pole line E. Data not verified.
Monroe Airpark	2.5 N; riv W	77	20 S4	73 oct.
Ruston	1 SW	320	15h S4	80 oct. Data not verified.
SELMAN (Monroe)	4.6 E; RR N	79	50h R1	
★ Tallulah Int, 36, FV-AG	2.4 ENE; RR S	84	28 L3	Beacon S.
Turner (Monroe)	9.5 NNE; RR E	85	32 S4	91, 80 oct. Pole line E.
MISSISSIPPI				
Augustine (Jackson)(NC)	11.5 NE; riv SE	335	40	
★ Batesville Int, 29, MO-LS	3 W; hwy SE	205	25 L3	Poles N, lgtd.
Canton (NC)	1.4 WNW; RR E	300	38	Tank E.
Childress (Flora)	1.5 NNW; RR E	186	30 S1	73 oct. Trees, bldg N.
Clarksdale	1.5 SE; hwy NW	175	22 S6	73 oct. Use strips only
Cleveland	2 NW; hwy S	400	26 S6	73 oct.
Cole (Meads) (NC)	3 NE; RR W	118	16	
Cypress (Greenville)	1.5 SSW; lake E	120	28 S1	80 oct. Data not verified.
Delta (Yazoo)	3.3 NNE; RR SE	115	21 S1	73 oct. Pole line N
Dixie Dusting Co. (Greenville)	2 SE; RR, hwy N	118	16 S4	73 oct. No sto.
Everett (Moorhead)	1 SE; RR N	127	37 S6	73 oct. No sto.
Fletcher (Clarksdale)	8 NNE; RR W	175	20h S6	No fuel or sto.
Greenville, mun	3.5 ESE; hwy N	118	40h S1	80,91 oct.
Greenville	6.5 NE; road W	131	45h	
GREENWOOD, mun.	2.3 SW; RR SE	129	40h R1 L5 S2	73, 80 oct. Pole line E, SE.
Greenwood	5.8 ESE; hwy N	162	50h	
Lakeview Airpark (Leland)	1.7 SE; lake E	120	18 S4	73 oct. No sto. Data unverified.
Marks	1.5 NW; hwy N	106	22 S1	73 oct.
North Jackson Airpark (Jackson)	7.5 NE; hwy E	300	25 S4	80 oct. No sto. Trees S.
Sanders (Walls)	1.8 S; hwy NW	210	40 S6	73, 80 oct. Trees E.
Skinner (Glen Allan)	4 N; lake W	110	18 S1	73 oct.
Vicksburg	6.8 NE; hwy W	287	39 R1 S4	80, 91 oct.
★ Zieglerville Int, 19, MO-LS	3 SW; riv N	248	26 L2	Twr SE. Trees E, S, SE.
Leland	3 NNE		23 S4	80 oct. No sto. Pwr line NW. Data not verified

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

LITTLE ROCK


10 ADVANCE
ST LOUIS 88
NEWPORT 50H
L B WILSON
ERWIN 48H
LEVEE
ROUND POND
WYNNE
CONWAY 32 S
SEARCY MUN
BAILEY
WYNNE 21
FORREST CITY
BOWEN
TUCKER 26 S
CARLISLE
HAZEN
BRINKLEY 31 L
128
BRUINS 24
RED 37
CENTRAL
LITTLE ROCK 353 (116.1)
NESBITT
MEMPHIS 371
GILBRECH
ADAMS-260
52H L S-278(118.5,126.18)
DOCKERY
SANDERS 40 S
STUTTGART
BENTON
BLUE 22
313
60
115
THOMPSON-ROBBINS 20H S
ALTHEIMER
BATESVILLE 25 L
TONEY 28 S
ELAINE
PRAIRIEVILLE
COMMERCIAL
FLETCHER 20 H S
MARKS
106
AMBER 3
359
GREEN 5
GRIDER 45 S
ARK. MISS.
CLARKSDALE
MEMPHIS 103 BIRMINGHAM 123
CLEVELAND 26 S
GREENWOOD — 129 40 H L S
GREENWOOD 281 (116.1)
Mc GEHEE
GREENVILLE 45 H
85
265
DIXIE DUSTING CO.
LELAND
EVERETT 37 S
CYPRESS
ASHLEY CO.
GREENWOOD 50H
LAKEVIEW
EL DORADO
GREENVILLE 40H S
SKINNER
355
78
ZEIGLERVILLE 26 L
ARK. LA.
DELTA
NORTHEAST
205
On request
VICKSBURG 382 (116.1)
VICKSBURG-287 39 S
CHILDRESS 30 S
TURNER 32 S
LA. MISS.
MEMPHIS FORT WORTH
SELMAN-79 50H
MONROE 359 (116.1) R
TALLULAH 28 L
JACKSON 260 (116.1) R
FLORA 13
176
NO. JACKSON 25 S
RUSTON
100
DELHI
109
RED 10
86
266
87
25
BEAUMONT 119
MONROE
NEW ORLEANS 122
OVER
SHREVEPORT 99
TO PRESCOTT
TO SHREVEPORT
TO MERIDIAN
SCALE OF MILES
10 0 10 20 30
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF BLOCK ALSO IDENTIFY A BOUNDARY.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION


TO ST LOUIS
ADVANCE-355
29 L
CAPE COMMERCIAL
28 S
HARRIS
20H S
ILL
MO
ILL
KY.
BLUE 44
TO EVANSVILLE
TERRE HAUTE 67
TO MADISONVILLE
HOWELL
157
119
3000
2000
85
265
87
BLUE 3
TO GREEN BRIER
161
ADVANCE
317
NO. CAIRO
PADUCAH McCRACKEN CO.
40H S
GARNETT
CAMPBELL AAF - 557
54H L S-396
DEXTER
45H
MAYFIELD-GRAVES CO.
26
MALDEN
50H
KENNON
25 S
TENN. 8
DA
KY.
TENN.
356
KY.
MO
GIDEON
45H
142
214
GILL-DOVE
35 S
OUTLAW
37 S
NASHVILLE 106
STEELE
119
BLYTHVILLE
221
COOTER
DYERSBURG
40H S
MILAN
25 S
HUMBOLDT
186
34
299
DYERSBURG
62H
BLYTHEVILLE
ARK.
LITTLE ROCK 102
ST. LOUIS 66
STEWART
26 S
AMERICAN LEGION
26 S
LUXORA
31 L
JACKSON
28 S
McKELLAR
36H S
GREEN 5
GRAHAM
27 L
NAS. MEMPHIS-322
50H L S-293(142.74+)
MEMPHIS
371
(116.1)
JACKS CREEK
332
MAURY CO.
31 S
176
92
63
240
WHITEVILLE
30 L
JACKS CREEK-550
43 L
6
191
CUBA
21
FISHERVILLE
21
RED 52
TENN.
ALA.
MUSCLE SHOALS
251
(116.1)
BLUE 3
WILSON
26 S
NESBITT
9
MEMPHIS FLY SER
359
AMBER 5
CORINTH
39 L
MEMPHIS-249
52H L S-278 (118.7-126.18)
278 KC. LOCALIZER
ON REQ.
MUSCLE SHOALS-545
40H L S
ATLANTA
MEMPHIS
311
COURTLAND
TO GREENWOOD
106
OXFORD
30 S
CARROLL CONE
37 S
MISS
ALA.
BIRMINGHAM 123
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
NOTE:
HEAVY LINES OR SIDES OF BADGE
LEGS IDENTIFY "R" QUADRANTS.
AIRPORTS LESS THAN 2500 FT.
IN LENGTH, HAVING UNPAVED
RUNWAYS AND NO LIGHTS, CARRY
NO CLASS OR AIRPORT SIGN
SCALE OF MILES
10 0 10 20 30

MEMPHIS

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
MUSCLE SHOALS	251 (ED)(116.1)	SBRAZ-VDT, 282°, 4.5	(4); 116.1
ARKANSAS			
BLYTHEVILLE	221 (LY)	RLWZ, 225°, 13.6	
KENTUCKY			
CAMPBELL AAF (Hopkinsville)	396	CA	(3) (A-17)
MISSISSIPPI			
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
MISSOURI			
ADVANCE (Int.)	317 (AP)	SBMRAZ-DT, 354°, 1.5	(4)
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis
FISHERVILLE FM	(- -)	FM, 60°, 20.5	Memphis
JACKS CREEK (Int.)	332 (JK)	BMRLZ-DT, 186°, 2.62	(4)
MEMPHIS	371 (PS)(116.1)	SBRAZ-VDT.	(4); 116.1
Memphis Airport	278 (126.18)(118.7)	AC; 356°, 2.1	(4); 131.9, 126.18, 118.7
Memphis Airport	278	MLW	(On request only)
Memphis NAS	293 (142.74)	CN	3105; 142.74 (6-24)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Courtland AAF	1.5 SW; RR N	567	50h	
Muscle Shoals	1.5 E; dam NNW	545	40h R1 L5 S6	80, 91 oct.
ARKANSAS				
American Legion (Blytheville)	1.5 ESE; RR N	260	26 S6	80 oct. Pole line N. W. Stack E.
Cooter #4 (Blytheville)	10 NE	260	40h	
★ Luxora Int, 39, NO-LS	1 WNW; hwy S	240	31 L2	
Steele #1 (Blytheville)	12.3 N	258	40h	
Stewart (Blytheville)	2.2 E; RR S	254	26 S2	80 oct.
Blytheville	3 NW; RR SW	254	50h	
ILLINOIS				
North Cairo (Cairo)	3 NNW; RR E	312	24 S4	73 oct.
KENTUCKY				
(A) Campbell AAF (Hopkinsville)(A)	12.8 S; RR E	557	54h R1 L5 S4	100 oct.
Garnett (Hopkinsville)	6 SSE; hwy W		23 S1	80 oct. Data not verified.
Howell (Paducah)	4 WNW; RR S	371	21 S6	80 oct.
Mayfield-Graves County	3.6 ENE; hwy S	543	26	
PADUCAH-McCRACKEN CO. (Paducah)	8.8 W; RR N	405	40h S6	80, 91 oct. No sto.
MISSISSIPPI				
Carroll Cone (Tupelo)	3 W; hwy S	278	37 S1	80 oct.
Corinth 7, PS-TM	5 WSW; hwy N	418	39 L3	
Oxford	8 S; riv N, W	400	30 S2	73 oct.
MISSOURI				
★ Advance Int, 48, NO-LS	0.8 WSW; RR S	355	29 R1 L3	
Cape Commercial (Cape Girardeau)	4.8 SW; RR S	340	28 S6	80,91 oct. 8' dike S.
Dexter (Malden)	12.5 NNE	315	45h	
Harris (Cape Girardeau)	6.5 SSW; hwy E	340	20h S6	80, 91 oct.
Harvey Parks (Sikeston)	2 NE; RR S	315	66	Pole line W. Allway area.
Malden	3.5 NW; RR E	296	50h	
Gideon (Malden)	1 SE of Gideon	268	45h	
TENNESSEE				
Dyersburg	9 S; RR E	289	62h	
Dyersburg, mun.	2 SW; riv N	337	40h S4	80 oct. No sto.
Embry Riddle (Union City)	5 ESE; riv WNW	340	18h	Allway: 4620 x 3960'.
Gill-Dove (Martin)	3.5 S; hwy E	416	35 S6	80 oct.
★ Graham Int, 59, DL-LV	1.5 NW; hwy E	536	27 L3	
Humboldt	4.6 ESE; hwy W	380	15 S1	80 oct.
★ Jacks Creek Int, 53, DL-LV	2 N; hwy E	550	43 R1 L3	
Jackson	2.5 ENE; hwy NW	450	28 S6	80 oct.
Kennon (Union City)	3.2 WSW; hwy N	350	25 S6	80 oct. No sto. Pole line N.
(P) McKellar (Jackson)	5.8 W; RR S	410	36h S6	80 oct.
Maury County (Mt. Pleasant)	2.5 ENE; RR SW	672	31 S2	80 oct. Pole line NW.
(A) MEMPHIS	5.9 SSE; RR NE	249	52h R2 L6 S6	73, 91, 100 oct. JP-1. Radio required.
Memphis Flying Service (Memphis)	11 SE; RR 3 NW	286	35 L4 S6	80,91 oct. Pole line S. No ben. Lgts prior req.
(N) Memphis NAS (N)	16 NNE; RR NW	322	50h R1 L5 S6	91, 100 oct, NATS. Rnyw, lgtg info not ver.
Milan	2.8 NNE; RR SE	421	25 S5	80, 91 oct.
Outlaw (Clarksville)	7.4 NNW; RR W	550	37 S5	80 oct.
Wilson (Memphis)	11.5 SE; hwy W	320	26 S6	73 oct.
★ Whiteville Int, 49, DL-LV	0.6 NNW; RR E	494	30 L3	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

NASHVILLE

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GARDEN CITY FM	(. . -)	FM, 358°, 28	Birmingham
		KENTUCKY	
BOWLING GREEN	368 (BA)	SBMRAZ-DT, 296°, 3.8	(4)
		TENNESSEE	
BERRY FIELD (Nashville)	278(118.3,126.18)	AC (ILS)	(4);131.9,142.74,118.3,126.18
CHATTANOOGA	341 (CB)(116.1)	SBRAZ-VDT	(4);116.1
Chattanooga-Lovell Field	278	C, 203°, 3	(4)
FAIRVIEW FM	(- - -)	FM, 246°, 28	Nashville
GREEN BRIER FM	(- - - -)	FM, 331°, 23	Nashville
KINGSTON FM	(- - - -)	FM, 276°, 27.5	Knoxville
NASHVILLE (Berry)	304 (NA)	SBRAZ-DT, 246°, 2.6	(4)
SMITHVILLE (Int)	347 (XM)	SBMRAZ-DT, 177°, 1.4	(4)
SMYRNA AAP (Nashville)	219 (126.18)	CA (ILS)	(3);126.18
WALTERHILL FM	(- -)	FM, 129°, 19.6	Nashville

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BERRY, TENN.	109.9		14° Mag.	IM (.15)	MM (.81)	OM (4.17)
					MMK	OMK
SMYRNA AAP, TENN.	109.5	335	230° Mag.	IM (.04)	MM ..... (.81)	OM -- (4.31)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertville	1 NW;RR NE	1065	15 S1	80 oct.
Athens	3.2 NNW;hwy E	690	26 S2	80 oct. Lgt acft only.
Beaver Dam (Decatur)(NC)	7 E;RR W	580	20	
Centre (NC)	0.6 NNW;RR E	720	23	
Cullman	5 SSE;RR E	740	15 S2	73 oct.
Decatur	4 WNW;hwy N	577	19	Pwr line N.
Gadsden	1.9 SW;hwy N	540	20 S2	80 oct. Fld rough.
Guntersville Dam (NC)	9.1 NW;hwy E	600	30	
Hartselle	1 WSW;hwy N	588	18	
HUNTSVILLE	3.1 S;RR E	610	40h S1	80 oct.
(A) Arsenal (A)	7 SW;RR NW	677	56h	
North Sauty Base (Scottsboro)	3.2 SSW;RR NNE	610	20 S1	80 oct.
Pryor (Decatur)	4 NNE;hwy W	588	46 S4	80,91 oct.

GEORGIA

Cedartown	1 W;road S	850	25 S4	80 oct. Pole lines N,W; hill SW.
Clevenger's Airpark (Marietta)	5 NE;RR W	1080	14 S4	Ltd 80 oct. No storage.
Dalton	5.7 ESE	700	22 S1	80 oct.
Felton (Cartersville)	2.5 N	790	23	Hills S,W,N; wires E,W.
Jasper	1 N;RR W	1935	17 S2	80 oct.
La Fayette-Trion (Trion)	3 NNE;RR W	722	21 S1	80 oct. Hwy E.
Rockmart	2 ENE;RR W	800	20 S1	80 oct. Pole line W.
Rome	3 NW;RR S	669	25 S6	80 oct. No storage.
(P) Russell (Rome)	7 N;hwy W	644	45h	

KENTUCKY

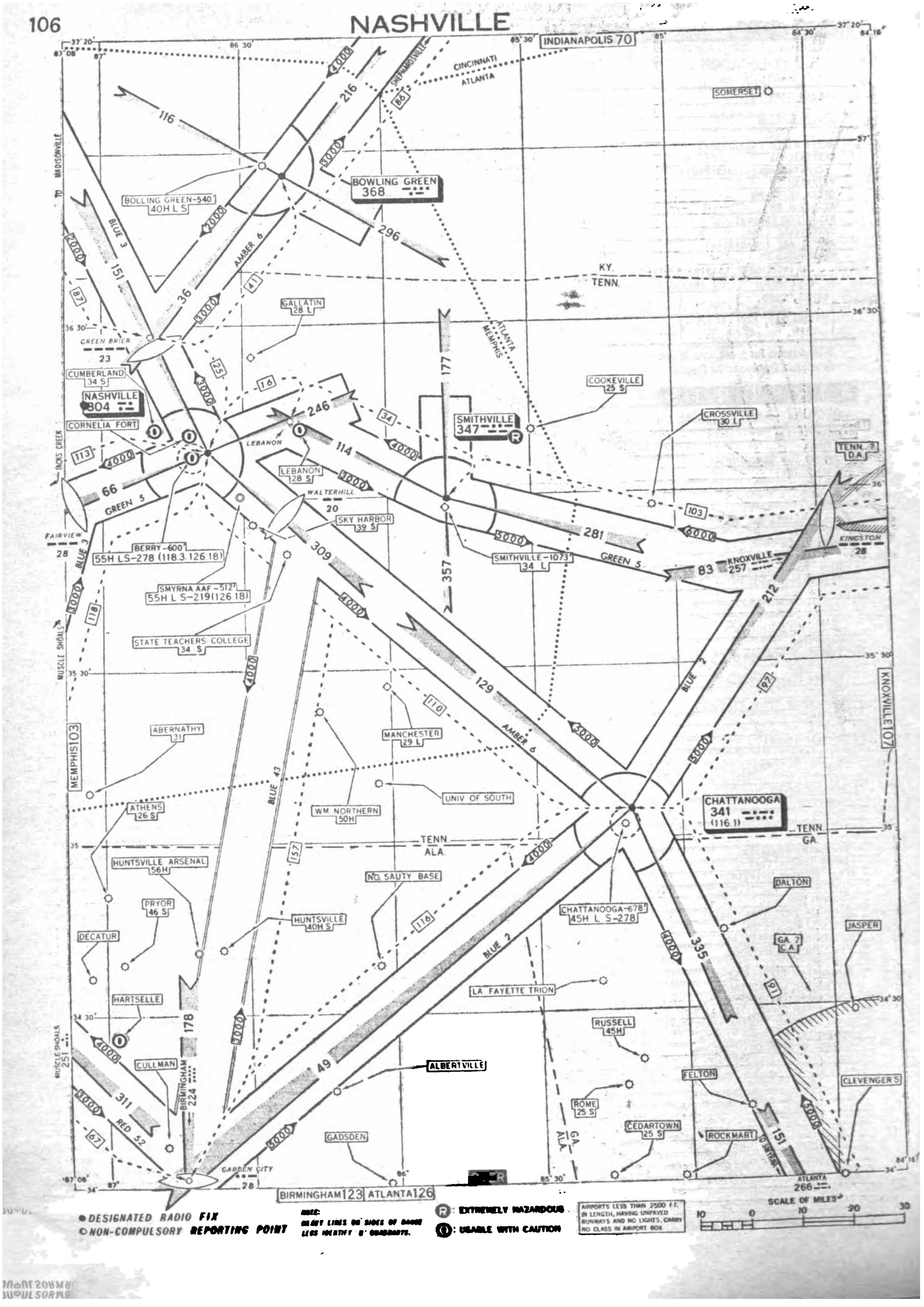
(P) Bowling Green	2.5 SSE;hwy W	540	40h R1 L5 S4	80,91 oct.No sto.Fld lgts prior req.
Somerset	5 N; RR W		20 S2	80 oct. Data not verified.

TENNESSEE

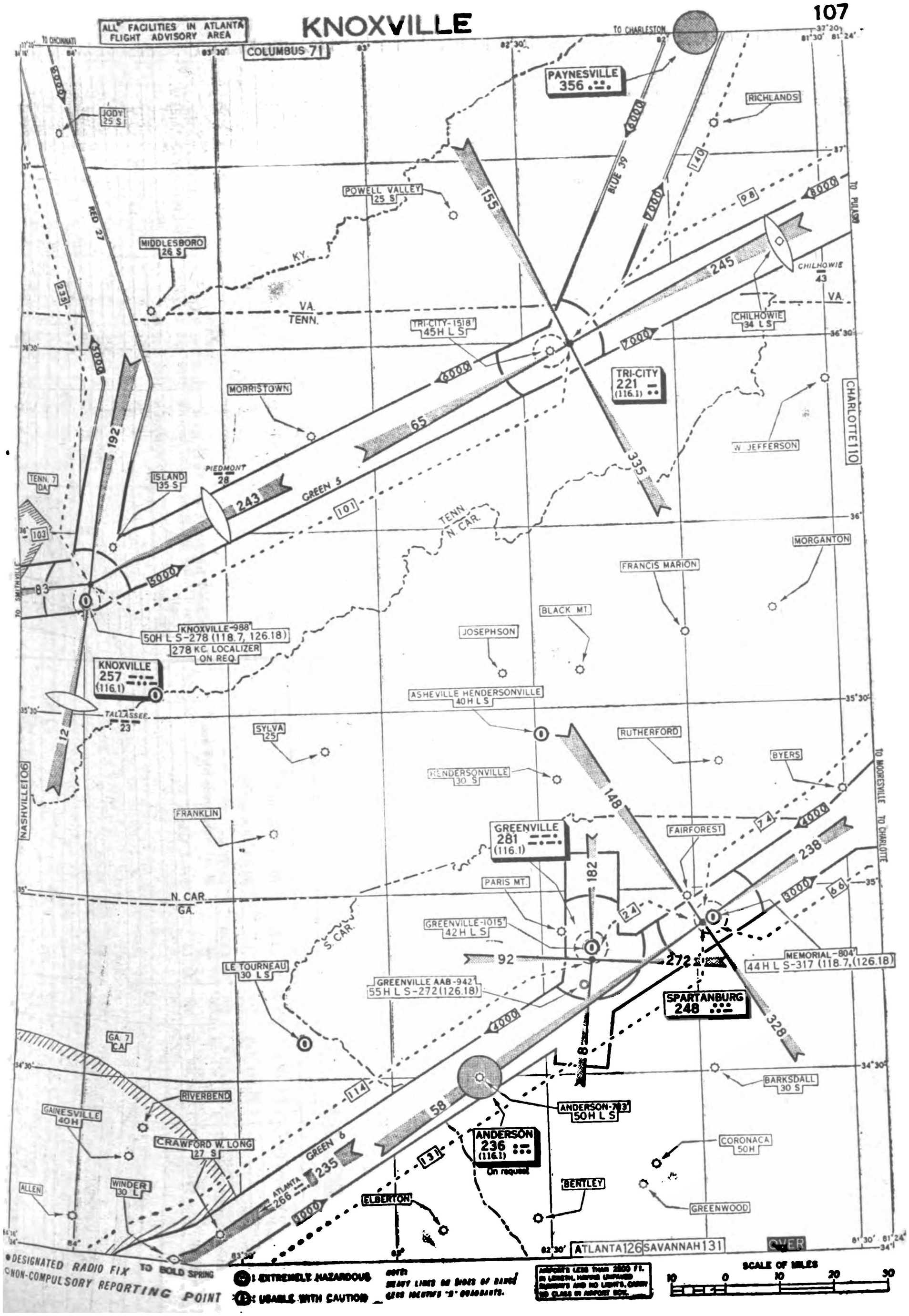
Abernathy (Pulaski)	3.6 SSW;hwy NE	650	31 S1	80 oct. Trees E.
BERRY (Nashville)	6 SE;hwy S	600	55h R3 L6 S6	73,100 oct.
Boyd (McMinnville)(NC)	4.6 SW;RR N	1000	20	
CHATTANOOGA	5.5 E;RR E	678	45h R2 L5 S6	80,91 oct.
Cookeville	1.5 NNE;RR N	1050	25 S4	80 oct. Sto in emerg. Poles W.
Cornelia Fort (Nashville)	4 ENE;riv E	420	30 S6	80 oct. Data not verified.
Crossville,9,NA-WA	3.3 WNW;hwy S	1862	30 L5	
Cumberland (Nashville)	3 NNW;riv N	400	34 S6	80 oct. No storage.
★ Gallatin Int,66,DL-LV	1.5 NW;hwy NE	557	28 L3	
Lebanon	1.8 SW;hwy E	522	28 S6	73 oct. No storage.
★ Manchester Int,16A,AG-NA	4.5 ESE;hwy SW	1090	29 L3	53' trees W,N.
Sky Harbor (Murfreesboro)	7.3 NW;hwy SW	560	39 S6	73 oct. No storage. Poles NE.
★ Smithville Int,5,NA-WA	1 E;road S	1073	34 R1 L3	
(A) Smyrna AAP (Nashville)(A)	17 SE;RR SW	512	55h R3 L5 S6	73,91,100 oct. JP-1. No rng.
State Teachers College(Murfreesboro)	2 E;hwy N	600	34 S4	80 oct. No storage. Poles N.
University of South (Cowan)	1.8 WNW;RR NE	870	23 S2	80 oct.
William Northern (Tullahoma)	2 WNW;road S	1081	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

NASHVILLE


INDIANAPOLIS 70
CINCINNATI
ATLANTA
SHEPHARDSVILLE
SOMERSET
BOWLING GREEN
368
BOLLING GREEN-540'
40H L S
BLUE 3
AMBER 6
KY.
TENN.
GALLATIN
28 L
GREEN BRIER
23
CUMBERLAND
34 S
NASHVILLE
804
CORNELIA FORT
LEBANON
LEBANON
28 S
SMITHVILLE
347
COOKEVILLE
25 S
CROSSVILLE
30 L
TENN. 7
D.A.
DACKS CREEK
WALTERHILL
20
SKY HARBOR
39 S
FAIRVIEW
28
BERRY-600'
55H LS-278 (118.3.126.18)
SMYRNA AAF-512'
55H L S-219(126.18)
SMITHVILLE-1073'
34 L
GREEN 5
KNOXVILLE
257
KINGSTON
28
MUSCLE SHOALS
STATE TEACHERS COLLEGE
34 S
MEMPHIS 103
ABERNATHY
31
ATHENS
26 S
BLUE 43
MANCHESTER
29 L
UNIV OF SOUTH
WM NORTHERN
50H
TENN.
ALA.
HUNTSVILLE ARSENAL
56H
NO. SAUTY BASE
PRYOR
46 S
HUNTSVILLE
40H S
DECATUR
HARTSELLE
CULLMAN
BIRMINGHAM
224
RED 52
GADSDEN
GARDEN CITY
28
ALBERTVILLE
LA FAYETTE TRION
RUSSELL
45H
ROME
25 S
CEDARTOWN
25 S
FELTON
ROCKMART
CLEVENGER'S
CHATTANOOGA
341
(116.1)
TENN.
GA.
CHATTANOOGA-678'
45H L S-278
DALTON
GA. 7
C.A.
JASPER
KNOXVILLE 107
ATLANTA
266
BIRMINGHAM 123 ATLANTA 126
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF BOOKS
LESS HEAVY 8° QUADRANTS.
R: EXTREMELY HAZARDOUS
(I): USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 F.T. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

KNOXVILLE


ALL FACILITIES IN ATLANTA FLIGHT ADVISORY AREA
COLUMBUS 71
TO CINCINNATI
TO CHARLESTON
PAYNESVILLE 356
RICHLANDS
JODY 25 S
POWELL VALLEY 25 S
MIDDLESBORO 26 S
KY.
VA.
TENN.
TRI-CITY-1518' 45H L S
CHILHOWIE 43
CHILHOWIE 34 L S
TRI-CITY 221 (116.1)
MORRISTOWN
PIEDMONT 28
ISLAND 35 S
TENN. 7 DA
W. JEFFERSON
CHARLOTTE 110
TO PULASKI
TENN. N. CAR.
MORGANTON
FRANCIS MARION
BLACK MT.
JOSEPHSON
KNOXVILLE-988' 50H L S-278 (118.7, 126.18)
278 KC. LOCALIZER ON REQ.
KNOXVILLE 257 (116.1)
TALLASSEE 23
ASHEVILLE HENDERSONVILLE 40 H L S
SYLVA 25
HENDERSONVILLE 30 S
RUTHERFORD
BYERS
TO MOORESVILLE
NASHVILLE 106
TO SMITHVILLE
FRANKLIN
GREENVILLE 281 (116.1)
FAIRFOREST
PARIS MT.
N. CAR.
GA.
S. CAR.
GREENVILLE-1015' 42 H L S
LE TOURNEAU 30 L S
GREENVILLE AAB-942' 55 H L S-272 (126.18)
MEMORIAL-804' 44 H L S-317 (118.7, 126.18)
SPARTANBURG 248
GA. 7 CA
RIVERBEND
GAINESVILLE 40H
CRAWFORD W. LONG 27 S
ANDERSON-793' 50 H L S
ANDERSON 236 (116.1) On request
CORONACA 50H
BARKSDALL 30 S
WINDER 30 L
ALLEN
ATLANTA 266
ELBERTON
BERTLEY
GREENWOOD
ATLANTA 126 SAVANNAH 131
OVER
RED 27
BLUE 39
GREEN 5
GREEN 6
5000
6000
7000
8000
4000
3000
155
245
65
335
243
101
103
83
235
192
12
182
24
92
272
328
98
140
74
66
148
238
114
58
131
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX TO BOLD SPRING
NON-COMPULSORY REPORTING POINT
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
HEAVY LINES ON SIDES OF BLOCK GIVE IDENTIFYING "B" BOUNDARIES.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SOL.

RADIO

SOUTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANDERSON	236 (AS)(116.1)	MHVT	(4); 116.1
GREENVILLE	281 (GC)(116.1)	BMLZ-VDT, 2°, 2	(4); 116.1
Greenville AAB	272 (126.18)	CA	(3); 126.18
MEMORIAL AIRPORT (Spartanburg)	317 (126.18)	C	(4); 142.74, 131.9
SPARTANBURG (Memorial Arpt)	248 (SU)	SBRAZ-DT,58°,1.6	(4)

TENNESSEE

KNOXVILLE	257 (KX)(116.1)	SBRAZ-VDT	(4); 116.1
Knoxville Airport	278 (126.18)	C; 192°, 2.9	(4);142.74,131.9,118.7,126.18
Knoxville Airport	278	(Low powered range)	(4) (on req.)
PIEDMONT FM	(- -)	FM, 66°, 28	Knoxville
TALLASSEE FM	(- - -)	FM, 192°, 23	Knoxville
TRI-CITY	221 (TI)(116.1)	SBMRAZ-VDT,252°, 3.3	(4), 116.1

VIRGINIA

CHILHOWIE FM	(-)	FM, 65°, 43	Tri City, Tenn.

WEST VIRGINIA

PAYNESVILLE	356 (IR)	H	Operated by P.C.A.(6-23)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Buford)	1.5 S,hwy SW	1070	15 S1	80 oct. Pole line SW.
Crawford W. Long (Jefferson)	2.5 S,RR E	950	27 L1 S1	80 oct. Pole line SE.
Elberton	2 SE,hwy W,N	710	16 S1	80 oct. Obst sur fld.
Gainesville	1.5 S,RR E,NW	1277	40h	
Le Tourneau (Toccoa)	2.5 NE,RR S	950	30 L3 S4	80, 91 oct.
Riverbend(Gainesville)	4.5 N, in bend of river	1200	17 S1	80 oct.Steep grade NNW end.
★ Winder Int,4,AG-LG	1.5 NE,bet rds	950	30 L3	Trees, bldg N.

KENTUCKY

Jody (London)	3 S,hwy E	1240	25 S2	80 oct.
Middlesboro	1.2 W,hwy S	1150	26 S4	80 oct.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii)(NC)-Not charted.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ASHEVILLE-HENDERSONVILLE (Ashev'l)	11.5 SSE,RR W	2090	40h L5 S4	73, 80, 91, 100 oct.
Black Mountain	1.8 SW,RR N	2270	15 S1	80 oct. Soft.
Byers (Shelby)	3 SE,RR SW	875	16 S4	80 oct.
Francis Marion (Marion)	2.5 NE,RR NE	1450	19 S4	80,91 oct.
Franklin	1.2 ESE,riv W	1996	23 S2	80 oct.
Hendersonville	1.5 ESE,hwy SW	2200	30 S6	80, 91 oct.
Josephson (Asheville)	3 W,riv E	2200	20 S1	Ltd 80 oct. Trees NW,SE.
Morganton	2 NW,riv E	1024	16 S2	80 oct.
Morganton-Lemoir (Morganton) (NC)	7.5 NE	1253	33 S2	No fuel.
Rutherford(Spindale)	1.5 SSE,RR N	1012	17 S2	80 oct.
Sylva	2.4 NE,riv SW	2039	25 S2	No fuel.
West Jefferson	2 SSW,RR NNE	3200	16 S2	80 oct.

SOUTH CAROLINA

Anderson	4.5 WSW,hwy S	783	50h R1 L5 S6	80, 91 oct.
Barksdale (Laurens)	2.8 E,RR NE	700	30 S6	73 oct. Pole line NE.
Bentley (Calhoun Falls)	3 ENE,RR NNW	500	16	
Chesnee	2 S,RR W	910	18	PRIVATE.
Coronaca (Greenwood)	3.8 N,RR E	629	50h	
Fairforest (Spartanburg)	5.8 WNW,rd W	830	23 S6	80 oct.
(N) GREENVILLE	3.2 E,RR SE	1015	42h R1 L5 S6	80 oct.
(A) Greenville AAB (A)	7.5 SSE,hwy W	942	55h R1 L5 S6	73, 91, 100 oct. No sto.
Greenwood	2.6 W,RR E	650	24 S6	73 oct.
(N,P) MEMORIAL (Spartanburg)	2.5 SW,hwy SE	804	44h R2 L5 S6	80, 91 oct. 100 oct. for military.
Paris Mountain (Greenville)	4.2 NNW,RR E	1006	21 S6	80 oct. Pwr line NW.

TENNESSEE

Island (Knoxville)	2.5 E	830	35 S4	80 oct. No sto.
(P) McGHEE-TYSON (Knoxville)	12 SSW,hwy E	988	50h R2 L5 S6	91, 100 oct.
Morristown	5.7 ENE	1400	19 S1	73 oct.
TRI-CITY	11.8 NNW Johnson City	1518	45h R1 L5 S6	80, 91 oct. 10.2 ESE Kingsport.

VIRGINIA

★ Chilhowie Int,29B,NA-WA	3.9 SE,riv N	2100	34 L3 S4	80 oct. Pole lines SW,NE.Riv SW.
Powell Valley (Big Stone Gap)	4 ESE,hwy NW	1700	25 S4	80 oct.Pole line ENE,hills W.
Richlands	2.7 WSW,RR N	1950	20 S2	80 oct.

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHARLOTTE (Douglas)			
DOUGLAS ARPT. (Charlotte)	212(CF)(116.1)	BMLZ-VDT; 359°,1.7	(4); 116.1
	396 (126.18) (118.9)	C	(4); 126.18,118.9,131.9, others on req.
GREENSBORO			
Greensboro-High Pt. Airport	365(GW)(116.1)	SBRAZ-VDT	(4); 116.1
	219 (126.18) (118.7)	C; 241°, 1.5	(4); 118.7,126.18
POPE (Fort Bragg)(Army)	338(DOP)(116.1)	SBMRAZ-V	(3); 116.1
Pope Field	396 (126.18) (116.1)	CA(ILS);355°,2.5	(3); 116.2,126.18
RALEIGH (Raleigh-Durham Airport)	350(DU)(116.1)	SBRAZ-VDT;299°,3.8	(4); 116.1
SMITH-REYNOLDS AIRPORT (Winston-Salem)	278 (126.18) (118.3)	C	(4); 142.74,126.18, 118.3,131.9
WINSTON-SALEM (Smith-Reynolds Airport)	379 (DWS)	MRLWZ; 328°, 5.1	

SOUTH CAROLINA

FLORENCE	239(FL)(116.1)	SBMRLZ-VDT;292°,1.7	(4); 116.2

VIRGINIA

DANVILLE	344(VE)(116.1)	MHVT	(4); 116.1
PULASKI (Loving)	272 (US)	SBMRAZ-DT;247°,2.1	(4)
ROANOKE (Woodrum Fld)	317(RO)(116.1)	SBRAZ-VDT;349°,2	(4); 116.1
WOODRUM FIELD (Roanoke)	278 (118.5)	C	(4); 131.9,118.5,126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
POPE, N.C.	110.3	335	360° Mag.	IM (.04)	MM ····· (4.00)	OM -- (4.18)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NORTH CAROLINA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen Inc.	1.2 W; RR N	450	25	Obsts sur fld.
Ashboro	1.8 SSW;hwy NW	864	18 S2	80 oct.
(A) Balloon (Ft. Bragg)(A)	1 NNW; RR E	225	22	Closed to all acft.
Belmont	1.3 NE;riv E	740	20 S6	80 oct. No sto.Pole line WNW.
Bridges (Kings Mountain)	1 SW; RR SE	930	17 S2	80 oct.
Brockenbrough (Derita)	3.8 WNW;RR E	800	22 S6	80 oct. Pole line SSE.
Brooks (Red Springs)	1.2 N; RR SE	208	26	
(P) Burlington	4 SW; hwy W	638	28 S6	80 oct. Pole line S.
Burris (Lincolnton)(NC)	2.2 SW; RR SE	960	10	UNUSABLE.
Camp MacKall (Hoffman)	3.5 E	350	50h	
Candor (NC)	1.1 E; RR N	710	19	Pole line WNW.
Cannon (Charlotte)	3 WNW; hwy S	788	24 L S6	80,91 oct. Flood lgts req.
Caswell (Yanceyville)	3.7 S; hwy W	640	20 L S1	80 oct. Flare pots prior req.
Coley (Concord)	2 SW; RR E	790	12 S1	80 oct. Trees ESE.
Colonial Flying Service (Mt. Airy)	1.4 NNE;RR S	950	15 S1	80 oct. Pole line, trees NNW.
Concord	4.5 ESE;rd E,S	700	19 S2	80 oct. Pole line NE.
Delta Air Base(Charlotte)	6.7 E; hwy S	750	31 S6	80 91 oct. No sto. Poles NW.
(A) DOUGLAS (Charlotte)	5.5 W; RR N	745	52h R2 L5 S6	80,91 oct. INACTIVE.
Durham Airways	7.8 N; RR E	310	14 S1	80 oct.
Elkin	2.8 SW;RR NNW	1100	24 S2	80 oct.Rnwy data unverified.
Erwin	1 SW; riv SW	195	30 S1	80 oct. Pwr line S.
Fairchild-Civil (Burlington)	1.5 E; RR S	640	35h	
Fayetteville	5 N; hwy E	238	36 L1 S6	80 oct. Pwr line E.,
Fraley (High Point)	2.5 SSE;RR W	1000	17 S6	80 oct. Strips rough. Trees SE.
Gastonia	1.3 SW	795	16h S4	80 oct. Pwr line SW.
" mun.	4.5 SSE;hwy SW	800	30h	
(A) GREENSBORO-HIGH POINT	8 WNW; RR SW	905	40h R2 L5 S6	80,91,100 oct.
Hickory	2.2 W;RR S	1180	40h S6	80,91 oct.
Horace Williams (Chapel Hill)	1.3 NNW;RR W	502	49 S4	80 oct.
Kannapolis	2.8 N; RR E	750	23 S6	80 oct. Trees WNW.
Kings Mountain	3.5 SW; RR SE	980	23 S2	80,91 oct.
Knollwood (Pinehurst)	5 NE; hwy W	455	53 L5 S4	80,91 oct.
Laurinburg-Maxton(Maxton)	3.5 N;riv E	220	65h	
Lee County (Sanford)	1.5 SE;RR E	400	19 S4	80 oct. No sto. Pwr line sur fld.
Lillington	1.1 NNE;RR S	210	15 S2	80 oct.Pole line NW.
(P) Lumberton	3 WSW;hwy NNW	126	50h L2 S6	80,91 oct.
McLean Brothers (Gibsonville)	0.5 SW;hwy NE	723	18 S6	80 oct.
Mayo (Mayodan)	0.8 W; riv E	900	24 S1	80 oct.
Mocksville	2 W; RR E	800	14 S2	80 oct.
Monroe, com	2.8 SSE	600	20 S2	80 oct.
" mun	2 NNW; hwy S	680	20 S1	80 oct. Trees NW.
Mt. Airy	2.2 SW;RR E	1050	20 S2	80 oct.
North Wilkesboro	1.3 WSW;riv S	970	15 S4	80 oct.
Parkers (Eagle Springs)	1.8 NW;RR S	700	40 S1	80 oct.
Plaza (Charlotte)	5 NE; RR N	740	20 S6	80 oct.
(A) Pope (Ft. Bragg)(A)	2 NW; riv NW	210	52h R3 L5 S6	73,91,100 oct.
Raleigh	3.3 SSW;RR W	364	28h S6	80,91 oct.
RALEIGH-DURHAM(Raleigh)	10.5 NW;RR W	433	45h R1 L5 S4	80,91 oct.
Reidsville	3.2 SE;riv S	822	25 S6	80 oct.
(P) Rockingham-Hamlet	3.5 S; RR E	358	46 S2	80 oct.
Rogboro	7 NE; RR W	600	18 S1	80 oct.
Salisbury	3 SW; RR E	764	25 L2 S6	73 oct.
Skyline (Southern Pines)	4.5 NE;RR NW	460	21 S4	80 oct. No sto. Pwr line S.
SMITH-REYNOLDS (Winston-Salem)	2.8 NNE;RR W	969	67h R2 L5 S6	80,91 oct. Rnwy data unverified.
Stanly (Albermarle)	6 WNW;hwy S	720	16 S1	80 oct.
Statesville	4.5 WSW;RR SE	990	27 S2	80 oct. Trees N.
Tri-City (Draper)	1.2 W; riv W	560	26 S2	80 oct.
Wadesboro	3.7 NNE;RR S	220	18 S4	80,91 oct.
Warf (Reidsville)	3.8 SW; hwy W	820	23 S2	80 oct. Trees N, S.
Whiteville	3.7 S; RR N	60	18 S1	Ltd 80 oct.
Young Airfield (Oxford)	1.8 SW; RR NW	475	18 S1	Ltd 80 oct.

SOUTH CAROLINA

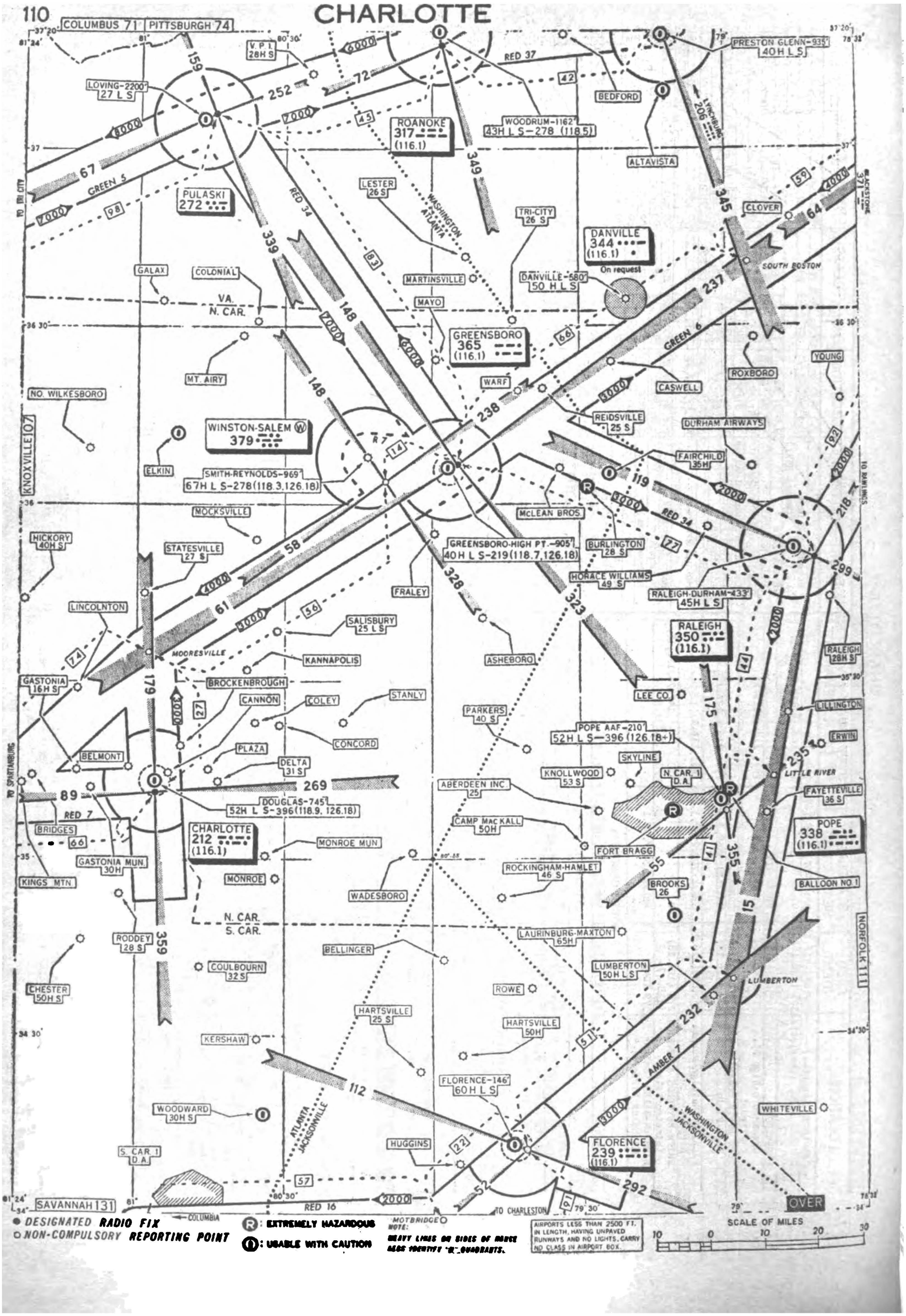
(P) Chester	5 NNE;RR W	709	50h S4	80 oct. No sto.
Coulbourn (Lancaster)	1 SSW;hwy SW	560	32 S4	80 oct.
Florence	3.5 E; RR SW	146	60h R1 L5 S1	80,91 oct.
Hartsville	2.1 NNE;hwy S	230	25 S2	80 oct.
(P) Hartsville (Darlington)	10 N; hwy E	190	50h	
Huggins (Timmonsville)	1.5 ENE;hwy NW	149	18 S4	80 oct. Pwr line NNW.
Kershaw	4 S; RR W	475	21	
Little Rock (NC)	2.5 SE;hwy W	135	22	Poles around fld.
Lynch Bellinger (Cheraw)	4.2 WNW;RR S	400	22 S4	80 oct. No.sto.Pole line S,WSW.
Palmer (Bennettsville)	3.4 NNW;hwy E	155	44	Not maintained as landing fld.(NC)
Roddey (Rock Hill)	2.7 SW; RR NW	664	28 S4	80,91 oct.Pole line S.
Rowe (Bennettsville)	1.5 NE;	190	29 S5	80,91 oct.Trees SW.
(P) Woodward (Camden)	2.9 NE; hwy E	300	30h S4	80 oct.

VIRGINIA

Altavista	6.1 NE;RR S	650	18 S1	80 oct. Trees SW.
Bedford	1.3 WSW;RR N	1050	16	PRIVATE.
(P) Danville	3.4 ESE	580	50h R1 L5 S6	80,91 oct.
Galax	6.5 S;hwy E	2575	27 S4	80 oct.
Lester (Martinsville)	0.8 NNW;RR NE	1000	26 S2	80 oct.20-75' bldgs SE.
Loving.35A.NA-WA(Pulaski)	2.8 N;RR SE	2200	27 R1 L3 S4	80 oct.Poles SW.No sto.
Martinsville	3.5 SSE;RR NE	800	16 S2	73 oct.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
V.P.I. (Blacksburg)	1.3 SSE;RR W	2100	28h L1 S6	73,80 oct. Strip rough.
(P) WOODRUM (Roanoke)	4.2 NNW;rd W	1162	43h R2 L5 S6	80,91,100 oct.
Clover	3.5 SSW;riv E	350	20	Trees E,W,SE,NW.House E,SE.

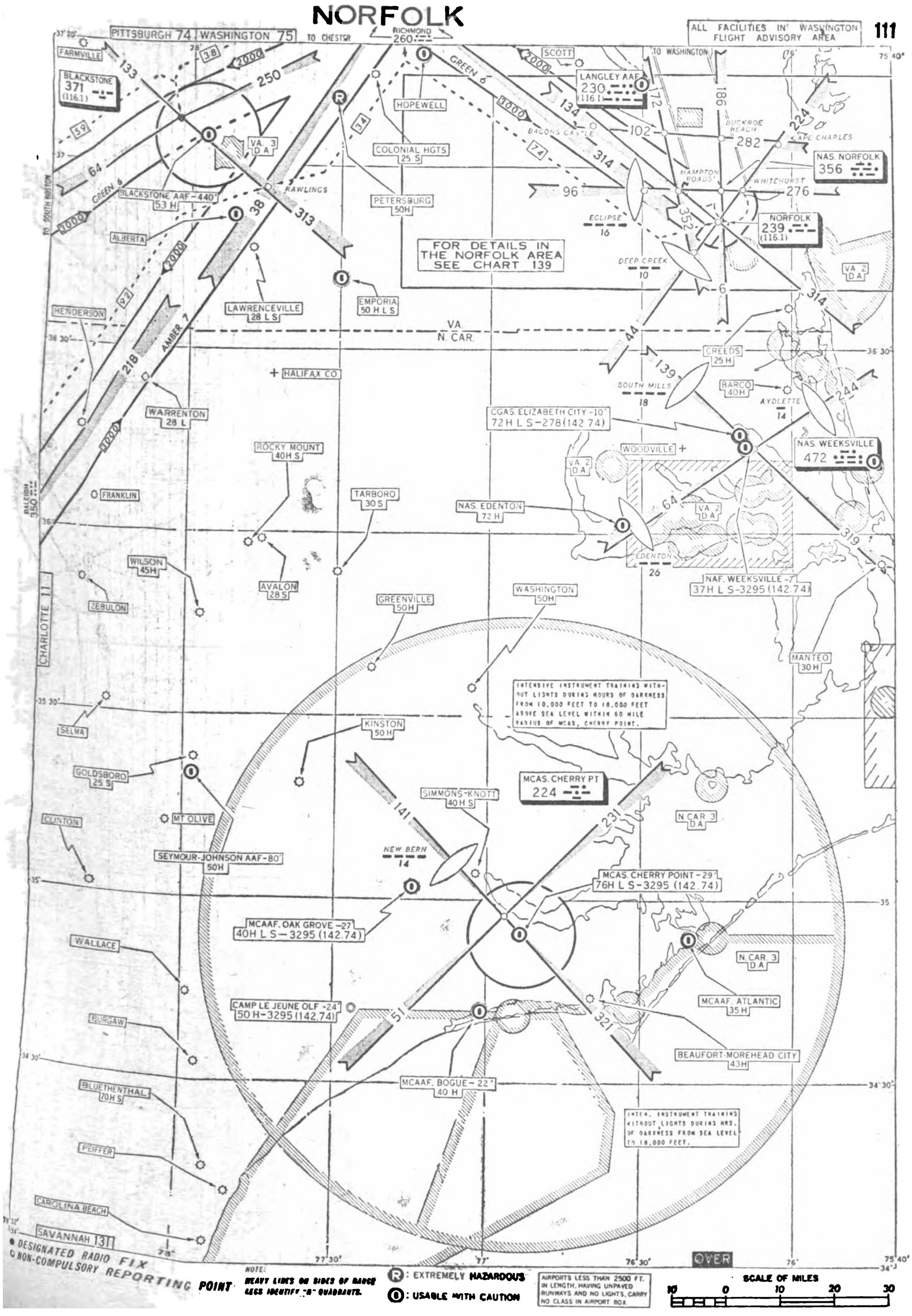
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

CHARLOTTE



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓘ: USABLE WITH CAUTION

NORFOLK


PITTSBURGH 74 | WASHINGTON 75
TO CHESTER
RICHMOND 260
ALL FACILITIES IN WASHINGTON FLIGHT ADVISORY AREA
FARMVILLE
BLACKSTONE 371 (116.1)
HOPEWELL
SCOTT
LANGLEY AAF 230 (116.1)
TO WASHINGTON
BUCKROE BEACH
CAPE CHARLES
NAS. NORFOLK 356
COLONIAL HGTS 25 S
BACONS CASTLE
VA. 3 D A
BLACKSTONE AAF -440' 53 H
RAWLINGS
PETERSBURG 50H
HAMPTON ROADS
WHITEHURST
NORFOLK 239 (116.1)
ECLIPSE 16
DEEP CREEK 10
VA. 2 D A
FOR DETAILS IN THE NORFOLK AREA SEE CHART 139
ALBERTA
LAWRENCEVILLE 28 L S
EMPORIA 50 H L S
HENDERSON
VA.
N. CAR.
HALIFAX CO
CREEDS 25 H
SOUTH MILLS 18
BARCO 40H
AYDLETTE 14
WARRENTON 28 L
CGAS. ELIZABETH CITY -10' 72 H L S-278 (142.74)
ROCKY MOUNT 40H S
WOODVILLE
NAS. WEEKSVILLE 472
VA. 2 D A
FRANKLIN
TARBORO 30 S
NAS. EDENTON 72 H
EDENTON 26
NAF. WEEKSVILLE -7 37H L S-3295 (142.74)
WILSON 45H
AVALON 28 S
ZEBULON
GREENVILLE 50H
WASHINGTON 50H
MANTEO 30H
INTENSIVE INSTRUMENT TRAINING WITHOUT LIGHTS DURING HOURS OF DARKNESS FROM 10,000 FEET TO 18,000 FEET ABOVE SEA LEVEL WITHIN 60 MILE RADIUS OF MCAS, CHERRY POINT.
SELMA
KINSTON 50H
GOLDSBORO 25 S
MCAS. CHERRY PT 224
SIMMONS-KNOTT 40H S
MT OLIVE
CLINTON
N CAR 3 D A
SEYMOUR-JOHNSON AAF-80' 50H
NEW BERN 14
MCAS. CHERRY POINT -29' 76H L S-3295 (142.74)
MCAAF. OAK GROVE -27' 40H L S-3295 (142.74)
WALLACE
N. CAR. 3 D A
CAMP LE JEUNE OLF -24' 50 H-3295 (142.74)
MCAAF. ATLANTIC 35 H
BURGAW
BEAUFORT-MOREHEAD CITY 43H
MCAAF. BOGUE-22' 40 H
INTEN. INSTRUMENT TRAINING WITHOUT LIGHTS DURING HRS. OF DARKNESS FROM SEA LEVEL TO 18,000 FEET.
BLUETHENTHAL 70H S
PEIFFER
CAROLINA BEACH
SAVANNAH 131
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30
OVER

RADIO — NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS, GUARDED, HRS. OF OPER., REMARKS
AYDLETTE FM (Navy)	(-)	FM, 64°, 14	Weeksville NAF
CAMP LE JEUNE OLF (New River)	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
CHERRY POINT (Navy)	224 (NKT)	BMRLZ	(3); 140.58, 142.74
Cherry Point MCAS	3295 (142.74)	CN, 141°, 4	(3); 142.74 (6-19)
EDENTON FM (Navy)	(- - -)	FM, 244°, 28	Weeksville NAF
ELIZABETH CITY CGAS	278 (142.74)	CN	(3); 142.74 (7-19)
NEW BERN FM (Navy)	(- - - -)	FM, 321°, 13.6	Cherry Point MCAS
OAK GROVE MCAAF (Polloksville)	3295 (142.74)	CN	3105;142.74 (8-18)
SOUTH MILLS FM (Navy)	(- - - -)	FM, 319°, 17.5	Weeksville NAF
WEEKSVILLE (Navy)	472 (NFG)	MRL	500,3105; 142.74 (7-19)
Weeksville NAF-LTA	3295 (142.74)	CN, 319°, 0.5	3105; 142.74 (8-1630)
VIRGINIA			
BLACKSTONE (AAF)	371 (KT)(116.1)	BMLZ-VDT,133°,5.5	(4); 116.1
DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk
LANGLEY FIELD (Army)	230 (DLY)(116.1)	SBMRAPZ-VDT	(3); 116.1
NORFOLK	239 (NW)(116.1)	SBMRLZ-VDT, 44°, 3.4	(4); 116.1
Norfolk NAS (Navy)	356 (NGU)	BMRLZ, 276°, 2.9	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Atlantic MCAAF (N)	0.8 NW,hwy SE	24	35h	INACTIVE
Avalon (Rocky Mount)	3.8 NE,RR W	120	28 S2	80 oct.
Barco Flight Strip	2.4 W,hwy S	19	40h	
(P) Beaufort-Morehead City	1 N, riv W	13	43h	
(P) BLUETHENTHAL	2.4 NNE, RR W	30	70h L5 S4	80-100 oct. (Wilmington)
(N) Bogue MCAAF (N)	5.6 E Swansboro	22	40h	INACTIVE.
Burgaw	1.2 W,hwy N,S	30	22 S1	80 oct. Pwr line SSE.
(N) Camp LeJeune OLF (New River)(N)	2.5 S Jacksonville	24	50h R1	
Carolina Beach	2.2 NNW,hwy E	32	16 S1	80 oct. (ltd)
(N) Cherry Point MCAS	2.5 SW,riv N	29	76h R2 L5 S6	100 oct. (N)
Clinton	2 N, hwy W	160	24 S6	80 oct. Pole line W
(N) Edenton NAS (N)	3.5 SE	19	72h	INACTIVE
ELIZABETH CITY CGAS	3.5 SE,riv NE	10	72h R1 L6 S4	91, 100 oct.
Ⓣ Elizabeth City CGAS	3.5 SE	S.L.	106 L1 S4	91,100 oct. Ramps, all facs. (NC)
Franklin(Louisburg)	2 WSW,hwy S	290	20 S4	80 oct. Hi-line S
Goldsboro	1.3 E,hwy S	110	25 S1	80 oct. Pole line NNE
(P) Greenville	1.8 NNW	25	50h	
Halifax Co.(Roanoke Rapids)	3 SW,hwy N	140	25 S1	80 oct. Data not verified.
‡ Harvey Point (Elizabeth City) (NC)	13 S	S. L.	Unl.	Ramps
Henderson	3 S,RR W	490	23 S6	80,91 oct. No sto. Pole lines S. Rnwy data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Jacksonville (NC)	3.7 NE,RR SE	51	14	
(P) Kinston	4.2 NNW	93	50h	
Manteo	1.5 NW,rd NE	12	30h	
Mt. Olive	1.1 NE,RR E	160	15 S1	80 oct.
(N) Oak Grove MCAAF (Polloksville) (N)	2.5 NW,riv S	27	40h R1 L S4	91, 100 oct.
Peiffer(Wilmington)	6 ESE,ocean E	10	18 S1	80 oct. Poleline NNE,trees N,S,SW.
ROCKY MOUNT	2.3 N,RR E	114	40h S3	80 oct. Use rnwys only.
Selma	0.5 E,RR W,S	150	19 S4	80 oct. Pole line E.
(A) Seymour-Johnson (Goldsboro) (A)	3 SSE,riv SW	80	50h	INACTIVE
SIMMONS-KNOTT	2.5 SSE	19	40h S1	80, 91 oct. (New Bern)
Tarboro	2 ESE,riv NNW	50	30 S6	80 oct. No sto. Pole line NNE.
Wallace	0.8 N,RR SW	50	16 S6	80 oct. No sto.
★ Warrenton Int,46,JX-RW	1.5 NE,RR W	446	28 L3	
(P) Washington	1.8 N,hwy W	38	50h	
(N) Weeksville NAF(LTA)	2.2 NE	7	37h R2 L5 S4	91, 100 oct. (N)
(P) Wilson	4.2 NW,hwy E	161	45h	
Woodville (Elizabeth City)	9 WSW	15	19 S6	80 oct. No sto. Pole line S, SW. Data not verified.
Zebulon	3.5 NW,hwy E	324	16 S1	80 oct.
VIRGINIA				
Alberta	1.5 E,RR SW	380	17 S2	80 oct. Trees WSW,
(A) Blackstone AAF (A)	2.5 ESE,hwy N	440	53h R1	Closed to all acft. INACTIVE
Clarksville-Finchley	5 ENE,RR S	450	13	House, trees NW. (NC)
Colonial Heights (Petersburg)	2 NNE,RR W	60	25 S1	80 oct.
Creeds	1.5 E,bay E	10	25h	
Emporia	3 E,rd S	127	50h L5 S1	80,91 oct. Trees sur fld.
Hopewell	3.3 E,riv N	20	24 S6	80 oct.
Lawrenceville,49B, JX-RW	3.8 ENE,RR N	317	28 L3 S6	80 oct.
Petersburg	6.2 WSW,RR N	190	50h	
Scott (Williamsburg)	1.3 NNW,RR SW	90	20 S2.	80 oct. Pole line SW,WNW.
William & Mary College (Williamsburg)	3 NNW,RR SW	105	29	20-60' trees NE,SW,W. (NC)
Farmville	2.5 NW,riv N	325	20 S6	80 oct. Hill W.

RADIO

TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALICE	224(EZ)(116.1)	SBRAZ-VDT,73°,3.3	(4);116.1
BROWNSVILLE (International Arpt)	388(JI)(116.1)	SBRAZ-VDT,157°,2.4	(4);116.1
CABANISS NAAS,(Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
CLIFF MAUS (Corpus Christi)	278(126.18)	C	(4);116.1,140.1,131.9,126.18
CORPUS CHRISTI (Cliff Maus Field)	382(CR)(116.1)	SBMRLZ-VDT,138°,2.9	(4);116.1
Corpus Christi (Navy)	248 (NGP)	MLZ	(3);142.74
Corpus Christi NAS	248 (142.74)	CN;350°,3.3	(3);142.74
Corpus Christi NAS (Seapl)	2870(142.74)	CN	3105;6210;142.74
CUDDIHY NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
FALFURRIAS FM	(- -)	FM, 163°, 35.5	Alice
GREGORY FM (Navy)	(-)	FM, 350°, 18	Corpus Christi NAS
INTERNATIONAL ARPT (Brownsville)	278 (126.18) (118.7)	C(ILS);157°,2.4	(4);126.18,118.7
LAREDO (AAF)	206(LL)(116.1)	SBRAZ-VDT,137°,3.3	(4);116.1
LOS FRESNOS FM	(- - - -)	FM, 338°, 8.9	Brownsville
MERCEDES FM	(- - -)	FM, 282°, 29.5	Brownsville
PALACIOS	350(UX)(116.1)	BMLZ-VDT,118°,1.7	(4);116.1
PLEASANTON FM	(- - -)	FM, 174°, 44.2	San Antonio
RODD NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
WALDRON NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
INTERNATIONAL, TEXAS	110.3 •---• ••		170° Mag.	IM	MM ••••• (.66)	OM --(4.34)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.

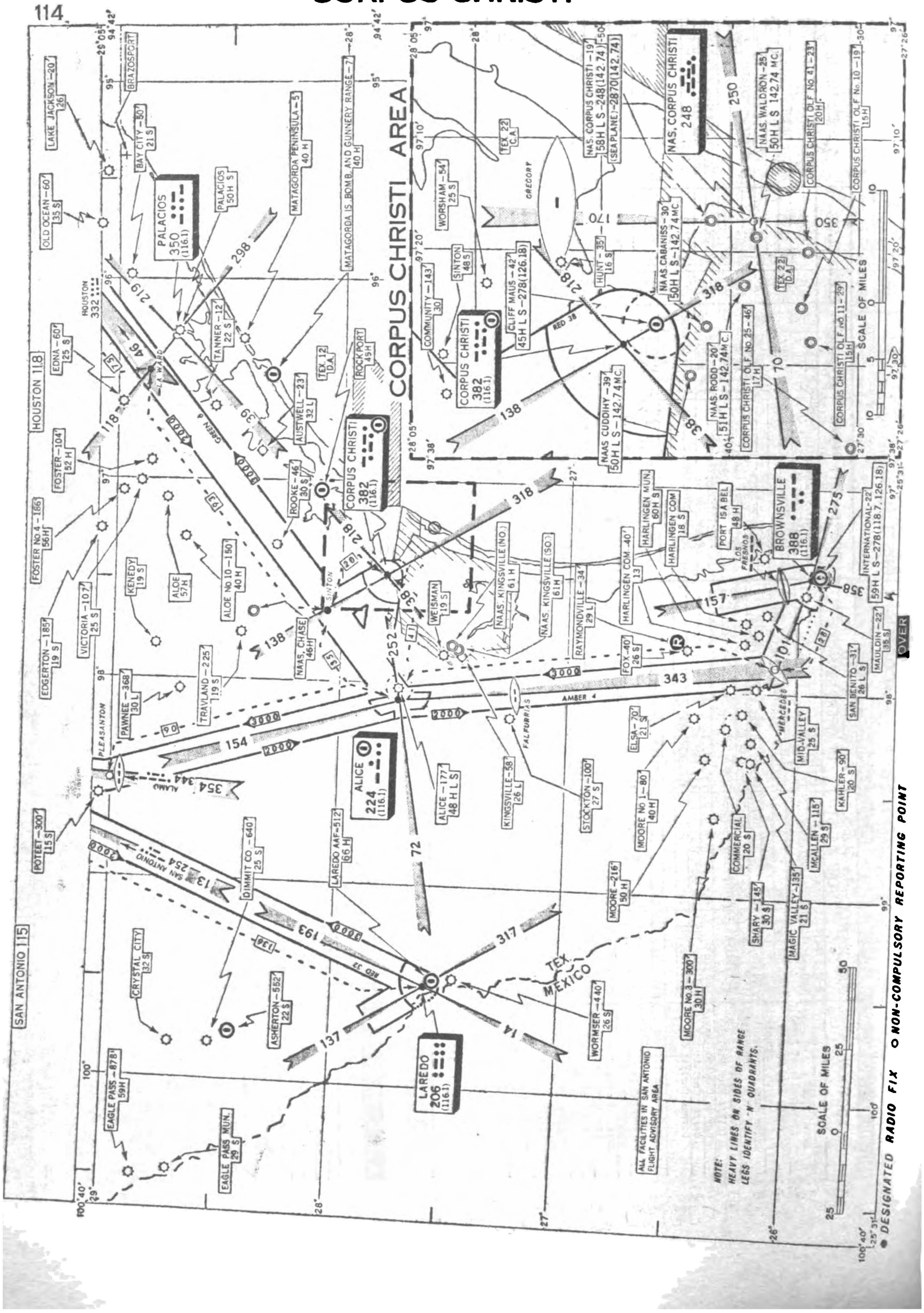
AIRPORTS

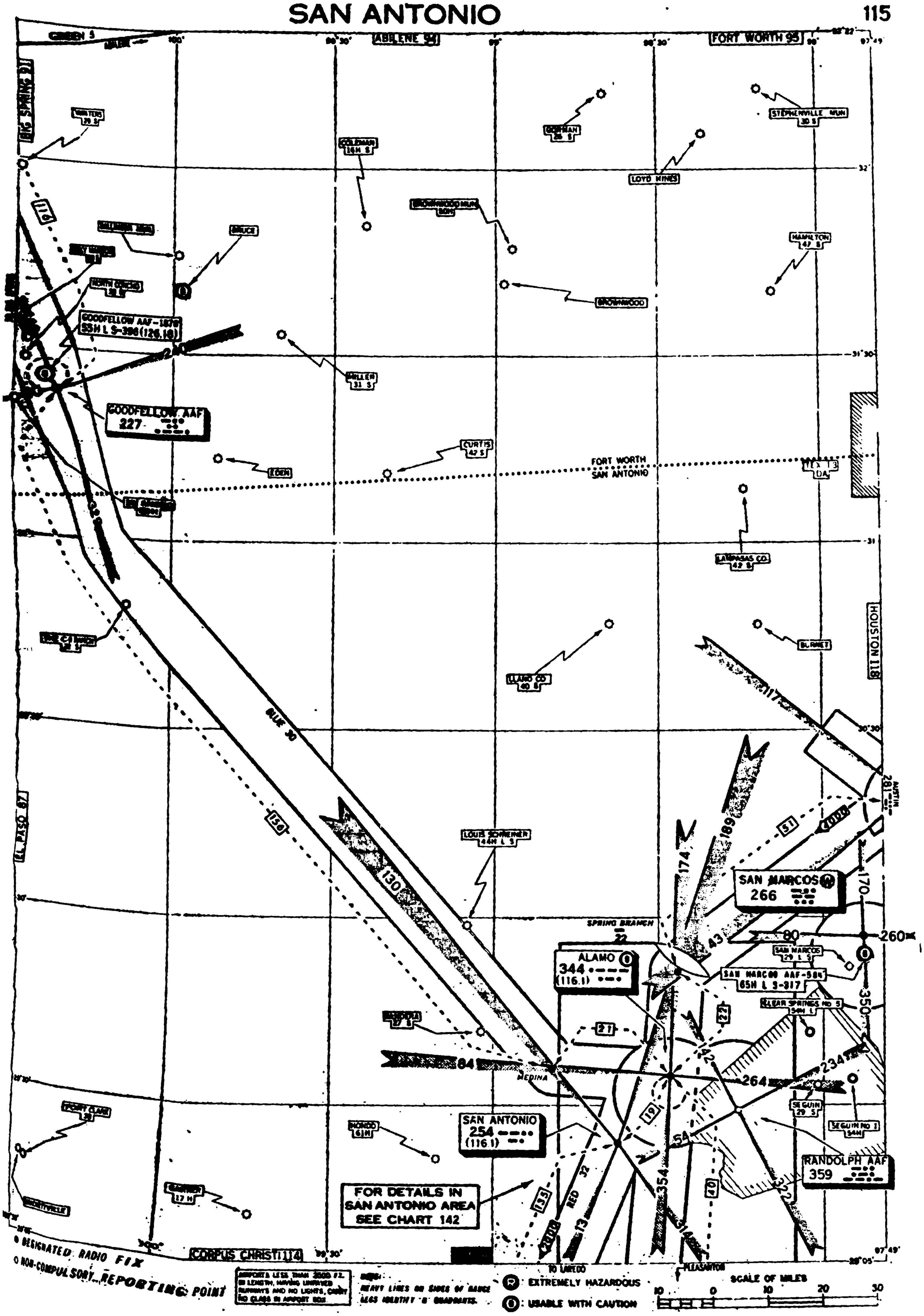
TEXAS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Alice	3.3 ESE;RR N	177	48h R1 L5 S6	80,91 oct.
Aloe (Victoria)	6 WSW;RR SE	107	57h	
" #10 (Victoria)	19.8 WSW	150	40h	
Asherton	1 S;RR NE	552	22 S1	80 oct.Poles N;trees sur fld.
★ Austwell Int.5A.CR-HU	2.1 SSW;bay NE	23	32 L2	Fence around fld.
Bay City	2 SSW;RR N	50	21 S6	80 oct.No sto.Pole line E.
Brazosport (Velasco)	1 N;hwy SW	6	24 S1	80 oct.Data not verified.
(N) Cabaniss NAAS (Corpus Christi)(N)	6.2 SSW;RR NE	30	50h R1 L5 S4	91 oct.
(N) Chase NAAS (Beeville)(N)	5.6 ESE;rd N	186	46h R1	INACTIVE.
Chupadera Ranch Emerg. Strip (Laredo)(NC)	60 NW	630	33 L1	
(N) CLIFF MAUS (Corpus Christi)	2.5 SW;RR N	42	45h R2 L5 S6	80,91 oct.No storage.
Commercial (Edinburgh)	1 W;RR SE	90	20 S1	73 oct.Pole line NW,NNW.
Community (Sinton)	2 W;RR SE	143	30	
(N) Corpus Christi NAS (N)	9.5 SE	19	58h R2 L5 S6	91,100 oct.NATS,NAPC.
(N) " OLF #10 (N)	15 S	19	15h	11 SSW Aberdeen.
(N) " OLF #11 (N)	16 SSW	29	15h	13 SSW Aberdeen.
(N) " OLF #25 (N)	23.5 SSW	46	17h	12.3 ESE Bishop.
(N) " OLF #41 (N)	16 SSE	23	20h	11.8 SSE Aberdeen.
Crystal City	1.8 N;RR W	600	32 S1	80,91 oct.Pole line NE,NW.
(N) Cuddihy NAAS (Corpus Christi)(N)	7.8 SW;crk S	39	50h R1 L5 S4	91 oct.
Central Valley(Mercedes)	1.5 NE;hwy S	62	31h S6	80,91 oct.Data unverified.
⊕Corpus Christi NAS (N)	9.5 SE	S.L.	Unl R1 L3 S5	91,100 oct. Buoys;ramps. (NC)
Cotulla	1 S;RR E	500	22 S1	80 oct.Poles E;trees sur fld.
Crane	1.5 NW;RR W	30	21 S1	80 oct.Pole line NW,SW.
Crystal City	1.8 N;RR W	600	32 S1	80,91 oct.Pole line NE,NW.
Cuero	3.1 N;RR SE	195	53	
Edna	1.5 ENE;RR NW	60	25 S1	73 oct.Live stock on fld.
Elsa	1 SSE;RR N	70	21 S6	73 oct.Crop dusters.
Foster (Victoria)	6.5 NE;RR S	104	52h	
" #4 (Victoria)	12.5 NNW	186	56h	
Fox (Raymondville)	1 WSW;RR S	40	26 S2	73,80 oct.Poles W,SE.
Freer (NC)	3.8 NNW;hwy E	375	28	Trees sur fld.
Harlingen, com.	1.8 SSW;hwy E	41	18 S1	73 oct.
" com.	5 NW;RR SW	40	13	Pole line S.
" mun.	3.5 NE;rd S	35	60h L5 S4	80,91 oct.Lgts prior req.
Hunt (Portland)	2 WNW;RR ESE	35	16 S5	80 oct.
Indianola (Magnolia Beach)	2 SW;hwy N	17	34	PRIVATE.
(P) INTERNATIONAL (Brownsville)	4.5 E;hwy N	22	59h R3 L5 S6	73-100 oct.ARPT OF ENTRY.
Kalher (Alamo)	4 NNE;RR W	90	20 S1	73 oct.Poles sur fld.
Kenedy	1.4 ESE;RR N	270	19 S2	80 oct.
★ Kingsville Int,11,JI-PV	3.5 S;RR W	58	26 L3	
(N) " NAAS (North) (N)	3.5 ESE;hwy NW	47	61h	INACTIVE.
(N) " NAAS (South) (N)	3.5 SE;hwy W,N	51	61h	INACTIVE.
Lake Jackson (Freeport)	9.5 NW;hwy E	20	26	Cattle on fld.Trees SW.
Lake Mathis (Mathis)(NC)	5 WSW;RR SE	161	20	
La Laja (Delores)(NC)	1.5 NNE;riv SW	475	18	PRIVATE.15-20' brush W.S.
(A) LAREDO AAF (A)	3.5 NE;hwy NNE	512	66h R1 L5	INACTIVE.B2 lgts for Airlines.
Los Fresnos	0.8 SSE;RR W	35	24 S1	73,80 oct.Pole line W.
McAllen	1.6 SSW;hwy N	115	29 S6	73,80 oct.Poles E,NE.
Magic Valley (Mission)	1.5 SSW;lake W	135	21 S6	73 oct.No sto.Poles E.
(A) Matagorda Island (A)		7	4Ch	9 SSW Port O'Conner.INACTIVE.
Matagorda-Peninsula (Matagorda)	6.5 E Port O' Conner	5	4Ch	
Mauldin (Brownsville)	4.4 NNW;RR W	22	35 S6	80,91 oct.Poles W.
Mid-Valley (Weslaco)(NC)	1.7 NE;RR W	70	25 S1	80 oct.Pole line NW,SW.
Moore (Mission)	12 N;RR E	216	50h	
" #1 (Mission)	10 N Edinburg	80	40h	
" #3 (Mission)	5 N LaGrulla	300	30h	
Old Ocean	1 ENE;hwy N	60	35 S1	80 oct.Cattle on fld.
Palacios	2.7 WNW	13	50h R1 S1	80 oct.
★ Pawnee Int,22,JI-FV	5 WNW;RR W	368	30 L3	
Poteet	0.6 SW;RR E	300	13 S2	73 oct.
★ Raymondville Int,5,JI-FV	3.5 NNE;RR W	34	29 L3	
(P) Rockport	4.3 N;bay W	23	45h	
(N) Rodd NAAS (Corpus Christi)(N)	9.8 S;RR NE	20	51h R1 L5 S4	91 oct.No storage.
Rooke (Refugio)	3.2 WSW;RR E	46	30 S1	73 oct.Cattle on fld.Twr NW.
San Benito,2,JI-FV	1.5 E;RR SW	31	26 L3 S6	73,80 oct.
Shary (Mission)	1 NW;RR E	145	30 S4	73,80 oct.
Sinton	1.3 E;RR NW	27	48 S6	80,91 oct.No storage.
Stockton (Falfurrias)	2 NW;RR E	100	27 S1	80 oct,Lake SW.
Tanner Sea & Land Plane Base (Port Lavaca)	3 S;hwy S	12	22 S1	80 oct.Pwr line sur fld.
Travland (Beeville)	2 NW;RR E	225	19 S2	80 oct.Poles E.
Victoria	5.5 N;hwy SW	107	25 S6	80 oct.
(N) Waldron NAAS (Corpus Christi) (N)	12 SSE;hwy NNE	25	50h R1 L5 S4	91 oct.No storage.
Weisman (Kingsville)	2.5 NNE;RR S	60	19 S4	Ltd 80 oct.Poleline S,SW,SE.
Wormser (Laredo)	4 SE;hwy W	440	26 S1	80,91 oct.
Worsham (Taft)	0.8 ENE;hwy SW	54	25 S6	80 oct.
Port Isabel	10 NW	12	48h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

CORPUS CHRISTI




ABILENE 95
FORT WORTH 95
BIG SPRING 21
GOLDSMITH 16H S
GORMAN 26 S
STEPHENVILLE MUN 35 S
LOYD WINES
BROWNWOOD MUN 50H
BROWNWOOD
HAMILTON 47 S
BRUCE
GOODFELLOW AAF - 1879
85H L S-396 (126.1R)
GOODFELLOW AAF
227
MILLER 31 S
CURTIS 42 S
EDEN
FORT WORTH
SAN ANTONIO
LAMPASAS CO 42 S
BLANET
HOUSTON 118
LLANO CO 40 S
BLUE 90
130
LOUIS SCHREINER 44H L S
SPRING BRANCH
SAN MARCOS
266
ALAMO
344
(116.1)
SAN MARCOS 29 L S
SAN MARCOS AAF-586
65H L S-317
KLEAR SPRINGS NO 3
54H L
SEGUIN 29 S
SEGUIN NO 1
54H
MEDINA
SAN ANTONIO
254
(116.1)
RANDOLPH AAF
359
FOR DETAILS IN SAN ANTONIO AREA SEE CHART 142
RED 32
CORPUS CHRISTI 114
TO LAREDO
PLEASANTON
EL PASO 79
AUSTIN 281
HOUSTON 118
SCALE OF MILES
10 0 10 20 30
260
350
234
264
354
322
R EXTREMELY HAZARDOUS
U USABLE WITH CAUTION
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
HEAVY LINES ON SIDES OF BASIC MEA ARE ALTERNATE 'B' BOUNDARIES.

SAN ANTONIO

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMO (San Antonio)	344(JR)(116.1)	BMLZ-VDT	(4); 116.1
GOODFELLOW (San Angelo) (Army)	227 (DIP)	BMRLZ	(3)
Goodfellow Field	396 (126.18)	CA; 329°, 2.5	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
SAN ANTONIO (Kelly)	254(ZN)(116.1)	SBRAZ-VD,107°,1.8	(4); 116.1
SAN MARCOS (Army)	266 (DMS)	MRLWZ	
San Marcos AAF	317	CA; 170°, 4.5	(3); 266 (days only)
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

AIRPORT CITY NAME	CLASS	ELEV.	LOCATION	REMARKS
Ballinger	2.5 NW;RR E	1710	20 S1	80 oct.Pole line SSW,SSE.
Bandera	3 SE;hwy NNE	1125	27 S6	80 oct.Trees E.
Brackettville	2.6 W;hwy N	1105	17 S1	Ltd 80 oct..
Brownwood	1 S;hwy W	1310	22	Poles SE,ESE,E.
(A) " mun.	6.3 NNE;RR S	1386	50h	INACTIVE.
Bruce (Ballinger)	4.5 SSW;RR NW	1731	23h	Allway: 7497 x 5280'.
Burnet	2 NE;RR W	1325	21 S1	80 oct.Pole line SW.
C-B Ranch (Ft.McKavett)	1.5 W;rd S	2150	32 S1	80 oct.Livestock on fld.
(A) Clear Springs #5 (New Braunfels) (A)	4.8 E;riv SW	640	54h L	Ctc lgts only.
Coleman	1.7 NE;RR S	1685	16h S6	80,91 oct.Use rnwys only.
Comanche (NC)	1.7 NNW;hwy SW	1500	14	
Curtis (Brady)	3 N;hwy SE	1830	42 S1	Ltd fuel.
Eden	1 NW;hwy E	2050	15 S1	73 oct.Trees NE,SW.
(A) Fort Clark(Brackettville)	1.5 SW;rd E	1105	30	(A)
Garner (Uvalde)	2.7 E;hwy N	930	17h S1	80 oct.
(A) Goodfellow (San Angelo)(A)	3 SE;ros N,W	1876	55h R2 L5 S6	73,91,100 oct.JP-1.
Gorman	1 S;RR NE	1400	26 S2	80 oct.Poles NNE.
Hamilton	2.3 SSW;hwy E	1250	47 S6	80 oct.Fence sur fld.
Hondo	2.1 NW;RR S	929	61h	
Lampasas Co. (Lampasas)	6 NW;RR S	1480	42 S2	80 oct.
Llano County (Llano)	2.4 NNE;riv NE	1029	40 S1	73 oct.
(P) Louis Schreiner(Kerrville)	3.9 SE;RR SW	1590	44h L5 S6	80 oct.
Loyd Hines (Dublin)	1.3 NW;RR SW	1260	18 S1	73 oct.Poles NW,SW,SE.
Mason County (NC)	3.2 ESE;hwy N	1500	44	
Miller (Leaday)	1 S;riv W	1525	31 S6	73 oct.No storage.
North Concho (San Angelo)	1.7 WNW;RR E	1850	28 S4	80 oct.Poles sur fld.
Riomedina (Castroville)	4.5 N;riv W	855	45	(NC)
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S2	80,91 oct.
(A) San Marcos AAF (A)	5 E;riv W	584	65h R2 L5	
★ " Int,31B,JI-FV	2 SE;hwy N	577	29 L3 S6	73,80 oct.Pole line NE.
Schneider (Seguin)(NC)	2.2 WNW;RR N	520	23	Pole line N.
Seguin	3.3 WSW;riv E	400	29 S1	73,80 oct.Pole line NW.
(A) " #1 (A)	3 E;rd N	530	54h	
Sherril (Rock Springs)(NC)	4 W;hwy S	2400	21	Cattle on fld.
Sky Harbor (San Angelo)	4.6 NNW;RR SW	840	30 S1	80 oct. Pole line W,NW.
South Coleman (Coleman)	1 S;hwy NW	1710	21	Closed - not maintained.(NC)
Stephenville	1.5 E;hwy S	1310	30 S6	80 oct.
White (Brady) (NC)	10 W;RR N	1550	73	
Winters	2 NW;RR E	1860	29 S1	73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities, S-servicing. (See page XIII)(NC)-Not charted.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCOLA FM	(-)	FM, 226°, 15	Houston
AUSTIN (Robert Mueller Arpt)	281(XN)(116.1)	SBMRLZ-VDT,117°,2	(4); 116.1
BERGSTROM FIELD (Austin)	396 (126.18)	CM	(4); 126.18
HOUSTON	332(HO)(116.1)	SBRAZ-VDT	(4); 116.1
Houston Airport	278 (126.18) (118.5)	AC; 309°, 2.5	(4); 131.9,126.18,118.5
HOUSTON LFM	(- - - -)	LFM, 309°, 5.5	Houston
NAVASOTA (Int)	212(NT)(116.1)	BMRL-VDT,180°,1.3	(4);116.1
RICHMOND	391 (UT)	MRLW	
ROBERT MUELLER ARPT, (Austin)	272 (118.7)	C	(4);118.7,126.18,131.9,140.1
WACO (Num)	385(WC)(116.1)	SBRAZ-VDT,9°,2.6	(4);116.1
WEBSTER FM	(- - - -)	FM, 129°, 9.3	Houston
YOAKUM (Int)	236 (YK)	HW-T,352°,2.8	

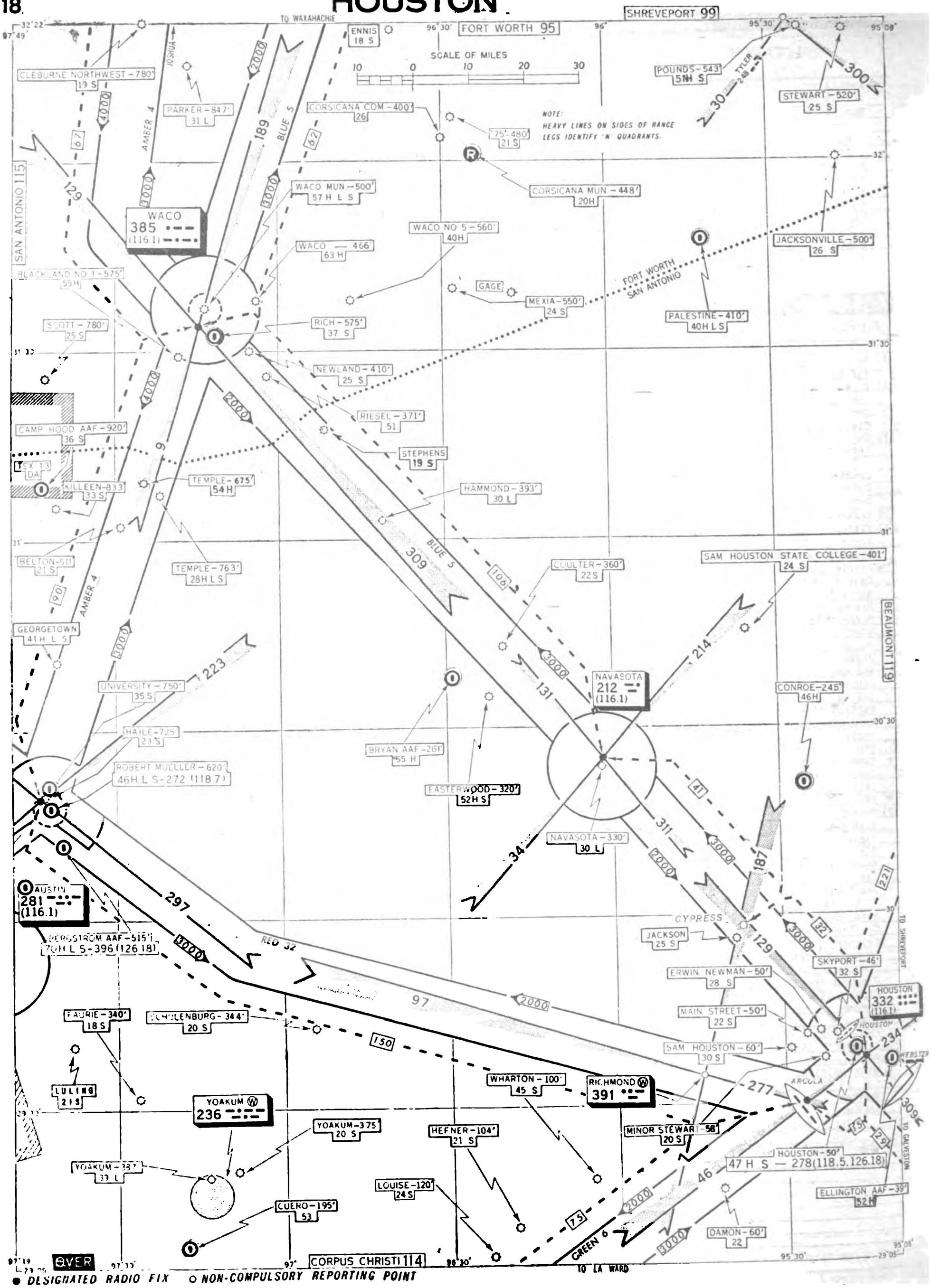
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

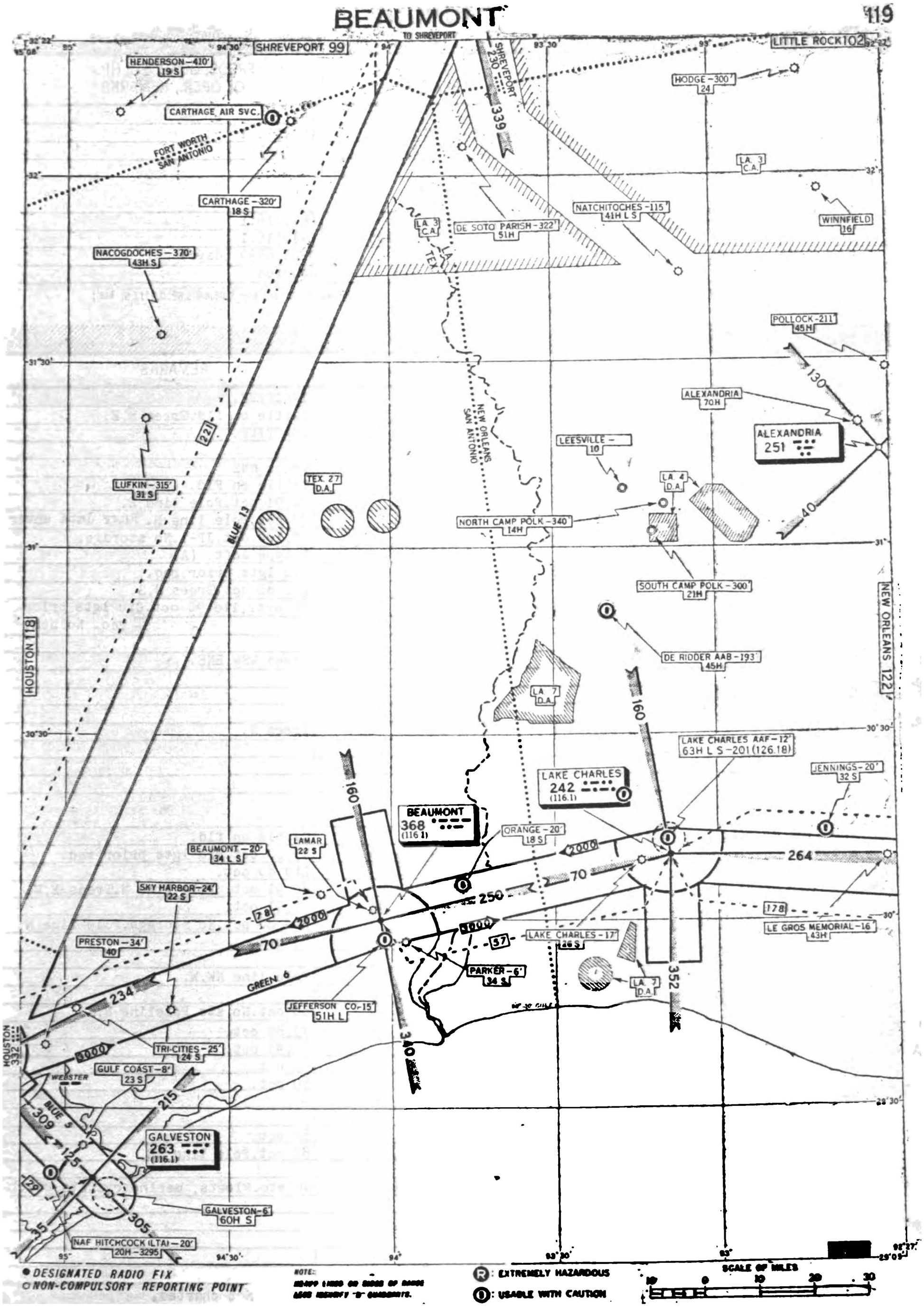
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Belton	1.6 WSW;hwy W	511	21 S1	73,80 oct.No storage.
(A) Bergstrom (Austin) (A)	7 SE	515	70h R1 L5 S6	73,100 oct,No storage.Pole NE,NW.
Blackland #1 (Waco)	11 WSW;RR S	575	55h	
(A) Bryan AAP (A)	7 SSW;riv SSW	261	55h	INACTIVE.
Cameron Airpark (NC)	1.7 N;RR,hwy W	402	29	Bldg NNE
(A) Camp Hood Landing Field (Killeen)	2 NE	920	36 S1	CLOSED. (A)
Cleburne Northwest (Cleburne)	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(P) Conroe	3.5 NE;hwy W	245	46h	
Corsicana, com.	2.8 SW;bet rds	400	26	
mun.	5.6 SE;RR E	448	20h	UNUSABLE.Acft parked entire fld.
Coulter (Bryan)	4 NE;hwy NW	360	22 S6	80 oct.5' fence SW.
Cuero	3.1 N;RR SE	195	53	
Damon	3 ESE;hwy WSW	60	22	5' fence sur fld.
(P) Easterwood (College Station)	2.8 SW	320	52h S6	80 oct.
(A) Ellington (Houston)(A)	15 SE;RR W	39	52h	INACTIVE.
Ennis	1.5 NW;RR E	540	18 S4	Ltd 73 oct.No storage.
Erwin-Newman (Houston)	5 SSW;hwy N	50	28 S6	80 oct.
Faurie (Gonzales)	2 NNE;hwy E	340	18 S2	80 oct.Trees N,S.
Georgetown	3.3 N;hwy E	789	41h L5 S4	80,91 oct.
Haile (Austin)	4.1 NE;RR E	725	23 S6	80,91 oct.Poles ESE.
★ Hammond Int.16,GS-WC	2.5 SSE;RR W	393	30 L3	
Hefner (El Campo)	1.5 WSW;RR SE	104	21 S2	80 oct.Pole line S,SE.
HOUSTON	9 SSE;hwy W	50	47h R2 L5 S6	73,80,91,100 oct.
Jackson (Cypress)	4 SE;hwy S	145	25 S6	80 oct.
Jacksonville	3 N;RR E	500	26 S6	73,80 oct.Pole line ENE.
Killeen	3.6 SE;RR NNE	833	33 S1	73 oct.Sign board N.
Louise	1.6 E;RR W	120	24 S1	Ltd 80 oct.Pole line N,S.
Luling	1.1 SE;hwy NE	418	21 S1	80 oct.Pole lines sur fld.
Madisonville Emergency (NC)	0.8 NW;hwy E	400	18	
Main Street (Houston)	6.5 SW;hwy SE	50	22 S6	80 oct.
Mexia	1 SE;RR NW	550	24 S2	80 oct.
Minor Stewart (Houston)	10 S;RR W	58	20 S6	80 oct.
★ Navasota Int.10,GS-WC	2.5 ENE;RR NNW	330	30 R1 L3	
Newland (Waco)	4.5 SSE;RR NE	410	25 S6	80,91 oct.
Palestine	4.5 WNW;hwy N	410	40h L5 S6	80,91 oct.
★ Parker Int.48,JI-PV	0.6 N;hwy W	847	31 L3	
(P) POUNDS (Tyler)	5.5 W;hwy N	543	51h R1 L5 S1	80,91 oct.Ctc lgts prior req.
Rich (Waco)	3 WSW;hwy SW	575	37 L4 S6	73,80,91 oct.Poles SSE,SE.Fld lgts prior req.
Riesel (Waco)	10.5 SE	371	51	
ROBERT MUELLER (Austin)	3.5 NE;RR SW	620	46h R2 L5 S6	80,91 oct.
St. Edwards (Austin) (NC)	3.5 S	700	22	
Sam Houston (Houston)	10.5 SW;RR S	60	30 S6	73,80 oct.
Sam Houston State College (Huntsville)	2.5 NW;RR E	401	24 S2	80 oct
Schulenburg	2.2 N;hwy W	344	20 S4	73 oct.Pole line W.
Scott (Gatesville)	1.8 E;hwy N	780	25 S1	80 oct.Pole line NW.
Seventy-Five (Corsicana)	1.8 N;RR W	480	21 S6	73 oct.No storage.Poles NW.
Skyport (Houston)	5 S;hwy N	46	32 S4	80 oct.
Sportsman (Houston)	6 ENE;RR N	60	30 S4	80 oct.
Stephens (Marlin)	2 ESE;RR N,SSW	318	19 S2	80 oct.Cattle on fld.Pole W.
Stewart (Tyler)	2.5 E;hwy N	520	25 S6	80 oct.Poles W.
Taylor	2.2 WNW;RR S	520	24 S4	73 oct.
Temple	5.5 NW;rd SW,NW	675	54h	
Temple 40, JI-PV	2 NNW;hwy SW	763	28h L3 S4	73,80 oct.
University (Austin)	6 NNE;RR W	750	35 S6	80 oct.
Waco	7 NNE;bet RRs	466	63h	
WACO MUNICIPAL	6 NW;lake S	500	57h R1 L5 S4	80,91 oct.
" #5 (Prairie Hill)	2 S;hwy N	560	40h	
Wharton	1.8 ENE;RR N	100	45 S2	80 oct.
Yoakum	4 N;hwy W	375	20 S6	80 oct.
★ " Int.7,JR-HU	5 NW;hwy S	387	39 L3	
→ Gage (Teague)	1.7 N		22 S2	80 oct.Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII) (NC)-Not charted.

HOUSTON


SHREVEPORT 99
FORT WORTH 95
TO WAXAHACHIE
SCALE OF MILES
10 0 10 20 30
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
ENNIS 18 S
CLEBURNE NORTHWEST – 780' 19 S
PARKER – 847' 31 L
CORSICANA COM – 400' 26
75' – 480' 21 S
POUNDS – 543' 5NH S
STEWART – 520' 25 S
CORSICANA MUN – 448' 20H
WACO MUN – 500' 57 H L S
WACO 385 (116.1)
WACO NO 5 – 560' 40H
WACO – 466' 63 H
JACKSONVILLE – 500' 26 S
BLACKLAND NO 1 – 575' 55H
GAGE
MEXIA – 550' 24 S
FORT WORTH SAN ANTONIO
PALESTINE – 410' 40H L S
SCOTT – 780' 25 S
RICH – 575' 37 S
NEWLAND – 410' 25 S
CAMP HOOD AAF – 920' 36 S
TEX 13 DA
KILLEEN – 833' 33 S
TEMPLE – 675' 54 H
RIESEL – 371' 51
STEPHENS 19 S
HAMMOND – 393' 30 L
BELTON – 511' 21 S
TEMPLE – 763' 28H L S
SAM HOUSTON STATE COLLEGE – 401' 24 S
COULTER – 360' 22 S
GEORGETOWN 41H L S
UNIVERSITY – 750' 35 S
NAVASOTA 212 (116.1)
CONROE – 245' 46H
HAILE – 725' 23 S
BRYAN AAF – 261' 55 H
ROBERT MUELLER – 620' 46H L S – 272 (118.7)
EASTERWOOD – 320' 52H S
NAVASOTA – 330' 30 L
AUSTIN 281 (116.1)
PERRYSTROM AAF – 515' 20H L S – 396 (126.18)
JACKSON 25 S
CYPRESS
ERWIN NEWMAN – 50' 28 S
SKYPORT – 46' 32 S
HOUSTON 332 (116.1)
MAIN STREET – 50' 22 S
SAM HOUSTON – 60' 30 S
FAURIE – 340' 18 S
SCHOLENBURG – 344' 20 S
WHARTON – 100' 45 S
RICHMOND 391
LULING 21 S
YOAKUM 236
YOAKUM – 375' 20 S
HEFNER – 104' 21 S
MINOR STEWART – 58' 20 S
HOUSTON – 50' 47 H S – 278 (118.5, 126.18)
YOAKUM – 33' 37 L
LOUISE – 120' 24 S
CUERO – 195' 53
ELLINGTON AAF – 39' 52H
DAMON – 60' 22
CORPUS CHRISTI 114
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
TO LA WARD
TO GALVESTON
TO SHREVEPORT
SAN ANTONIO 115
BEAUMONT 119
AMBER 4
BLUE 5
RED 32
GREEN 6
TYLER
ARCOLA
HOUSTON

BEAUMONT



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON EDGE OF RADIO AREA INDICATE "B" BOUNDARYS.

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

BEAUMONT

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	251 (DAI)	MRAWZ,310°,5.7	(4)
LAKE CHARLES	242(LC)(116.1)	SBRAZ-VDT	(4);116.1
Lake Charles AAF	201 (126.18)	CA:340°,2.3	(4) only
TEXAS			
BEAUMONT (Jefferson Co.)	366(JU)(116.1)	BMRLZ-VDT,160°,3.8	(4);116.1
GALVESTON	263(GS)(116.1)	SBMRLZ-VDT,125°,4.2	(4);116.1
HITCHCOCK NAF-LTA-HTA	3295	CN	3105,6390 (days)
WEBSTER FM	(- -)	FM,129°,9.3	Houston

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — LOUISIANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ALEXANDRIA AAF (A)	5.5 W;riv 2N	86	70h	INACTIVE.
De Quincy (NC)	1.5 SW;RR NW	78	24	Cattle on fld.Trees N,E.
(A) De Ridder AAB (A)	3.5 WSW;RR S	193	45h	INACTIVE.
(P) De Soto Parish(Mansfield)	4.3 NW;hwy S	322	51h	
Hart (Many)(NC)	1.8 SSW;RR E	242	24	Trees NNE.
Hodge	0.5 ENE;hwy NW	300	24	Cattle on Fld.
Jennings	1.4 NNW;RR SW	20	32 S2	80,91 oct.Pole line E.
Lake Charles	5.2 SSW;hwy N	17	26 S6	80 oct.Pole line N. Rnwy data unver
(A,N) LAKE CHARLES AAF (A)	4 ESE;RR NE	12	63h R2 L5 S6	91,100 oct.JP-1.No storage.
(A) Leesville Landing Strip	2 NW		10	L-type acft. (A)
Le Gros Mem'l (Crowley)	6.5 WSW;RR N	16	43h L5	Ctc lgts prior req.
McArthur (Alexandria)	2.8 W;hwy E,N	86	12 S1	Ltd 80 oct.Trees N,S.
(P) Natchitoches	1.5 SSW;RR E	115	41h L5 S6	80 oct.,ltd 90 oct.Ctc lgts prior
(A) North Camp Polk Landing Strip (Camp Polk)(A)	6 NE	340	14h	req. No bcn.
Oakdale (NC)	3 W;hwy N	123	27	Trees WSW,ENE.
Pollock	4.5 SW	211	45h	
(A) South Camp Polk Landing Strip (Camp Polk)(A)	Adj E	300	21h	
Winnfield	3 NW;hwy E	600	16	Trees N.
TEXAS				
Angelina Co. (Lufkin)(NC)	7.5 SSW;RR W	288	42	Cattle on fld.
Beaumont	6.8 W;bet RRs	28	34 L3 S6	73,80 oct.Fld lgts prior req.
Carthage	2 E;hwy N	320	18 S1	Ltd 80 oct.
" Air Service	1.3 W;hwy N,S	310	30 S2	80,91 oct. Pole line N.Trees E,W.
GALVESTON	3.5 WSW;Gulf S	6	60h R1 S6	80,91 oct.
Gulf Coast (Texas City)	2.8 WNW;hwy N	8	23 S6	Ltd 80 oct.No storage.Pole line N.
Henderson	2.1 WNW;hwy S	410	19 S2	73 oct.
(N) Hitchcock NAF(LTA)(N)	2.3 SW;RR ENE	20	20h R1	
Humphrey (Goose Creek)(NC)	4 NNE;RR E	34	24	Pole line NW,W.
(P) Jefferson Co. (Beaumont)	9.8 SSE;hwy NE	15	51h R1 L5	
Lamar (Beaumont)	4 SE;riv NE	17	22 S4	80 oct.No sto.Poleline N,S.
Lufkin	2 NW;hwy N	315	31 L1 S6	73,80 oct.
Nacogdoches	4 WSW;hwy E	370	43h S5	80,91 oct.
Orange	2.6 W;RR S	20	18 S1	73 oct.
Parker (Port Arthur)	4 NW;RR NE	6	34 S6	80 oct.
Preston (Houston)	2.5 WNW LaPorte	34	40	
Richter (Kirbyville)(NC)	1.5 S;RR E	175	16	
Sky Harbor (Anahuac)	0.3 S;hwy N	24	22 S1	80 oct.
Tri-Cities (Goose Creek)	2.6 N;RR E	25	24 S2	80 oct.Pole line SE.
⊙ Fay Bros. (La Porte)(NC)	2 NE	S.L.	Unl S4	No sto.Floats, marine ry.Data unver.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

NEW ORLEANS

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARATARIA FM	(- -)	FM, 171°, 20	New Orleans
BATON ROUGE (Harding)	347 (RX)	MRLWZ, 128°, 3.4	
LAFAYETTE	227 (UG)(116.1)	MHVT	(4); 116.1
LA PLACE FM	(- - -)	FM, 271°, 16.8	New Orleans
MADISONVILLE FM	(- - - -)	FM, 353°, 32	New Orleans
MOISANT AIRPORT (New Orleans)	278 (118.3)(126.18)	C (ILS)	(4); 131.9, 118.3, 126.18
NEW ORLEANS (Moisant)	339 (MO)(116.1)	SSRAZ-VDT, 271°, 3.2	(4);116.1
New Orleans Airport	382 (126.18)	CA	(4) only.
New Orleans NAS	323 (142.74)	CN	(3); 142.74 (8-sunset)
NEW ORLEANS FM	(-)	FM, 63°, 11	New Orleans

MISSISSIPPI

JACKSON AIRPORT	278(126.18)(118.7)	C	(4);126.18,118.7,131.9

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
MOISANT, LA.	109.9	333.8	100° Mag.	IM ·····(.04)	MM	OM --(4.5)	
					MKR	CMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495,6210 kcs.; (4)-3105.4495,6210.3117.5 kcs.;
¹Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — LOUISIANA

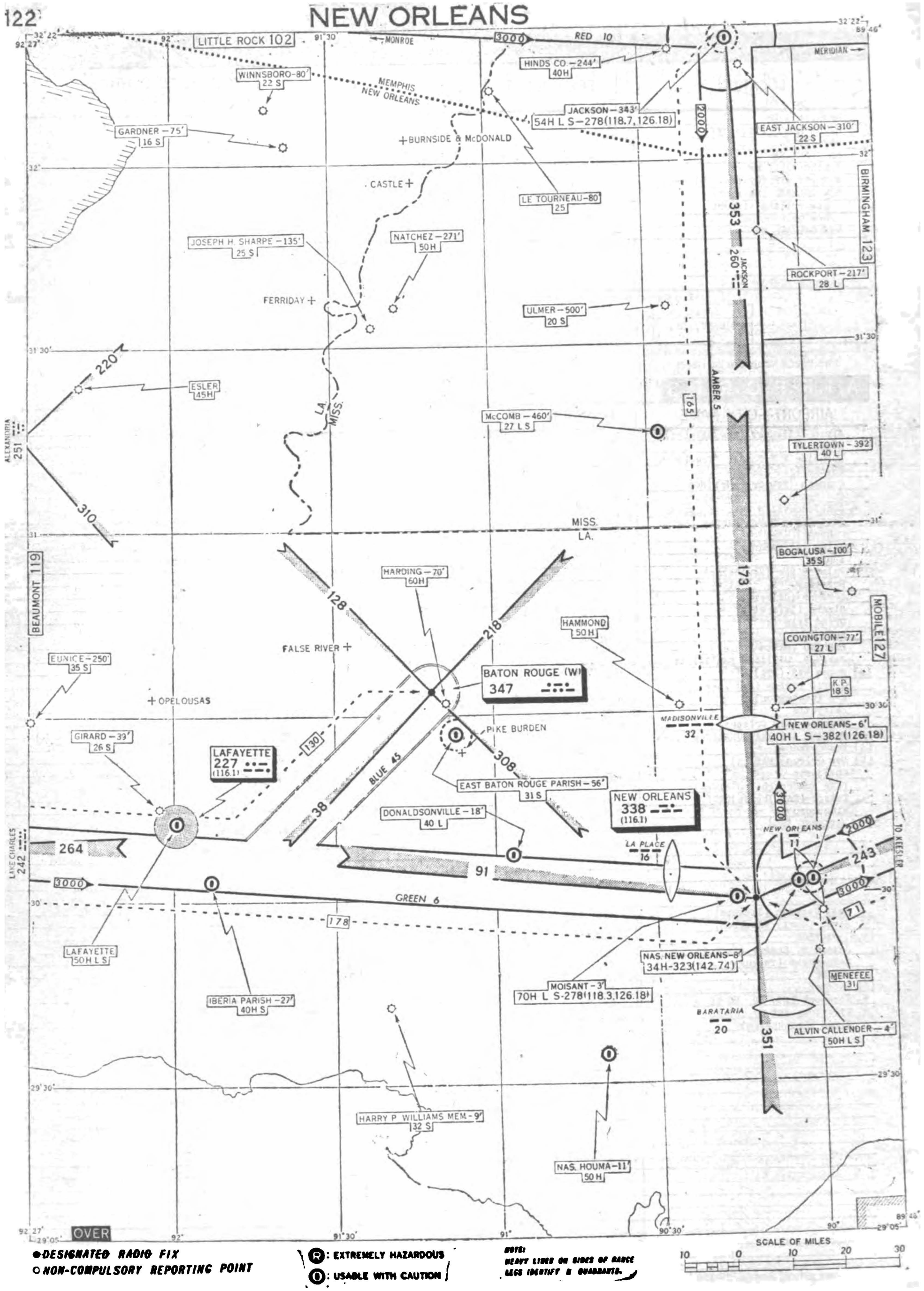
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alvin Callender (New Orleans)	9 SSE; RR E	4	50h L5 S4	73, 80, 91 oct.
Bogalusa	2.4 N; RR E	100	35 S6	73, 80 oct. No sto. Pole S.
Burnside & McDonald (Kewellton)	1 WSW	77	50	Lgts not verified.
Castle (St. Joseph)	2 N	75	20 S4	80 oct. No sto. Data not verified.
Chapman (New Orleans)(NC)	8.5 NE; lake N	4	22	35' trees NW. Cattle on field.
* Covington Int. 3, NO-LS	6 NNE; hwy W	77	27 L3	Pole line W.
* Donaldsonville Int. 26, MU-NO	3 ENE; hwy W	18	40 L3	Levee W.
East Baton Rouge Parish (Baton Rouge)	4 E; hwy N, E	56	31 S4	80, 91 oct. Pole line S.
Esler (Alexandria)	11 NE; Bayou S	92	45h	
Eunice	1.7 W; hwy N	250	35 S2	80 oct.
False River (New Roads)	1.5 W	30	25 S1	80 oct. Data not verified.
Ferriday	1 N	55	18	Data not verified.
Gardner (Gilbert)	1 E; hwy S	75	16 S1	Ltd 73 oct.
Girard (Lafayette)	2.5 NW; hwy E	39	26 S6	80, 87 oct. Obsts sur fld.
Grand Isle (NC)	2.6 NE; hwy NW	4	22	
Hammond	2 ENE; RR S	40	50h	
HARDING (Baton Rouge)	5.8 NNE	70	60h	E of river bend.
Harry P. Williams Mem'l(Patterson)	2 WNW; bet RR,hwy	9	32 L2 S2	73 oct. No ben. Lgts prior req. Pole line NW.
(N) Houma NAS (LTA)(N)	3.1 ESE; RR NE	11	50h	INACTIVE.
Iberia Parish (New Iberia)	5 NW; RR NE	27	40h L1 S6	73-91 oct. Ben prior req.
K-P (Covington)	1.6 NW; RR S	27	18 S2	80 oct.
Lafayette	1.5 SE; RR W	40	50h R1 L5 S1	91 oct. Pole line S.
Marrero (New Orleans)	5.2 E; riv S	1	31	Pole line S.
(H) MOISANT INTERNATIONAL(New Orleans)	11 W; riv S	3	70h R3 L5 S1	80,91,100 oct. Restricted to Navy, Airlines, Army.
(A) New Orleans	6.5 NNE; RR S	8	40h R1 L4 S4	91, 100 oct; 100 oct Govt contract.
(K) New Orleans NAS (K)	4.6 N; on lake	7	34h R1	Tower NE.
Opelousas	1.5 NE	35	18	Data not verified.
Pike Burden (Baton Rouge)	5 SE	35	50 S1	80 oct. Data not verified.
Texaco (New Iberia)(NC)	2.6 N; hwy W	21	18	Poles W, WSW. Cattle on fld.
Wimsboro	1.2 ESE; RR SW	80	22 S1	80 oct.
‡ Westwego (NC)	1 E	S.L.	53	PRIVATE. May Brothers.

MISSISSIPPI

East Jackson (Jackson)	3.1 SSE; hwy NW	310	22 S6	80 oct. Trees N.
Hinds County (Jackson)	12.8 W	244	40h	
(A,H) JACKSON	3 NW; RR SW	343	54h R2 L5 S6	80, 91, 100 oct. Tank, stack E.
Joseph H. Sharpe (Natchez)	1.8 ESE; RR S	135	25 S2	73 oct.
LeTourneau (Yokena)	2.5 NW; riv W	80	25 L2 S4	No fuel. Lgts prior req. Caution - wet.
McComb	1.3 NW; hwy E	460	27 L3 S6	80,91 oct. No ben; lgts prior req. Obsts sur fld.
(P) Natchez	7.1 ENE; RR S	271	50h	
* Rockport Int. 12, NO-LS	1.5 E; riv W	217	28 L3	
* Tylertown Int. 7, NO-LS	6 SE; road E	392	40 L3	
Wiser (Brookhaven)	1.5 NNE; RR W	500	20 S4	73 oct. No sto. Pole line W.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page 121) (NC)-Not charted.

NEW ORLEANS



● DESIGNATED RADIO FIX

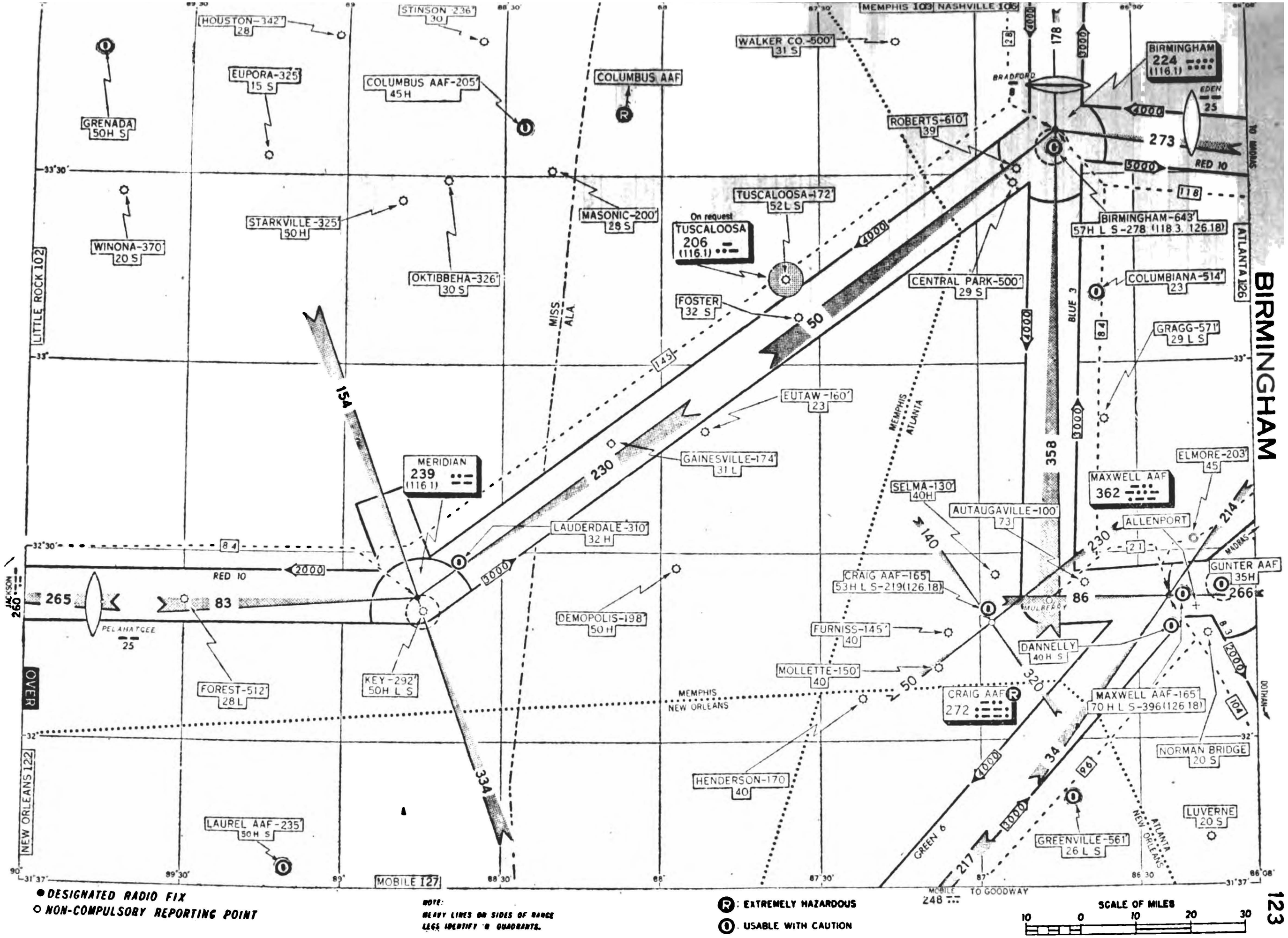
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 8 QUADRANTS.

BIRMINGHAM



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.

Ⓡ : EXTREMELY HAZARDOUS

Ⓞ : USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

BIRMINGHAM

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BIRMINGHAM	224(BH) (116.1)	SBRAZ-VDT	(4); 116.1
Birmingham Airport	278 (126.18) (118.3)	AC, 178°, 3	(4); 116.1,140.1,131.9,126.18,118.3
BRADFORD FM	(-)	FM, 358°, .8	Birmingham
CRAIG (Selma)(Army)	272 (DPP)	MRLZ	(3);126.18
Craig Field	219 (126.18)	CA; 320°, 2.5	(3); 126.18
EDEN FM	(- -)	FM; 93°, 25.1	Birmingham
GUNTER FIELD(Montgomery)	201 (126.18)	CA	INACTIVE
MAXWELL (Montgomery)(Army)	362 (DXW)	SBRAZ	(4)
Maxwell Field	396 (126.18)	CA; 86°, 2	(4); 126.18
TUSCALOOSA	206(TU)(116.1)	MHVT	(4); 116.1

MISSISSIPPI

MERIDIAN (Key)	239(UM)(116.1)	SBRAZ-VDT;154°,2.8	(4); 116.1
PELAHATCHEE FM	(- -)	FM, 85°, 25	Jackson

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allenport (Montgomery)	4 SE	175	30 S5	80,91oct.183' twr NW.Data unver.
Autaugaville (Selma)	20.5 W	100	73	
(A) BIRMINGHAM	5.5 NE;RR S	643	57h R2 L5 S3	73-100oct.JP-1.Rdo rec req.
Central Park(Birmingham)	5.2 SW;RR E	500	29 S6	80 oct. No sto.
Columbiana	1.5 WNW	514	23	Lgt acft only.
(A) Craig (Selma)(A)	4.8 SSE	165	53h R2 L5 S6	91,100 oct.
DANNELLY (Montgomery)	7.5 SW;RR E	219	40h S1	80,91 oct.
(P) Demopolis	7.8 WSW;riv NW	198	50h	
(A) Elmore (Montgomery)(A)	10 N;hwy N	203	45	INACTIVE.
Eutaw	2 SE;hwy N	160	23	Pole line W.
Foster(Tuscaloosa)	5.5 S	236	32 S4	Ltd 73 oct.Pwr line E.
Furniss (Selma)	10 SSW	145	40	
* Gainesville Int,55,FV-AG	2 S;hwy W	174	31 L2	
Gragg,27,PS-TM(Clanton)	2.2 NE;creek S	571	29 L3 S2	80,91oct. Hill E.
Greenville,24,NO-AG	5.5 WNW;hwy S	561	26 L2 S4	80 oct.
(A) Gunter (Montgomery)(A)	5 NE	221	35h	INACTIVE.
Henderson (Selma)	29 SW; riv W	170	40	
Luverne	1.7 NNW;RR E	300	20 S1	73 oct.Pole line W.
(A) Maxwell(Montgomery)(A)	3 WNW	165	70h R2 L5 S6	73,91,100oct.No sto.JP-1
Mollette (Selma)	16.2 SSW	150	40	
Norman Bridge(Montgomery)	5.8 S;RR E	172	20 S4	73 oct. No sto.
Roberts (Birmingham)	3 W;RR N	610	39	
Selma-Selfield (Selma)	4 ENE;RR S	130	40h	
Tuscaloosa,59,FV-AG	3 NW;RR N	172	52 R1 L3 S6	73,80 oct.Pole,trees N.
Walker County (Jasper)	2.5 NNE;RR W	500	31 S2	80 oct.

MISSISSIPPI

(A) Columbus AAF (A)	10 N;RR E	205	45h	INACTIVE.
Eupora	1 NE;hwy S	325	15 S2	80 oct.Hill NW.
Forest,46,FV-AG	1 W;RR S	512	28 L3	
Grenada	3 N;RR S	197	50h L5 S2	80,91 oct.Ctc lgts req.
Houston	1.5 SW;hwy SE	342	28	Trees W,SE,N; bldg SE.
KEY (Meridian)	3.5 SW;RR E	292	50h R1 L5 S4	80,91 oct. Ctc lgts prior req.
Lauderdale Civil(Meridian)	9 NNE;hwy E	310	32h	
(A) Laurel AAF	3 SW;RR SE	235	50h S2	80,91 oct. civil acft.Army inactive.
Masonic (Columbus)	3.9 ENE;hwy S	200	28 S2	80 oct.
O'Keefe (Newton)(NC)	1.5 ESE;RR N	363	26	Trees NE,SE,NW.UNUSABLE.
Oktibbeha (Starkville)	7.5 ENE;hwy E	326	30 S6	73 oct.
(P) Starkville (Columbus)	2 SW Starkville	325	50h	
Stinson (Aberdeen)	3 NW;hwy NE	239	30	
Winona	1.3 SSE;RR W	370	20 S4	73,91oct. Lgt acft only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

ATLANTA

RADIO — ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANNISTON	206 (K 1)(116.1)	MHVT	(4); 116.1
TUSKEGEE (Army)	347 (DNL)	BMRLZ	
Tuskegee AAF	219 (126.18)	CA;270°,3.8	(3); 126.18 (7-19)
GEORGIA			
ALBANY (Turner Aux. Fld. #1)	254 (GY)(116.1)	BMRLZ-VDT;298°,2.3	(4); 116.1
ATLANTA	266 (AG)(116.1)	SBRAZ-VDTX	(4); 116.1
Atlanta Airport	278 (118.7)(126.18)	AC (ILS);331°,1.9	(4);126.18,142.74,118.7, 131.9, 126.18
Atlanta (Navy)	323 (NCQ)	MRLWZ	
Atlanta NAS	356 (142.74)	CN; 86°,3.2	3105,4495,3117.5,142.74
EAST POINT LFM	(- - - - -)	LFM, 331°,6.5	Atlanta
JONESBORO	219 (H)	FMK; 133°,11	Atlanta
JONESBORO FM	(- -)	FM, 133°, 11	Atlanta
LAWSON, (Columbus)(Army)	379 (DVL)	MRLZ	
Lawson Field	278 (126.18)	CA; 21°, 3.3	(3); 126.18
MACON (Herbert Smart)	209 (UN)(116.1)	BMLZ-VDT;246°,4.8	(4); 116.1
MADRAS FM	(- - -)	FM, 230°, 22.8	Atlanta
MARIETTA AAF	396 (126.18)	CA	4495,6210,126.18 (8-20)
SMYRNA FM	(- - - - - -)	FM, 331°, 22	Atlanta
STONE MOUNTAIN FM	(-)	FM, 55°, 17.25	Atlanta
WARNER-ROBINS (Robins Fld)	284 (126.18)	CA	(3); 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ATLANTA, GA.	109.9		329° Mag.	IM ·····(.02)	MM	OM - - (3.2)
					MMK 201 ···· (.68)	OMK

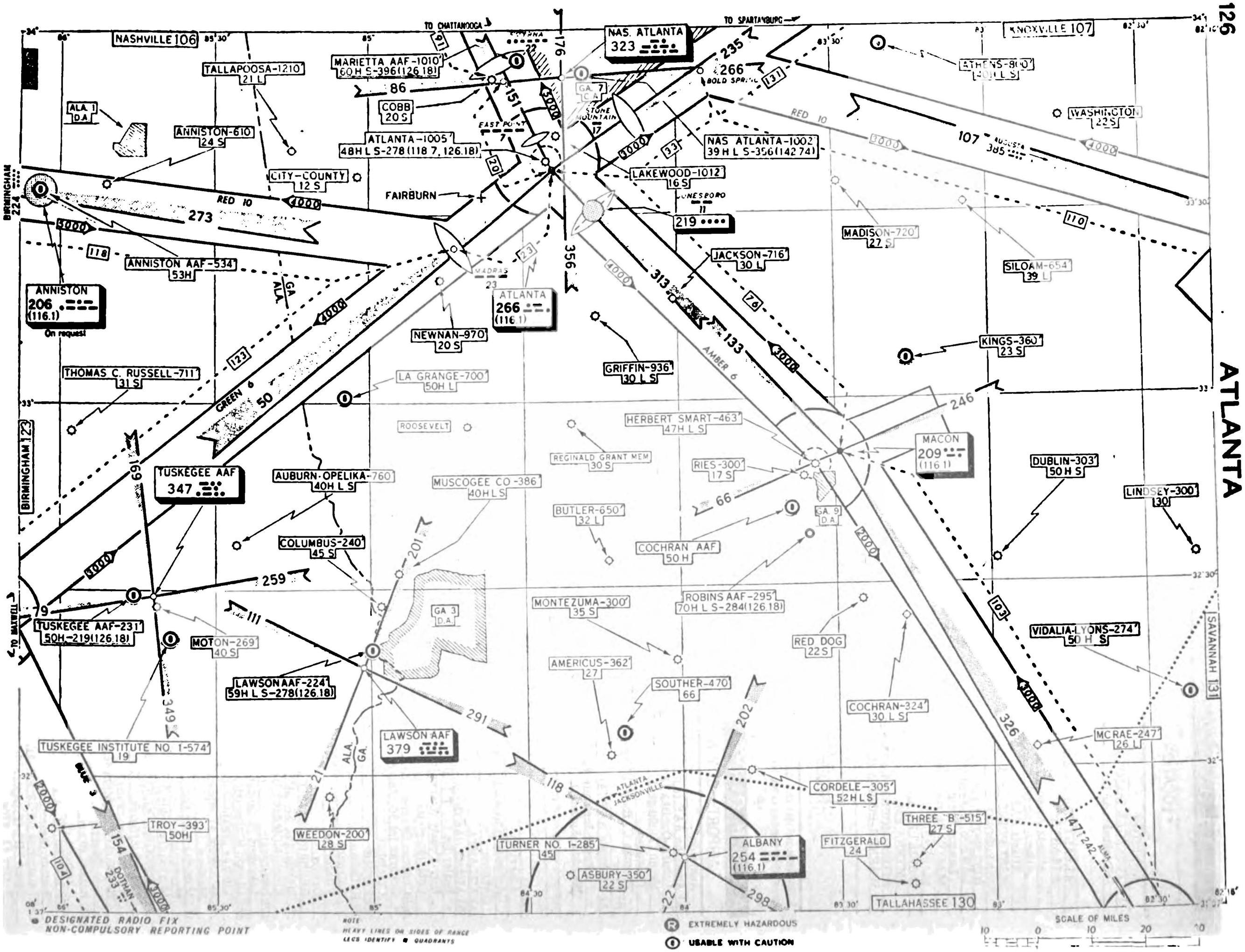
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

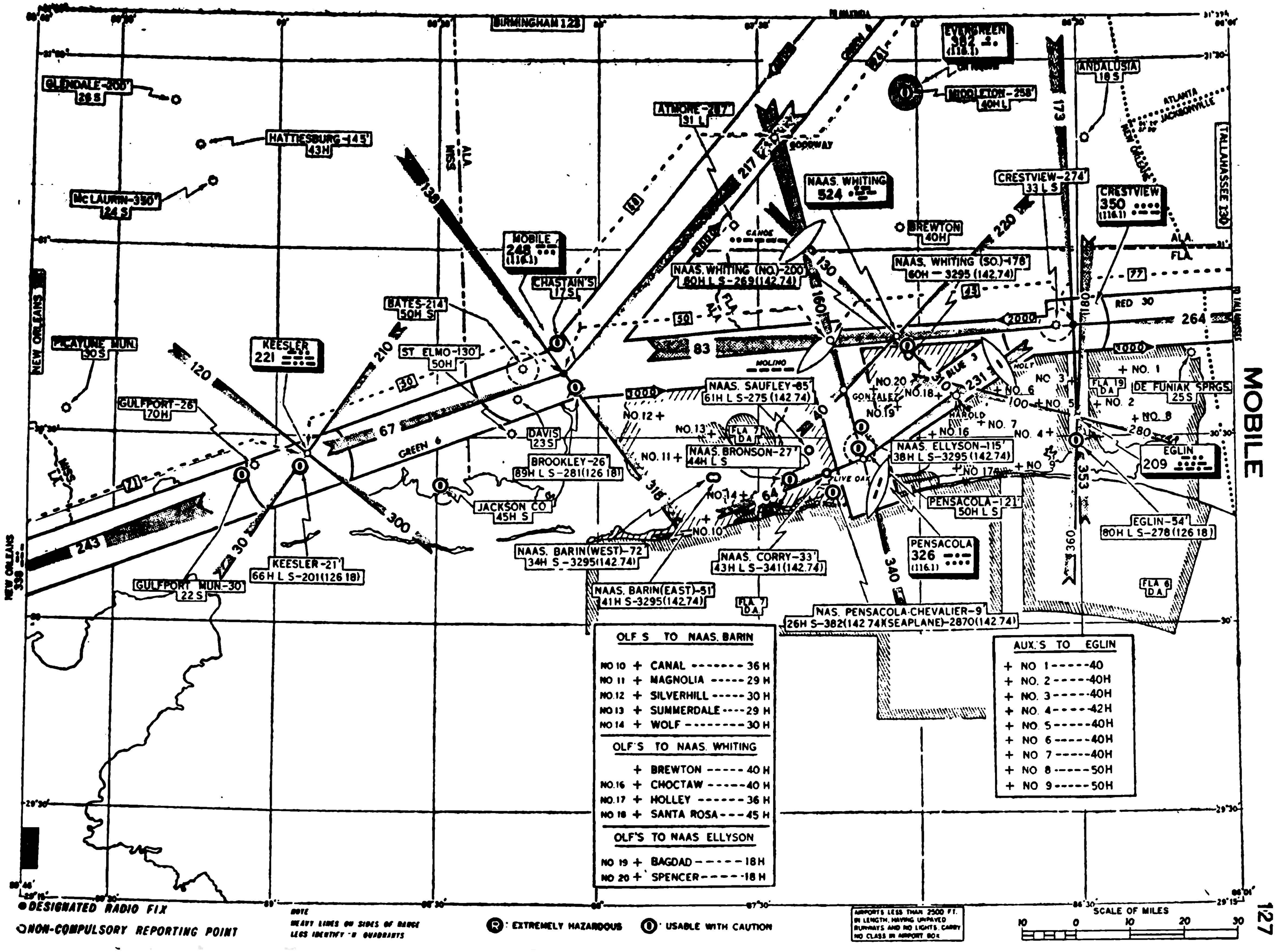
AIRPORTS — ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anniston	5.5 SSW	610	24 S3	80 oct. Pole line W, lgtd.
(A) Anniston AAF (A)	15 SW; hwy N	534	53h R1	INACTIVE.
(P) Auburn-Opelika (Auburn)	2.8 E; RR N	709	40h L5 S5	80 oct. Fld lgts prior req.
Moton (Tuskegee)	3 N; RR,riv E	269	40 S6	73-91 oct. No sto. Twr S end.
Talladega	2.6 NE; RR SE	590	20	Pole line E, hill W.
Thomas C. Russell(Alexander Cy)	1.5 SW; hwy E	711	31 S5	80 oct.
(P) Troy	4.8 NNW; rd E	393	50h	
(A) Tuskegee AAF (A)	7.3 NW; RR S	231	50h R2	INACTIVE.
Tuskegee Institute #1	4 SSE; hwy W	574	19	
Weedon (Eufaula)	4.3 NNE; hwy E	200	28 S2	80 oct.
GEORGIA				
Americus	1.5 S; RR W	362	27	Trees E, W, NE.
Ashbury (Dawson)	5.7 SE; RR N	350	22 S1	Ltd 80 oct. Pole NNW.
Athens	3.5 E; RR N	800	40h L4 S6	80, 91 oct.
(A) ATLANTA	8 S; RR N	1005	48h R3 L6 S6	73-100 oct.Rdo rec req.Trees NW. ARMY INACTIVE
(N) Atlanta NAS (N)	8.5 NNE; hwy SE	1002	39h R2 L6 S6	100 oct. NAFC.
★ Butler Int,14, T I-AG	0.5 NW; RR S	650	32 L3	Poles S.
City-County (Carrollton)	3.3 NE; hwy E	1200	12 S1	Ltd 73 oct.
Cobb (Marietta)	6.4 SSW; rd S	1050	20 S6	Ltd 80 oct.No sto.Trees NW.
(A) Cochran (Macon) (A)	10 S; RR E	352	50h	INACTIVE.
★ Cochran Int,50,MM-AG	5 NE; rd N	324	30 L2 S6	80 oct. Poles NW, NE, S, SE.
Columbus	1.5 SSE; riv SW	240	45 S4	80 oct.
(P) Cordele	1.6 NNE; RR W	305	52h L3 S1	80 oct.
(N,P) Dublin	4.5 WNW; hwy S	303	50h S1	73 oct.
Fairburn	3.5 SW; RR S		24 S2	80 oct.Hi-line SE. Data not verified.
Fitzgerald	2 SSW; RR W,E	365	24	
Griffin	1.5 S;hwy E	936	30 L3 S6	80 oct. Twr E.
HERBERT SMART (Macon)	4 ESE;hwy W	463	47h R1 L5 S6	80,91 oct.
★ Jackson Int, 57, MM-AG	4.6 SW; rd S	716	30 L3	Barn E; bldg W.
Kings (Milledgeville)	1.5 NW; RR W	360	23 S4	80 oct. No sto.
(P) La Grange	3 SW; RR ESE	700	50h L2	
Lakewood (Atlanta)	4 S; hwy W	1012	16 S4	80 oct. Pwr line SE end NW-SE strip.
(A) Lawson (Columbus) (A)	9.5 S; riv W	224	59h R2 L5 S6	91,100 oct. No sto.
Lindsey (Swainsboro)	2.3 S; RR W	300	30	Pole line E.
★ McRae Int,47,MM-AG	2 SE; RR NE	247	26 L3	
Madison	2 SSW; RR E	720	27 S2	80 oct. Pwr line SSE.
(A) Marietta AAF (A)	2.5 SE	1010	60h R1 L5 S4	73-100 oct. JP-1 Lgts avail. up to 2000.
Montezuma	1.5 E; RR S,W	300	35 S1	Ltd 80 oct.
Morton (Palmetto)	1.8 NNE; RR SW	1020	24 S6	80 oct.
MUSCOGEE CO.(Columbus)	6 NE; Hwy E	386	40h L5 S6	80,91 oct. Fld lgts prior request.
Newnan Airpark	3.7 SE; RR W	970	20 L1 S1	80 oct.
Red Dog (Cochran)	6.2 NW; RR W	300	22 S4	80 oct. Trees N, E.
Reginald Grant Mem'l(Thomaston)	3.7 NNW;hwy NE	750	30 S4	80 oct. Trees S.
Ries (Macon)	4.5 SE; RR W	300	17 S1	Ltd 80 oct. - emerg. Trees N, E.
(A) Robins (Warner-Robins)(A)	1.5 NE Wellston	275	70h R1 L5 S6	62,73,91,100 oct. JP-1.
Roosevelt (Warm Springs)	3.5 N; hwy W	870	22 S2	80 oct. Trees SE, SW, NW.
★ Siloam Int;7B, AG-CS	1.3 S; road W	654	39 L3	82' mast SE corner N/S strip.
Souther (Americus)	4 NE; RR W	470	66	
★ Tallapoosa Int,73,FV-AG	5.5 3SE	1210	21 L3	Trees SE; house NW.
Three "B" (Fitzgerald)	1.5 N	515	27 S1	80 oct.
Turner #1 (Albany)	15 NE	285	45	
(A) Vidalia-Lyons	3.2 SE; hwy N	274	50h S1	80 oct. ARMY INACTIVE.
Washington	1.4 NW; RR SE	600	22 S1	80 oct.

[h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) / (NC)-Not charted.

ATLANTA


NASHVILLE 106
TALLAPOOSA-1210 21 L
ALA 1 D.A.
ANNISTON-610 24 S
CITY-COUNTY 12 S
BIRMINGHAM 224
RED 10
273
ANNISTON AAF-534 53H
ANNISTON 206 (116.1) On request
THOMAS C. RUSSELL-711 31 S
BIRMINGHAM 123
TUSKEGEE AAF 347
AUBURN-OPELIKA-760 40H L S
COLUMBUS-240 45 S
259
TUSKEGEE AAF-231 50H-219(126.18)
MOTON-269 40 S
LAWSON AAF-224 59H L S-278(126.18)
TUSKEGEE INSTITUTE NO. 1-574 19
TROY-393 50H
WEEDON-200 28 S
DOTHAN 233
MARIETTA AAF-1010 60H S-396(126.18)
COBB 20 S
ATLANTA-1005 48H L S-278(118.7, 126.18)
FAIRBURN
NEWNAN-970 20 S
ATLANTA 266 (116.1)
LA GRANGE-700 50H L
ROOSEVELT
MUSCOGEE CO-386 40H L S
GA 3 D.A.
LAWSON AAF 379
NAS. ATLANTA 323
NAS ATLANTA-1002 39 H L S-356(142.74)
LAKEWOOD-1012 16 S
219
JACKSON-716 30 L
GRIFFIN-936 30 L S
HERBERT SMART-463 47H L S
REGINALD GRANT MEM 30 S
RIES-300 17 S
BUTLER-650 32 L
COCHRAN AAF 50 H
MONTEZUMA-300 35 S
ROBINS AAF-295 70H L S-284(126.18)
AMERICUS-362 27
SOUTHER-470 66
TURNER NO. 1-285 45
ASBURY-350 22 S
ALBANY 254 (116.1)
KNOXVILLE 107
ATHENS-900 40 L S
WASHINGTON 22 S
MADISON-720 27 S
SILOAM-654 39 L
KINGS-360 23 S
MACON 209 (116.1)
DUBLIN-303 50 H S
LINDSEY-300 130
RED DOG 22 S
COCHRAN-324 30 L S
VIDALIA-LYONS-274 50 H S
MCRAE-247 26 L
CORDELE-305 52H L S
THREE "B"-515 27 S
FITZGERALD 24
TALLAHASSEE 130
SAVANNAH 131
TO CHATTANOOGA
TO SPARTANBURG
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY ● QUADRANTS
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
SCALE OF MILES


BIRMINGHAM 128
GLENDALE-200'
28 S
HATTIESBURG-145'
43H
McLAURIN-350'
124 S
ATMORE-287'
91 L
EVERGREEN
582
(116.1)
ANDALUSIA
18 S
MIDDLETON-258'
40H L
ATLANTA
JACKSONVILLE
NEW ORLEANS
TALLAHASSEE 130
MOBILE
248
(116.1)
CHASTAIN'S
17 S
NAAS. WHITING
524
CRESTVIEW-274'
33 L S
CRESTVIEW
350
(116.1)
BREWTON
40H
NAAS. WHITING (NO.)-200'
60H L S-269(142.74)
NAAS. WHITING (SO.)-178'
60H — 3295 (142.74)
BATES-214'
50H S
KEESLER
221
PICAYUNE MUN
30 S
ST ELMO-130'
50H
NAAS. SAUFLEY-85'
61H L S-275 (142.74)
DE FUNIAK SPRGS.
25 S
GULFPORT-26'
70H
DAVIS
23 S
BROOKLEY-26'
89H L S-281(126 18)
NAAS. BRONSON-27'
44H L S
NAAS. ELLYSON-115'
38H L S-3295 (142.74)
EGLIN
209
JACKSON CO
45H S
PENSACOLA-121'
50H L S
EGLIN-54'
80H L S-278(126 18)
PENSACOLA
326
(116.1)
NAAS. BARIN(WEST)-72'
34H S-3295(142.74)
NAAS. CORRY-33'
43H L S-341(142.74)
NAAS. BARIN(EAST)-51'
41H S-3295(142.74)
NAS. PENSACOLA-CHEVALIER-9'
26H S-382(142 74)(SEAPLANE)-2870(142.74)
KEESLER-21'
66H L S-201(126 18)
GULFPORT MUN.-30'
22 S
NEW ORLEANS
330
OLF S TO NAAS. BARIN
NO 10 + CANAL ------- 36 H
NO 11 + MAGNOLIA ----- 29 H
NO.12 + SILVERHILL ----- 30 H
NO 13 + SUMMERDALE ---- 29 H
NO 14 + WOLF -------- 30 H
OLF'S TO NAAS. WHITING
+ BREWTON ------ 40 H
NO.16 + CHOCTAW -----40 H
NO.17 + HOLLEY ------ 36 H
NO 18 + SANTA ROSA --- 45 H
OLF'S TO NAAS ELLYSON
NO 19 + BAGDAD ------ 18H
NO 20 + SPENCER ----- 18 H
AUX.'S TO EGLIN
+ NO 1 -----40
+ NO. 2 -----40H
+ NO. 3 -----40H
+ NO. 4 -----42H
+ NO 5 -----40H
+ NO 6 -----40H
+ NO 7 -----40H
+ NO 8 -----50H
+ NO 9 -----50H
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "R" QUADRANTS
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT.
IN LENGTH, HAVING UNPAVED
RUNWAYS AND NO LIGHTS, CARRY
NO CLASS IN AIRPORT BOX
SCALE OF MILES
10 0 10 20 30

RADIO

ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARIN FIELD NAAS(Foley) East Field	3295(142.74)	CN	3105;142.74
BARIN FIELD NAAS(Foley) West Field	3295(142.74)	CN	3105;142.74
BROOKLEY FIELD(Mobile)	281 (126.18)	CA	(4); 126.18
CAROE FM	(- - - - -)	FM, 310°, 24.9	Whiting NAAS
EVERGREEN (Middleton)	352(EM)(116.1	MEVT	(4);116.1
MOBILE (Brookley)	248(MS)(116.1)	SBRAZ-VDT;138°, 3	(4):116.1

FLORIDA

CORRY FLD NAAS(Pensacola)	341(142.74)	CN	3105;142.74
CRESTVIEW	350 (HW) (116.1)	SBRAZ-VDT;264°,2.6	(4);116.1
ECLIN (Valparaiso)(Army)	209 (DVQ)	MRLPZ	(Voice 6-24)(3);126.18
Eglin Field	278(126.18)	CA;180°,4	(3);4220,126.18 (6-24)
ELLYSON FLD NAAS (Pensacola)	3295(142.74)	CN	3105;142.74 (8-16)
HOLT FM	(-)	FM, 51°, 31.2	Pensacola
LIVE OAK FM	(- -)	FM, 160°, 6	Pensacola
MOLINO FM	(- - - -)	FM, 340°, 21.4	Pensacola
PENSACOLA	326(KH)(116.1)	SBRAZ-VDT;340°,2.1	(4); 116.1
Pensacola-Chevalier NAS	382 (142.74)	CN	(4):142.74(sunrise-30 mins after sunset.
Pensacola-Chevalier NAS (Seaplane)	2870(142.74)	CN	3105,4495;142.74(730-1630.except Sat,Sun. & holidays).
SAUFLEY FLD NAAS (Pensacola)	275 (142.74)	CN	3105,4495;142.74
WHITING (Milton)(Navy)	524 (AWT)	MRLZ	
Whiting Fld NAAS(North)	269 (142.74)	CN;130°,3.2	3105,4495;142.74
Whiting Fld NAAS(South)	3295(142.74)	CN	3105;142.74(7-22)

MISSISSIPPI

KEESLER(Biloxi)(Army)	221 (DOX)	BMRLZ	(4); 4220
Keesler Field	201 (126.18)	CA; 210°, 2.9	(4); 4220

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs. (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Andalusia	1.7 SSE;RR N	340	18 S1	80 oct.
★ Atmore Int,16,NO-AG	6 NW;at rd int	287	31 L3	
(N) Barin NAAS-East(Foley)	2.7 ESE	51	41h R1 L1 S4	91 oct.
(N) " -West(Foley)	2.7 ESE	72	34h R1 L1 S4	91 oct.
BATES (MOBILE)	10 W;rd N,S	214	50h S6	80,91 oct.
Brewton (old)(NC)	2.5 N;hwy E	100	23	UNUSABLE.
(P) " (new)	3.5 S;riv N	92	40h	
(A) Brookley (Mobile)(A)	3 SSW;RR NW	26	89h R2 L5 S4	62,73,91,100oct.JP-1
(N) Canal OLF (Foley)(N)	8 S;rd W	16	36h	
Chastaints(Prichard)	2.5 N;RR E	50	17 S1	80 oct.
Davis (Mobile)	12.1 WSW;RR E	180	23 S1	73 oct.
(N) Fëircloth (Lillian)(N)	3 NW; bay E	70	37	
(N) Kaisers Tract OLF (Elberta) (N)(NC)	3.3 ENE;hwy S	90	25	
(N) Magnolia OLF (Foley)(N)	5.4 NW	83	29h	
(P) Middleton (Evergreen)	6 WSW; hwy N	258	40h R1 L5	Fld lgts prior req.
St. Elmo	1 WSW; RR S	130	50h	
(N) Silvarhill OLF (N)	3.5 WNW	129	30h	
(N) Summerdale OLF (N)	3.5 ENE;RR W	129	29h	
(N) Wolf OLF (Josephine)(N)	1.5 N; bay E	54	30h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page X111) (NC)-Not charted.

FLORIDA

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N) Bagdad OLF (Pensacola)	14 NE;RR SE	111	18h	Use rnwys.(N)
(N) Bronson NAAS(Pensacola)	12 WSW;bay W	27	44h L S4	91 oct. B-2 flood, obst lgts.(N)
(N) Choctaw OLF (Pensacola)	15 ENE	111	40h	(N)
Crestview,21,NO-JX	2.5 N;RR E	274	33 R1 L2 S6	80 oct. No sto.
De Funiak Springs	1 W;RR N	197	25 S1	80 oct. Pwr line N.
(A) Eglin (Valpariso)(A)	1.8 SW;hwy SE	54	80h R2 L5 S4	73-100 oct. JP-1. No sto.
(A) " #1 " (A)	13.7 NNE	238	40h	
(A) " #2 " (A)	6.1 NNE	157	40h	
(A) " #3 " (A)	10 N	192	40h	
(A) " #4 " (A)	6.2 W	92	42h	
(A) " #5 " (A)	10 NW	178	40h	
(A) " #6 " (A)	18.2 WNW;riv NW	136	40h	
(A) " #7 " (A)	19.5 W	133	40h	
(A) " #8 " (A)	10.3 ENE	113	50h	
(A) " #9 " (A)	13.7 WSW	35	50h	
(N) Ellyson NAAS(Pensacola)	7.5 NNE;bay E	115	38h R1 L S6	73,91 oct.E and W flds.CLSD.(N).
Gulf Airpark (Pensacola	3 NW		17	Data not verified. (NC)
(N) Helm OLF (Pensacola)(N)	12 NW	100	54	(NC)
(N) Holley OLF (N)	1.5 S;riv N	37	36h	
Milton (NC)	3.5 ENE;RR S	150	53	
(P) PENSACOLA	4 NNE;bay E	121	50h R1 L5 S6	80,91 oct.
(N) " NAS (Chevalier)(N)	5.3 SW;RR W	9	26h R1 L S6	91 oct.Flood,obst lgts.
(N) " NAS (Corry)(N)	5 WSW;hwy SE	33	43h R1 L4 S6	91 oct.Obsts N,E,W.
(N) " OLF #1 (N)(NC)	14 NW;riv 3 W	100	46	
(N) " OLF #5 (N)(NC)	10 NNW;RR W	115	57	
(N) " OLF #6 (N)(NC)	10 NNW;RR E	110	48	
(N) " OLF #7 (N)(NC)	7 NW	103	37	
(N) " OLF #8A (N)(NC)	13 NW	100	73	
(N) " OLF #9K (N)(NC)	11.5 NNW;RR E	110	50	
(N) Santa Rosa OLF (Milton)	6 E;rivs N,S,W	150	45h	(N)
(N) Saufley NAAS (Pensacola)	8.5 WNW;bay SW	85	61h R1 L5 S4	87,91 oct. (N)
(N) Spencer OLF (Pensacola)	15 NNE;bay S	145	18h	(N)
(N) Whiting NAAS-North (Milton)(N)	6 N	200	60h R2 L6 S4	73,91,100 oct.
(N) " " -South (Milton)(N)	5 N	178	60h R1	Use N fld. INACTIVE.
(N)Ⓣ Bronson NAAS (Pensacola)	12 WSW	S.L.	Unl L4 S4	87,91 oct. Ramps;all facs.(N)(NC)
(N)Ⓣ Pensacola NAS(N)(NC)	5.3 SW	S.L.	116 R1 L1 S6	87-100 oct.Ramps;all facs.

MISSISSIPPI

Ellisville	1.3 SW;RR SE	240	18	
Glendale(Hattiesburg)	5 NNW;hwy E	200	26 S3	80 oct.
Gulfort	3.4 NE	26	70h	
" mun.	1.3 N;RR E	30	22 L1 S1	80-oct.Twrs SE,NNE,lgtd.
Hattiesburg	5 SSE;RR SW,NE	145	43h	Poles W,NW
Jackson Co.(Pascagoula)	3.5 ENE;RR N	16	45h L5 S6	80,91 oct.
(A) Keesler (Biloxi)(A)	2 WNW;bay N	21	66h R2 L5 S5	73,91,100 oct.Rio rad ngts.
McLaurin	1 NNE;RR W	350	24 S4	73 oct.Lgt acft only.
Picayne	2.3 NNE	92	30 S4	73 oct.No sto.Trees N,SW.
(N)Ⓣ Biloxi CGAS (N)(NC)	2 ESE	S.L.	54 S4	91 oct. Ramp.

RADIO

ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DOTHAN	233(NI)(116.1)	SBRAZ-VDT,47°,3.7	(4);116.1
FLORIDA			
CROSS CITY	269 (FC)(116.1)	SBMRAZ-VDT,315°,2.7	(4), 116.1
DALE MABRY FLD (Tallahassee)	281 (126.18)(118.3)	C, 85°, 2.7	(4), 126.18, 118.3
TALLAHASSEE (Dale Mabry Fld)	335 (TJ)(116.1)	SBRAZ-VDT,85°,2.7	(4), 116.1
TYNDALL (Panama City)(Army)	203 (DKE)	BMRLZ	Voice 8-23. (3); 126.18
Tyndall Field	272 (126.18)	CA, 313°, 3	(3), 126.18 (6-24)
GEORGIA			
ALMA (Int.)	242 (AJ)(116.1)	SBRAZ-VDT,144°, 2.2	(4), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

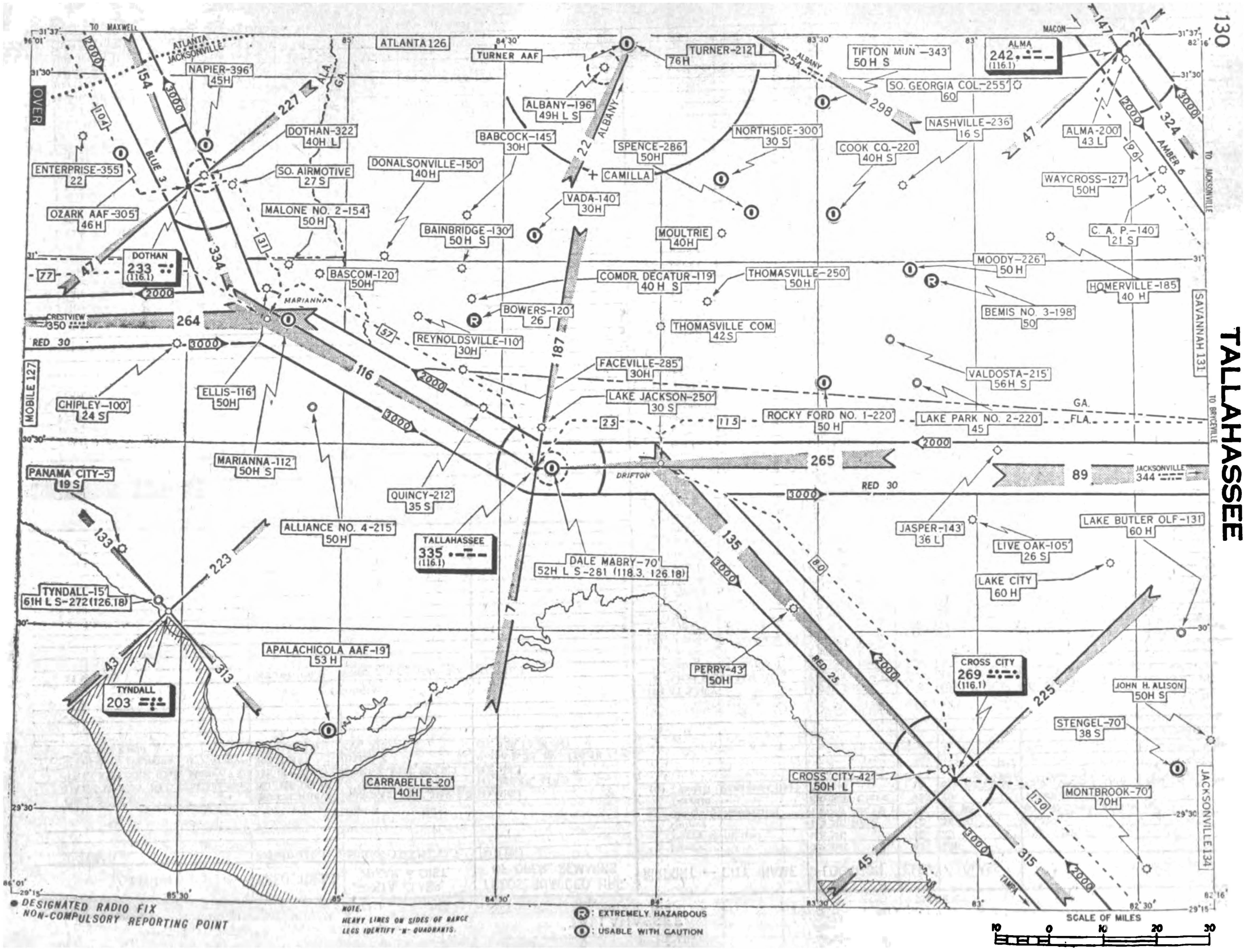
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DOTHAN	2.5 WNW	322	40h R1 L5	
Enterprise	0.5 NE	355	22	
Headland	2 NE,hwy N	350	48	
Napier (Dothan)	7.5 NW,RR S	396	45h	
(A) Ozark AAF (A)	12 SSW	305	46h	INACTIVE
Southern Airmotive	2 SE,RR W	322	27 S4	80 oct. Twr NW. (Dothan)
FLORIDA				
(A) Alliance #4 (Mariana)(A)	14 SE	215	50h	INACTIVE
(A) Apalachicola AAF (A)	2 W,RR N	19	53h	INACTIVE
Bascom (Mariana)	15.5 NE	120	50h	
Carrabelle Flgt Strip	2.6 W,hwy S	20	40h	
Chipley	1.5 SE,hwy N	100	24 S1	80 oct.Trees around fld.
Cross City	1 SE,RR SW	42	50h R1 L5	No beacon
DALE MABRY (Tallahassee)	3 W, RR S	70	52h R2 L5 S4	80, 91 oct.
Ellis (Mariana)	9.5 N,riv W	116	50h	
Fountain	5.2 NNE,hwy E	202	25	
Jasper Int,43,NO-JX	3.5 SSE,RR NE	143	36 L3	Poles W.Power line NE.
John H. Allison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct. Lgts prior req.
(N) Lake Butler OLF (N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lake Jackson(Tallahassee)	9 NNW,riv NW	250	30 S4	80 oct. No sto.
Live Oak	1 W,RR W	105	26 S1	80 oct. Pole line N,NE,SW. Hwy N.
Malone #2 (Mariana)	15.5 N	154	50h	
Mariana	6 NE,hwy E	112	50h L5 S4	80 oct.Fld lgts prior req.
Montbrook (Williston)	3.2 SSW,hwy E	70	70h	
Monticello (NC)	1.5 SW,hwy E	160	25	
Panama City	5 NW,bay N,S,W	5	19 S6	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted.

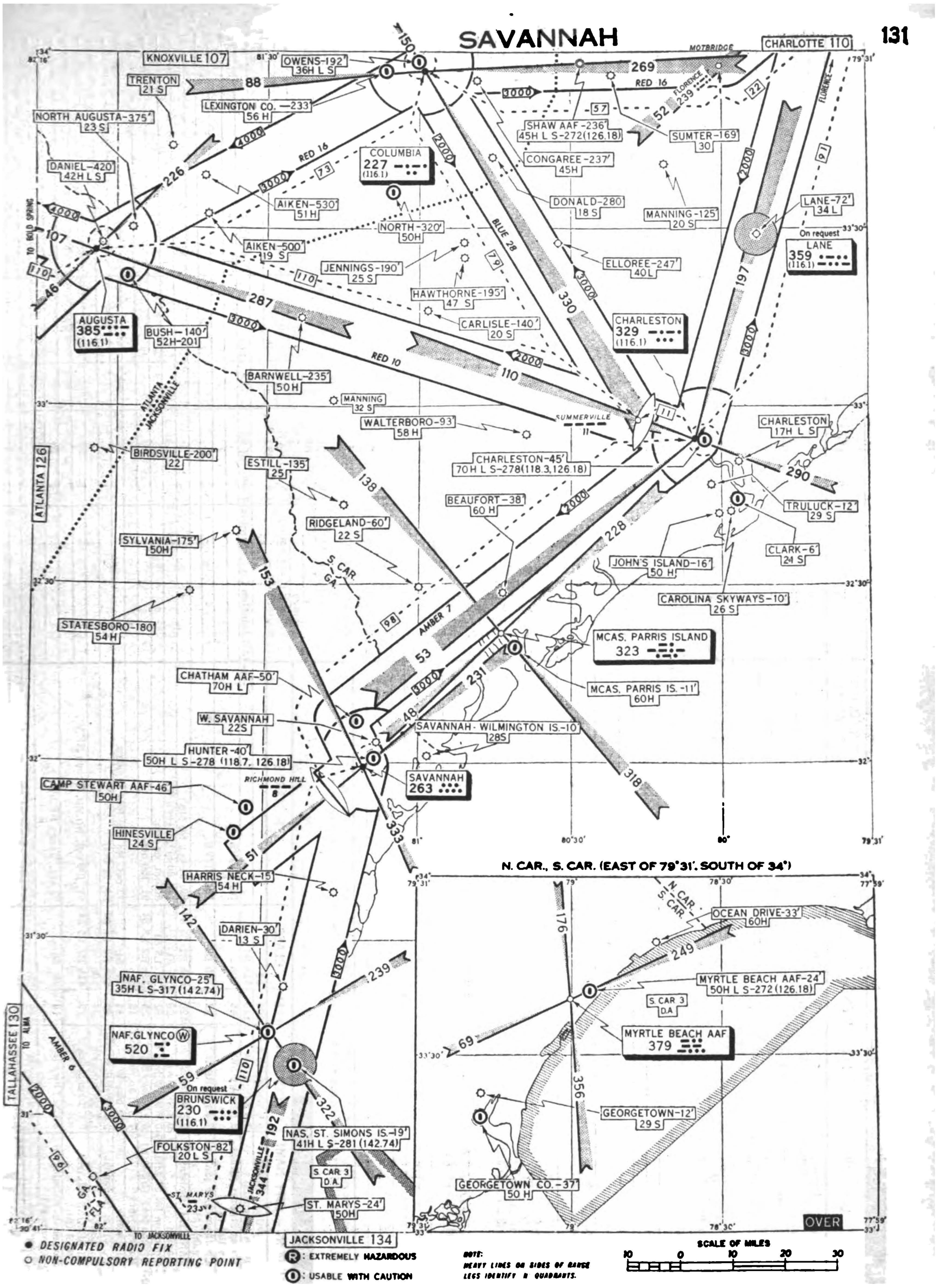
FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Perry	3 S,RR E	43	50h	
Perry Municipal	0.5 NE	43	20	Trees NE,SW.
Quincy	1.5 NE,RR S	212	35 S1	80 oct.
Stengel(Gainesville)	4 WSW,RR SE	70	38 S6	80 oct. Trees around fld.
Tennile	2.5 SSW Clara	35	20	Trees SW Road E.
(A) Tyndall (Panama City)	8 SE	15	61h R2 L5 S6	73,91,100 oct. Gulf of Mexico SW. (A)
GEORGIA				
(P) ALBANY	4 SW, RR N	196	49h R1 L5 S6	80, 91 oct.
★ Alma Int,43,MM-AG	2.5 W,hwy N	200	43 R1 L3	
Babcock(Bainbridge)	3.5 ENE Boykin	145	30h	
Bainbridge	7 NNW,RR NE	130	50h S6	80, 91 oct.
(A) Bemiss #3 (Valdosta)(A)	12 NE,hwy SE	198	50	Not used as airport. CLOSED.
Bowers (Bainbridge)	4.5 S,rd W	120	26	Trees sur fld. Closed. High weeds.
Camilla	0.7 NW		22 S1	80 oct. Data not verified.
Civil Air Patrol (Waycross)	2.6 WSW,RR SE	140	21 S1	80 oct. Obsts surround fld.
Commodore Decatur	2 W,riv S	119	40h S1	80 oct. (Bainbridge)
Cook County (Adel)	1.3 W,hwy NE	220	40h L3 S6	80, 91 oct.
Donalsonville(Bainbridge)	1 S Donalsonv'l	150	40h	
Faceville(Bainbridge)	3.5 S Faceville	285	30h	
Homerville Flgt Strip	2.5 NW,hwy NE	185	40h	
(A) Lake Park #2(Valdosta)	12.5 SSE,hwy N	220	45	INACTIVE (A)
(A) Moody (Valdosta)(A)	11.5 NNE,RR W	226	50h	INACTIVE
Moultrie	7 S,hwy NW	287	40h	
Nashville	1.3 ENE,RR S	236	16 S6	80 oct.
Northside (Moultrie)	3.2 NNW,RR W	300	30 S4	80 oct. No sto.
Reynoldsville (Bainbridge)	1.7 SSW Reynoldsville	110	30h	
(A) Rocky Ford #1 (A)	16 SW,hwy N	220	50h	INACTIVE (Valdosta)
South Georgia College	1.3 S,RR W	225	60	(Douglas)
Spence (Moultrie)	5 SE,hwy W	286	50h	
Thomasville	8.5 ENE,hwy S	250	50h	
Thomasville, com.	1 SW,RR N	250	42 S4	80 oct.Trees sur fld.
Tifton Mun.	2.3 SE,hwy W	343	50h L5 S4	80,91 oct. Lgts prior req.
(A) Turner (Albany)	3.8 ENE,riv N	212	76h	INACTIVE.
Vada (Bainbridge)	3 NE of Vada	140	30h	
(A) Valdosta	2.5 S,hwy E	215	56h S1	80 oct. for civil aircraft.
(P) Waycross	4 NW,hwy E	127	50h	

TALLAHASSEE



SAVANNAH



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓓ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS.

SCALE OF MILES
10 0 10 20 30

RADIO — GEORGIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA (Daniel)	385 (VD)(116.1)	SBRAZ-VDT,46°,2.1	(4), 116.1
BUSH FIELD (Augusta)	201	CA	(4) (8-sunset)
BRUNSWICK	230 (BS)(116.1)	MHVT	(4), 116.1
GLYNCO (Navy)	520 (NEA)	MRLWZ	
Glynco NAF-LTA	317 (142.74)	CN,239°, 0.3	3105,4495; 142.74 (8-17)
HUNTER FIELD (Savannah)	278 (126.18) (118.7)	AC	(4): 131.9,126.18, 118.7
RICHMOND HILL FM	(- - -)	FM, 231°, 8	Savannah
ST. MARYS FM	(-)	FM, 12°, 23	Jacksonville, Fla.
ST. SIMONS ISLAND NAS	281 (142.74) (140.58)	CN	(3):142.74,140.58 (630-24)
SAVANNAH (Hunter)	263 (SH)(116.1)	SBMRLZ-VDT,51°,2.2	(4): 116.1
SOUTH CAROLINA			
CHARLESTON	329 (CS)(116.1)	SBRAZ-VDT	(4), 116.1
Charleston Airport	278 (126.18) (118.3)	AC, 110°, 1.9	(4), 131.9,126.18,118.3
COLUMBIA (Owens Field)	227 (CI)(116.1)	SBRAZ-VDT,330°,1.8	(4), 116.1
LANE (Intermediate)	359 (LX)(116.1)	MHVT	(4), 116.1
MYRTLE BEACH (Army)	379 (DMB)	BMRAZ	
Myrtle Beach AAF	272 (126.18)	CA, 69°, 4.4	(3), 126.18
PARRIS ISLAND MCAS (Navy)	323 (NQR)	MRLZ, 138°, 3.8	(3),3295 (voice and twr on req only with 1 hr advance notice.
SHAW FIELD (Sumter)	272 (126.18)	CA	(3), 126.18 (7-24)
SUMMERVILLE FM	(- - - -)	FM, 296°, 10.7	Charleston

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — GEORGIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Birdsville (Millen)	9.4 WNW;riv S	200	22	
Bush (Augusta)	7.5 SSE;RR W	140	52h R1	
(A) Camp Stewart (Hinesville) (A)	3 NE;hwy SW	46	50h	INACTIVE
(A) Chatham AAF (Savannah) (A)	7.5 NW;RR E	52	70h L5	INACTIVE
DANIEL (Augusta)	2.5 W;RR S	420	42h R1 L5 S4	80, 91 oct. No sto.
Darien	0.8 SE;riv S	30	13 S1	Ltd 80 oct. Trees W.
★ Folkston Int,37,MM-AG	0.7 WNW;hwy E	82	20 L3 S1	80 oct. on req.
(N) Glynco NAF (LTA)(N)	6.4 N;hwy SE	25	35h R2 L5 S4	91, 100 oct.
Harris Neck	7 E of So. Newport	15	54h	
Hinesville	3 S; hwy W	55	24 S4	73 oct. No sto. Rdo repairs.
HUNTER (Savannah)	3.5 SW;RR yd NW	42	50h R2 L5 S6	80, 91 oct.
St. Marys	1.7 NNW;hwy S	24	50h	
(N) St. SIMONS ISLAND NAS (N)	6 E Brunswick	19	41h R2 L5 S4	91, 100 oct. No sto. Trees NE,W.
Savannah-Wilmington. (Savannah)	8 ESE; hwy N	10	28 S6	73 oct. Trees NE,SW.
Statesboro	3.8 NE;hwy W	180	54h	
Sylvania	7.5 SSE;hwy E	175	50h	
West Savannah(Savannah)	3 W; RR W,N	42	22 S6	80 oct. Pole line NW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

GEORGIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
SOUTH CAROLINA				
Aiken (old)	2 E; RR NNE	500	19 S4	80 oct. Trees SSW.
Aiken (new)	6 NNE; RR SW	530	51h	
Barnwell	1 WNW;hwy E	235	50h	
(P) Beaufort	4 NW	38	60h	
Carlisle (Bamberg)	4 ESE;riv NE	140	20 S4	80 oct. No sto.
Carolina Skyways (Charleston)	6 SSW;riv W	10	26 S4	80 oct.
CHARLESTON (mun.)	9.8 NW;RR NE	45	70h R2 L6 S4	100 oct.
(N) Charleston	4 N; riv E	13	17h L5 S4	91, 100 oct. No sto. NAVY INAC.
Clark (Charleston)	4 S;riv SW	6	21 S1	80 oct. Trees surround fld.
Congaree (Columbia)	15.5 ESE;RR S	237	45h	
Donald (St.Matthews)	2.5 NNE; RR S	280	18 S1	Ltd 80 oct. Trees SE.
★ Elloree Int,25,AG-CS	5.5 SE;RR N	247	40 L3	Steel mast NE.
Estill	2.5 SSW;RR E	135	25	
Georgetown	1 NW;riv E	12	29 S6	80,91 oct.
(P) Georgetown County	4 S;bay E	37	50h	
Hawthorne(Orangeburg)	5 S; RR E	195	47 S6	80, 91 oct. Tank N.
Jennings (Orangeburg)	2.3 S; RR E	190	25 S2	80, 91 oct. Pole line ENE.
John's Island (Charleston)	7 SSW; rd W	16	50h	
★ Lane Int,24,JX-RW	3 S;RR W	72	34 R1 L3	
Manning (Allendale)	1.5 ENE;hwy N	180	32 S1	80 oct.
Manning	1.5 SE;RR NNE	125	20 S1	Ltd 80 oct.
(A) Myrtle Beach AAF(A)	3 WSW;hwy SE	24	50h R2 L5 S6	73,91,100 oct. No sto.
(A) North (A)	1.5 SE; hwy N	320	50h	INACTIVE
North Augusta	2 E;hwy S	375	23 S4	80 oct.
Ocean Drive (Wampee)	3.5 SE;hwy SE	33	60h	
OWENS (Columbia)	2.5 SE;RR SW	192	36h R1 L4 S6	80 oct. Tank WSW, twr SSE.
(N) Parris Island MCAS	1.5 S	11	60h R1	INACTIVE (N)
Ridgeland	1.3 WNW;hwy E	60	22 S1	73, 80 oct.
(A) Shaw (Sumter)(A)	7 WNW;RR W	236	45h R1 L5 S6	73, 91, 100 oct. JP-1
Sumter	1.5 NW; RR S	169	30	
Trenton	1.2 E;RR ESE	480	21 S1	80 oct.
Truluck (Charleston)	5.5 W;RRs N	12	29 S6	80 oct. Poles surround fld.
(P) Walterboro	1.3 NE;hwy SE	93	58h	
(A)Lexington Co.(Columbia)	7 SW; RR SE	233	56h	INACTIVE.

RADIO — FLORIDA

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BANANA RIVER (Navy)	524 (NPE)	MRLZ	(3)
Banana River NAS	224 (142.74)	CN,106°,4.8	(3), 142.74
BAYARD FM	(- - -)	FM, 158°, 19	Jacksonville
BRYCEVILLE FM	(- - - -)	FM, 269°,20.2	Jacksonville
CECIL NAAS (Jacksonville)	201 (142.74)	CN	3105;142.74 (flying hrs)
DAYTONA BEACH	236(DB)(116.1)	BMLZ-VDT,101°, 2.1	(4), 116.1
DREW FIELD (Tampa)	317 (126.18) (118.5)	AC	(4),126.18,118.5,131.9
FORT GEORGE ISLAND FM	(- -)	FM,89°,10.25	Jacksonville
JACKSONVILLE	344(JX)(116.1)	SBRAZ-VDT	(4); 116.1
Jacksonville Arpt No. 1	278 (126.18) (118.5)	AC, 269°, 1.7	(4); 131.9,126.18,118.5
Jacksonville NAS	323 (126.18) (142.74)	CN	(3), 126.18, 142.74
Jacksonville NAS (Seaplane)	3295	CN	3105
MacDILL (Tampa) (Army)	1742 (TM)	H	
MacDill Field	227 (126.18)	CA	(3), 126.18
MELBOURNE	257(OU)(116.1)	SBRAZ-VDT,158° 2.2	(4); 116.1
NORTH TAMPA FM	(- - - -)	FM, 355°, 10.1	Tampa
ORLANDO	206(OR)(116.1)	BMRLZ-VDT	(4), 116.1
Orlando Arpt.	278 (126.18) (118.7)	C, 220°, 3.4	(4),118.7,131.9, 128.18
PETER O. KNIGHT AIRPORT (Tampa)	278	CI	(4) (12-19)
PINECASTLE(AAF)	248 (126.18)	CA (ILS)	(3),126.18,139.32(8-24)
PINELLAS (St. Petersburg)	272	CI	(4) (8-24)
RUSSELL (Navy) (Fleming OLF)	365 (RUS)	BML, 300, 3	(3), 128.7
TAMPA (Peter O. Knight Arpt.)	388 (TM)(116.1)	SBRAZ-VDT,55°, 2.6	(4), 116.1
VERO BEACH	242 (VB)(116.1)	MHVT	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
PINECASTLE AAF, FLA.	109.1	335	360°Mag	IM (.17)	MM ····· (.66)	OM — — (4.5)
					MKR	OMK

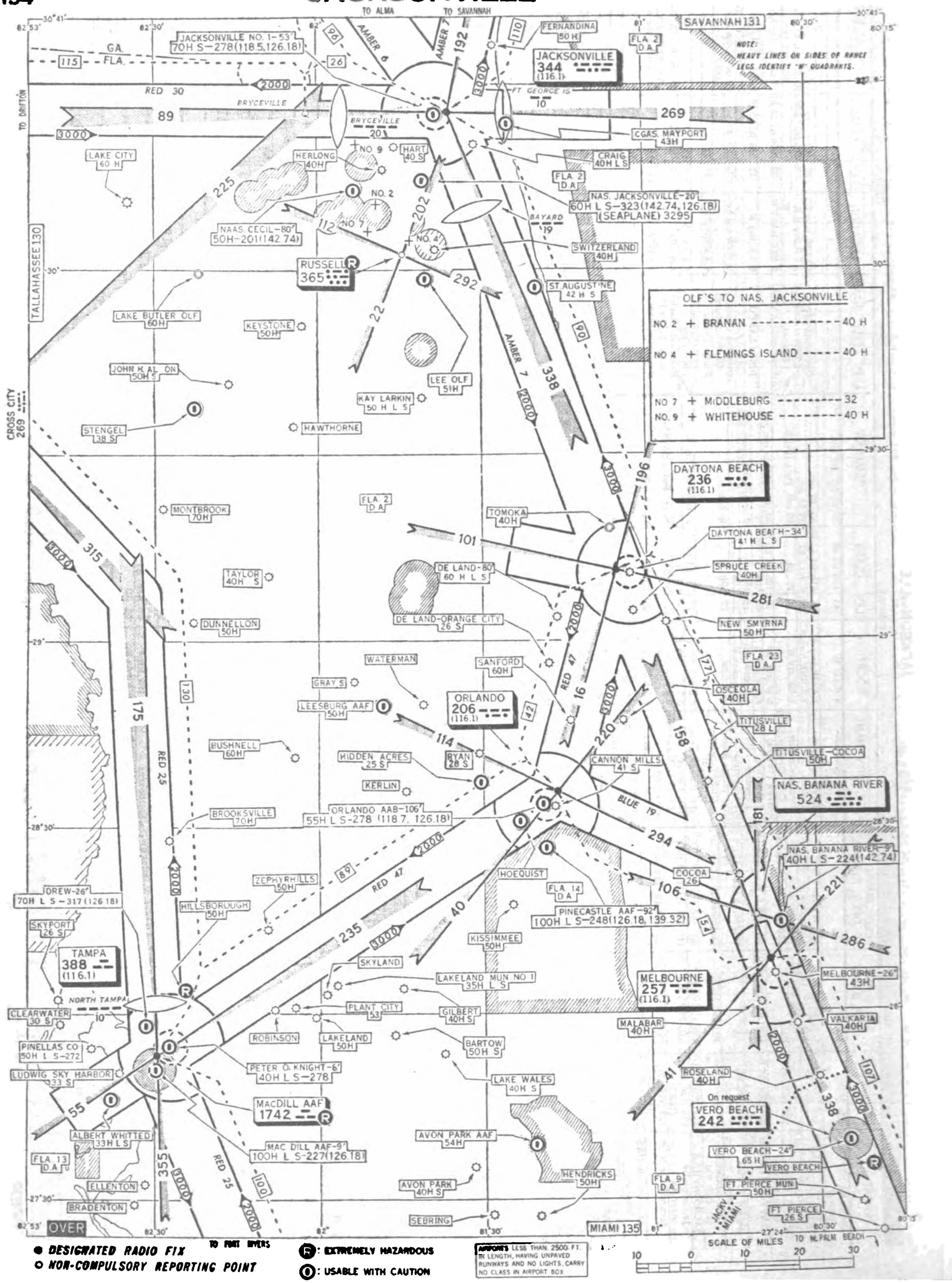
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210.3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P)Albert Whitted (St. Petersburg)	2.5 E,bay E	6	33h L3 S6	80,91,100 oct.Coast Gd. Sta.adj. Poles,stack NW,SW.
‡Albert Whitted (St. Petersburg) (NC)	0.8 SE,adj Arpt.	S.L.	Unl. S1	80 oct.Data not verified
Altoona (NC)	0.6 NW,RR E	155	25	Trees ends strips.
Avon Park	1.5 W,RR E	127	40h S1	80 oct.Trees SE.
(A)Avon Park AAF(A)	11 ENE,lake NW	65	54h	INACTIVE.
(N)Banana River NAS	11 SE Cocoa	9	40h R2 L5 S6	91 oct.No bcn. (N)
Barberville (NC)	1 SE,bet RR& rd	25	25	Pole line E.UNUSABLE.
Bartow	5.5 NE,RR NW	128	50h L5 S2	80,91 oct.
Bostwick (NC)	1 NW,RR E	53	34	
Bradenton	0.5 S,RR NE	20	24 S1	80 oct.Trees W.Poles SW.
(N)Branan OLF(Jax)(N)	14.5 SW	73	40h L	B-2 lgts.
Brooksville	7.5 SW,hwy E	70	70h	
Bushnell	2.8 NE,hwy S	82	60h	N-S rnwy unusable.
Cannon Mills (Orlando)	3.8 E,hwy N	105	41 S6	80 oct.No sto.Poles sur fld.
(N)Cecil NAAS (Jacksonville)	16 WSW,hwy NW	80	50h R1	INACTIVE.Trees sur.fld
Cedar Keys (NC)	1 W,bay S	6	24h	
Clearwater	2.5 NE,hwy S	73	30 S6	80 oct.No sto.Trees W.
Cocoa	1 N,RR E	20	26 L1	Pole line E,trees S,W.
Craig (Jacksonville)	9 E,riv N	41	40h L5 S6	80,91 oct. No sto.
Daytona Beach	2.8 SW,hwy S	34	41h R1 L5 S6	80, 91 oct.
Deland	2.5 NNE,hwy S	80	60h L5 S1	87,91 oct.
Deland-Orange City (Orange City)	1 SW,riv W	90	26 S1	80 oct. Pole line E.
(N)Drew (Tampa)	5 W,bay SW	26	70h R1 L5 S6	80, 91 oct.Rdo rec req.
Dunnellon	4.5 E,hwy S	63	50h	
Ellenton	1.5 NNW,RR N	18	15	Pole line NE,trees SW,
(P)Fernandina	4 S,ocean E	16	50h	
(N)Flemings Island OLF (Jacksonville) (N)	17.5 SSW	23	40h L	B-2 lgts.
Ft. Pierce, com.	3.3 SSE,RR E	18	26 L1 S6	80 oct.Pole line W.
(P)Ft. Pierce, mun.	3.5 NW,hwy E	24	50h	
Frank D Waterman (Eustis)	0.9 SSW,lake NNW	81	23 S1	80 oct.Poles SW,N,W.
Gilbert (Winter Haven)	3.5 NNW,lake W,E	135	40h S6	80, 91 oct.
Gray's (Leesburg)	5 N,RR,hwy W	130	27 S6	80 oct.Orange groves W.
Haines City (NC)	1 NW	175	20 L1	
‡Hal Hoover's (Leesburg) (NC)	1 N	15	Unl S1	80 oct.Ramp,beach,dock. Data not verified.
Hart (Jacksonville)	6.5 W,RR N	20	40 S6	80,91 oct.Trees sur fld
Hawthorne	1.2 SSE,RR W	120	24 S1	Ltd 80 oct.Trees S,W,NE
Hendricks (Sebring)	6.5 ESE,RR N	62	50h	
Herlong (Jacksonville)	10.5 WSW	87	40h	
Hidden Acres (Clarcona)	1.5 WNW,lake W	93	25 S6	80 oct.Trees E.
①Hidden Acres (Clarcona) (NC)	1.5 WNW, adj arpt.	90	30 S6	80 oct.10 mi.NW Orlando Data not verified.
Hillsborough (Tampa)	7 NNE	50	50h	
Hoequist(Orlando)	3.8 SW,bet lakes	90	20 S4	80 oct.No sto.Trees E.
(N)Jacksonville NAS(N)	7.2 S,riv E,N	20	60h R1 L5 S6	91, 100 oct. NATS.
(A)Jacksonville No. 1	6.3 N,RR W	53	70h R2 L5 S4	73, 91, 100 oct. JP-1, for Army.
①James Johnstone (St.Petersburg)(NC)	7 W	S.L.	Unl. S6	80 oct.Ramp, all facs. Data not verified.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct.Lgts prior req.
(P)Kay Larkin(Palatka)	3 WNW,RR N	56	50h L5 S1	91 oct.
Kerlin (Minneola)	0.5 NE	100	18 S2	80 oct.
Keystone (Keystone Heights)	4.5 NNW,RR W	192	50h	
Kissimmee	2 W,RR N	65	50h	
(N)Lake Butler OLF(N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lakeland	4.5 SW,RR NE	135	50h	
LAKELAND MUN. NO. 1	2.1 N,lake E	159	35h L5 S6	80, 91 oct.Ctc lgts on req till 2400
Lake Wales	2.3 WSW,RR N	225	40h L3 S6	80, 91 oct.All lgts prior req.
(N)Lee OLF (Green Cove Springs)(N)	2.2 SE,riv N	22	51h	INACTIVE.
(A)Leesburg AAF (A)	4 ENE,RR SE	67	50h L3	CLOSED.
Ludwig Sky Harbor (St.Petersburg)	6 NE,bay E	14	33 L1 S6	80 oct.
(A)MacDill (Tampa)(A)	8 SSW,bay NE	9	100h R2 L5 S6	73-100 oct. JP-1.No sto.
Malabar	7 WNW	27	40h	
(N)Mayport CGAS (N)	0.6 NNE,riv N	19	43h	INACTIVE.
Melbourne	2.2 NW,RR E	26	43h R1	
(N)Middleburg OLF (N)	3 NNE,rds E, SE	34	32	
Montbrook(Williston)	3.2 SSW,hwy E	70	70h	
‡Municipal (Lakeland) (NC)	Adj NE on E side arpt.	145	Unl. S1	80 oct. Data not verified
New Smyrna	3 NNW,RR W	12	50h	
(A)Orlando AAB(Arpt)	2.5 E,lake SE	106	55h R2 L5 S6	91; 100 oct.for military. No sto.
‡Orlando Aviation Country Club (Orlando)	5 N	90	60 S1	80 oct.Ramp, beach. Data not verified.(NC)
Osceola(Sanford)	10 SSE,lake SE	25	40h	
(A)PETER O.KNIGHT (Tampa)	3.7 S,bay S,E, W	8	40h R2 L5 S6	91,80 oct. Shipyard NE Rdo rec req.
(A)Pinecastle AAF(A)	3 ESE,lake NW	92	100h R3 L5 S4	91,100 oct.JP-1.No sto. No range.
PINELLAS CO. MASTER	9.5 N,bay N	12	50h R1 L5 S6	80,91 oct.No sto. OF (St.Petersburg) ENTRY,
‡Pinellas County (St.Petersburg)	11 NNW,adj arpt	S.L.	Unl S1	80 oct. Data not verif. (NC)
Piper-Fuller (St. Petersburg)(NC)	4.8 WNW,RR E	21	32	
Plant City	3 E,hwy N	125	53	
‡Riverside (Jacksonville)(NC)	Adj city	7	Unl. S1	80 oct. Beach. Data not verified.
Robinson(Plant City)	1.5 WSW,RR E	110	18 S1	80,91 oct.Pole line ESE
Roseland(Sebastian)	1.7 W,riv N,E	23	40h	
Ryan (Apopka)	1 N,lake NW	104	28 S6	80 oct.
St.Augustine	4 NNW,hwy W	10	42h S1	80, 91 oct.
Sanford	2.5 SE,lake N,S	57	60h	
Sawyer (Palatka)	2.6 S,RR SE	60	25	Trees N,E,S. (NC)
Sebring	4 SW,lake NE	200	20 S1	80 oct.Pwr line SW.
Skyland(Lakeland)	1.9 WNW,RR S	170	23 S6	80 oct.No sto.Trees S.
Skyport (Dunedin)	1.5 N,RR E	4	26 S6	80 oct.No sto.Pole line NE
Spruce Creek(Deland)	16 ENE	25	40h	3.5 mi N Sansula.
Stengel(Gainesv'l)	4 WSW,RR SE	70	38 S6	80 oct.Trees sur fld.
Switzerland	1.5 SE	31	40h	
(P)Taylor (Ocala)	1 SW,RR NE	72	40h L3 S6	80,91 oct.Lgts and ngt repairs prior req.
‡Titusville (NC)	Adj NE	S.L.	Unl. S1	73 oct.80 oct. on req.
(P)Titusville-Cocoa (Titusville)	6 S,riv E	35	50h	Data not verified.
★ Titusville Int,20, MM-AG	1.3 NW,RR E	28	28 L3	
Tomoka (Daytona Beach)	7.8 NW	29	40h	
Valkaria (Melbourne)	8 SSE,RR E	26	40h	
VERO BEACH	1 NW,RR E	24	65h R1	
Wauchula	2.1 E,riv W	120	21	Trees N, E, NE.
(N)Whitehourse OLF (Jacksonville)(N)	13 W,RR S	102	40h L	B-2 lgts.
Wimauma	0.8 ESE,RR W	35	36	Cattle on fld.Bldg W.
Zephyrhills	1.5 ESE,RR W	92	50h	
(N)Banana River NAS ① (N) (NC)	11 SE Cocoa	9	116 L S6	87,98 oct. Ramps,all facs.
①Bob Orrell (Daytona Beach) (NC)	2 N	S.L.	264 S4	Fuel, ramp, float.
‡Bradenton (NC)	Adj N	1	Unl. S1	73 oct.80 oct. on req. Ramp, float.
(N)Jacksonville NAS ① (N) (NC)	7.2 S	S.L.	Unl:R1 L5 S4	91,100 oct.Ramps,all facs.
‡Lotela(Avon Park) (NC)	2 SE,RR SW	100	66 S1	80 oct.Beach.
(N)Melbourne (N)(NC)	Adj. S	S.L.	Unl.	INACTIVE.Float.
①Peter O. Knight (Tampa) (NC)	4 S,arpt W	8	Unl. S6	80 oct.Ramps, all facs
①Raymond's(Daytona Beach) (NC)	1.5 N	S.L.	Unl. S6	80 oct.91 oct. on req. Ramps.
‡Raymonds(Orlando) (NC)	2 W		50 S1	80 oct.Float.Twr NE. Data not verified.
‡St.Augustine (NC)	Adj. S	S.L.	Unl. S1	80,91 oct.Float,beach, dolly.
(N)St.Petersburg ① CGAS (N)(NC)	2.5 E	S.L.	Unl. L S4	80-100 oct. Ramps.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii)(NC)-Not charted.

JACKSONVILLE

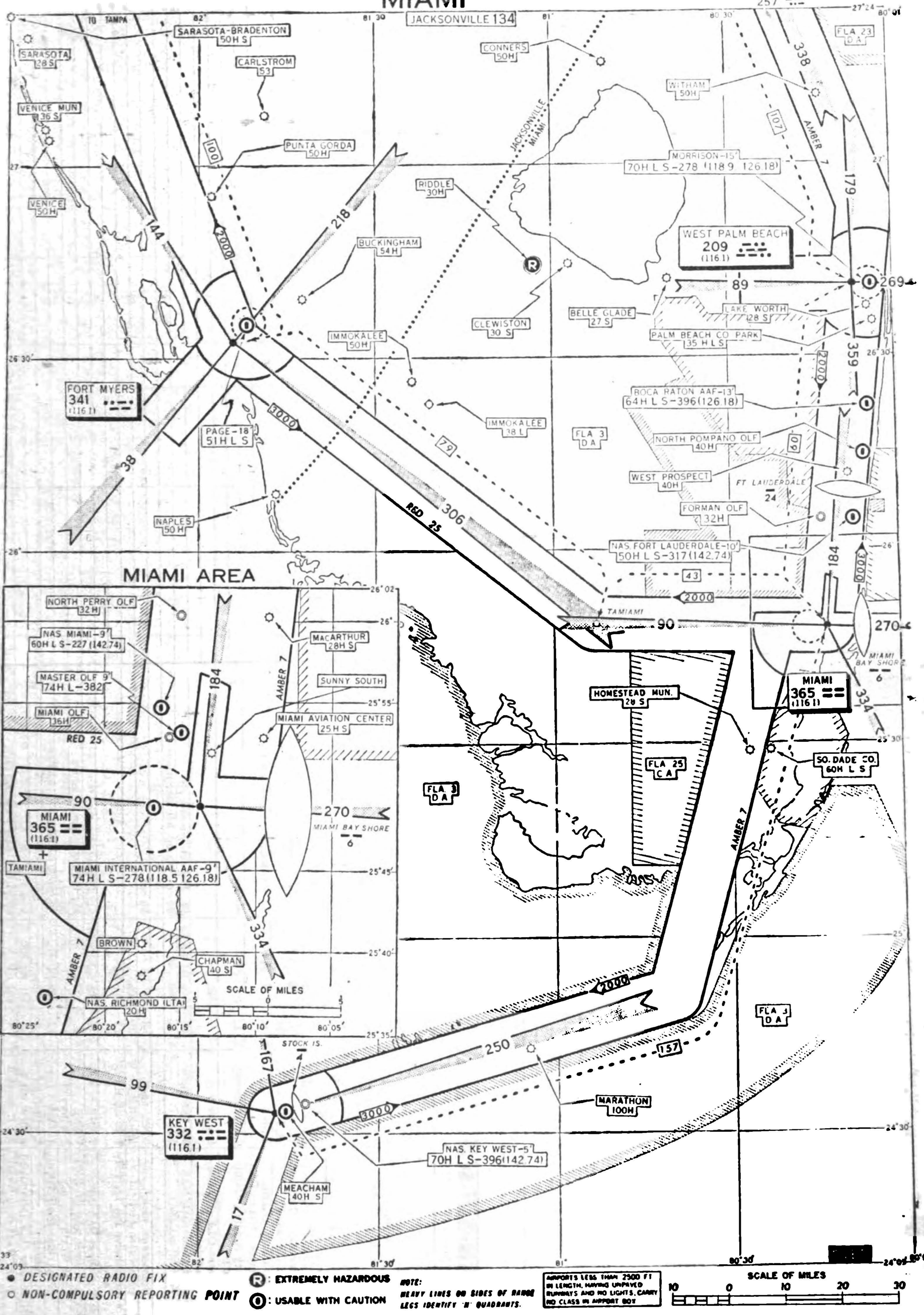


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
TO FIXT RIVERS

(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX

MIAMI


TO TAMPA
SARASOTA-BRADENTON 50H S
SARASOTA 28 S
CARLSTROM 53
VENICE MUN 36 S
PUNTA GORDA 50H
VENICE 50H
JACKSONVILLE 134
CONNERS 50H
MELBOURNE 257
FLA 23 D A
WITHAM 50H
338
107
AMBER 7
179
JACKSONVILLE MIAMI
MORRISON-15' 70H L S-278 (118.9 126.18)
RIDDLE 30H
218
144
100
2000
BUCKINGHAM 54H
WEST PALM BEACH 209 (116.1)
89
269
BELLE GLADE 27 S
CLEWISTON 30 S
LAKE WORTH 28 S
PALM BEACH CO. PARK 35 H L S
IMMOKALEE 50H
359
BOCA RATON AAF-13' 64H L S-396(126.18)
FORT MYERS 341 (116.1)
PAGE-18 51H L S
3000
IMMOKALEE 38 L
79
FLA 3 D A
NORTH POMPANO OLF 40H
60
38
WEST PROSPECT 40H
FT LAUDERDALE 24
306
RED 25
NAPLES 50H
FORMAN OLF 32H
NAS. FORT LAUDERDALE-10' 50H L S-317(142.74)
43
184
TAMIAMI
90
270
MIAMI BAY SHORE 6
MIAMI AREA
NORTH PERRY OLF 32 H
NAS. MIAMI-9' 60H L S-227 (142.74)
MACARTHUR 28H S
MASTER OLF 9' 74H L-382
SUNNY SOUTH
MIAMI OLF 36H
MIAMI AVIATION CENTER 25H S
HOMESTEAD MUN. 28 S
MIAMI 365 (116.1)
334
SO. DADE CO. 60H L S
FLA 25 C A
FLA 3 D A
MIAMI INTERNATIONAL AAF-9' 74H L S-278(118.5 126.18)
TAMIAMI
BROWN
CHAPMAN 40 S
NAS. RICHMOND (LTA) 20H
SCALE OF MILES
STOCK IS.
167
99
250
157
MARATHON 100H
KEY WEST 332 (116.1)
NAS. KEY WEST-5' 70H L S-396(142.74)
MEACHAM 40H S
17
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'H' QUADRANTS.
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BDY
SCALE OF MILES
10 0 10 20 30

RADIO — FLORIDA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOCA RATON AAF	396 (126.18)	CA	(3), 126.18 (6-24)
FORT LAUDERDALE FM	(-)	FM, 4°, 24.4	Miami
FORT LAUDERDALE NAS	317 (142.74)	CN	3105,4495;142.74 (7-2330)
FORT MYERS (Page)	341 (FM)(116.1)	SBRAZ-VDT,38°,3.6	(4), 116.1
KEY WEST	332 (KW)(116.1)	SBRAZ-VDT	(4), 116.1
Key West NAS	396 (142.74)	CN, 70°, 5.8	(3);142.74 (sunrise to sunset)
Key West NAS (Seaplane)	272 (142.74)	CN	3105,142.74 (prior req.)
MASTER OLF (Miami)	382	CN	(3); 142.74 (7-sunset)
MIAMI BAY SHORE FM	(- -)	FM, 90°, 6	Miami
MIAMI	365(MM)(116.1)	SBRAZ-VDT	(4).116.1
Miami International Arpt.	278 (126.18) (118.5)	AC, 270°, 2.3	(4); 131.9, 126.18, 118.5
Miami NAS	**227 (142.74)**	**CN**	**3105,4495; 142.74**
MORRISON FIELD (West Palm Beach)	**278 (126.18) (118.9)**	**C**	**(4); 118.9, 131.9 only**
STOCK ISLAND LFM	**(-)**	**LFM, 70°, 4**	**Key West**
WEST PALM BEACH (Morrison Field)	**209 (DWZ) (116.1)**	**BMRAZ-VDT,89°,2.4**	**(4), 116.1**

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arcadia	2 SE,hwy W	60	30	Trees around fld.
Belle Glade	1 NNE,lake W	17	27 S6	73 oct. No sto. Light acft.
(A) Boca Raton AAF (A)	2 NNW,canal E	13	64h R1 L5 S6	73, 91, 100 oct. Twr SE.
Brown (Miami)	10 SSW,RR NW	10	20 S6	80, 91 oct. No sto. Trees E.
Buckingham (Ft.Myers)	10 E,riv SW	23	54h	
Carlstrom (Arcadia)	7 SSE,hwy N	56	53	
©Chalk's (Miami) (NC)	2 E,causeway N	S. L.	Unl. S4	80 oct. Beach, ramps, winch
Chapman (Miami)	10 SW,RR W	3	40 S6	80,91 oct. No sto. Pwr line W.
Clewiston	1.6 SW,RR N	19	30 S6	80 oct. Pole line N, E, S, W.
Conners (Okeechobee)	2.5 NW, RR S	34	50h	
(N)©Dinner Key CGAS (N)(NC)	2.5 SE	S. L.	150 L5 S4	100 oct. Ramps, haulout facs.
Dorr (Arcadia)	11.5 E,hwy N	74	53	
©East Coast Aviation Service (Miami)(NC)	8 NNE	S. L.	132 S4	80 oct. Ramps, buoys, obsts.
©Embry Riddle (Miami) (NC)	2 E,causeway S	S. L.	65 S4	80 oct.
(N) Forman OLF (Ft. Lauderdale) (N)	6.5 WSW	7	32h	
(N) Fort Lauderdale NAS	3.5 SSW,RRW	10	50h R1 L5 S4	91, 100 oct. No sto. (N)
©Fort Myers (NC)	2 N	S. L.	Unl. S4	80 oct. Ramp, all facilities.
Homestead, mun.	2 NE, rd N	8	28 S6	80 oct.
Immokalee Airfield	1.3 ENE,RR W	20	50h	
★ Immokalee Int, 13, TM-MM	5.25 SE,RR SW	23	38 L2	
(N) Key West NAS (N)	7 ENE	5	70h R2 L5 S4	91, 100 oct. No sto.
(N)©Key West NAS (N) (NC)	7 ENE	S. L.	130 R1 L S6	91, 100 oct. Ramps, buoys
Lake Worth	2 W,hwy N	12	28 S1	80 oct.
MacArthur (Hollywood)	1 SW,RR E	12	28h S4	80, 91 oct. No sto. Trees SE.
Marathon	1.8 ENE,hwy S	6	100h	
(N) Master OLF (Miami)(N)	8 NNW,RR W	9	74h R1 L5	Pwr line SE.
MEACHAM (Key West)	2.3 E,ocean S	4	40h S1	80,91 oct. ARPT OF ENTRY.
Miami Aviation Center (Miami)	7.5 NNE,bay E	8	25h S6	80, 91 oct. No sto.
Miami Aviation Center (Miami)(NC)	8.5 N	S. L.	Unl. S1	80 oct. Data not verified.
(A) MIAMI INTERNATIONAL - AAF	5.5 NW,RR S	9	74h R2 L5 S6	91, 100 oct. JP-1. FEE. 2-way radio on req. AIRPORT OF ENTRY.
(N) Miami NAS (N)	10.7 NW,canal N	9	60h R1 L5 S6	91, 100 oct. No sto.
(N) Miami OLF (N)	7.9 NNW,RR E	91	36h	
©Midet (West Palm Beach) (NC)	1 N	S. L.	158 S4	80, 87 oct. Ramps, all facs. ARPT. OF ENTRY.
(A) MORRISON (West Palm Beach) (A)	2 W,canal S	15	70h R2 L5 S5	73-100 oct. CLOSED. FOREIGN CLEARING STATION
Municipal (Lake Worth)	Adj Lake Worth	S. L.	Unl. S1	80 oct. Ramp, beach, obsts E. Data not verified.
Naples	2 NE,RRs E,W	8	50h	
(N) North Perry OLF (Hollywood)	6.3 W	9	32h	
(N) North Pompano OLF	1.5 NE,RR W	21	40h	(Pompano)
PAGE (Ft. Myers)	4 S,RR SE	18	51h R1 L5 S6	80, 91 oct. Ground traffic
Palm Beach County Park (Lantana)	2 WNW,lake N	16	35h L5 S6	80, 91 oct. Fld lgts prior req. Lake E
(P) Punta Gorda	5 ESE,hwy SW	22	50h	
Punta Gorda, mun.(NC)	3 SSE,hwy E	4	24	
(N) Richmond NAS (LTA)	15 SW Miami	13	20h	INACTIVE. (N)
Riddle (Clewiston)	7.6 W,hwy N	19	30h	Use rnwys only.
SARASOTA-BRADENTON (Sarasota)	3.5 NNW,hwy W	24	50h L5 S6	80, 91 oct.
Sarasota, com.	2.5 E,RR S	25	28 S1	80 oct.
Sonny South (Miami)	6 N,hwy N	12	27	
Tamiami (Miami)	12 W		35h S4	80, 91 oct. No sto. Data not verified.
Venice	2 S,RR E	15	50h	Pole lines N, E.
Venice, mun.	0.5 SE,RR E	20	36 S2	80 oct.
Oakland Park (West Prospect)	2.5 WNW	14	40h	Trees sur field.
(P) Witham (Stuart)	1.5 SE,RR SW	17	50h	
→ So.Dade Co.(Homestead)	5 E	8	60h L5 S6	87 91 oct. No sto.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page IIIII) (NC)-Not charted.

RADIO

CALIFORNIA

LOCATION	FREQ.,IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURBANK (Lockheed Air Terminal)	248(BU)(116.1)	SML-VDT;93°,3	(4);116.1
BURBANK LFM	(- -)	LFM 97°, 1.5	Burbank
CHATSWORTH	341 (L)	FMK;277°, 10.6	Burbank
CHATSWORTH LFM	(. . - - - -)	LFM, 276°, 10.5	Burbank
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
DOWNEY	379 (V)	FMK; 77°, 11	Los Angeles
EL TORO MCAS	3295(142.74)	CN	3105,4495;126.18,142.74
GLENDALE	371 (S)	K, 97°, 7.3	Burbank
GRAND CENTRAL ARPT (Glendale)	201	CI	(4);131.9, (7-18)
HAWTHORNE NORTHROP	396 (126.18)	CA	(3);126.18 (730-2230)
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LOCKHEED AIR TERMINAL (Burbank)	278 (126.18) (118.3)	AC	(4);131.9,126.18,118.3
LONG BEACH	233 (HB)	SBMRLZ-DT	(3)
Long Beach Airport	347 (126.18) (118.5)	AC; 298°, 3.9	(4);131.9,118.5,126.18
LOS ALAMITOS NAAS	317 (142.74)	CN	3105;142.74 (8-1730)
LOS ANGELES	260 (LA)	SBRAZ-DTX	(4)
Los Angeles Airport	272 (126.18)	C (ILS);244°,3.8	(4):116.1,126.18
NEWHALL (Int)	209(NH)(116.1)	BMRL-VDT;317°,0.1	(4);116.1
SANTA ANA (Navy)	472 (NTK)	BMRLZ	3105;142.74 (13-5)
Santa Ana NAS	6970(142.74)	CN;2500,0.6	3105,3195,142.74 (flying hrs & req)
SANTA MONICA AIRPORT	272 (126.18)	CI	(3);126.18 (8-18)
TERMINAL ISLAND NAS (San Pedro)	338 (142.74)	CN	(3),142.74 (flying hrs)
VAN NUYS METROPOLITAN AIRPORT	219 (126.18)	CA	(3);126 18 (7-19)

COLORADO

AURORA LFM	(- - -)	LFM, 155°, 9.5 — Denver
DENVER (Stapleton Airfield)	379 (DV) (111.1)	SBMRAZ-VDTX;159°, 2.5 — (4), 131.7
DENVER (9 mi ENE Stapleton)	109.1 (DV) 111.1	VAR-VDT — (4), 131.7
HENDERSON FM	(-)	FM, 348°, 8.6 — Denver
LOWRY FIELD (Denver)	396 (126.18)	CA — (3);126.18
SKY RANCH ARPT (Denver)	206	CI — (3) (sunrise to sunset)
STAPLETON AIRFLD(Denver)	278 (126.18) (118.7)	AC (ILS) — (4);131.9,126.18
WATKINS FM	(- -)	FM, 59°, 14.8 — Denver

– DENVER AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
STAPLETON, COLORADO	110.3	335	206° Mag.	IM	MM .....(.64)	OM --(4.2)
					MK/K	OMK

– LOS ANGELES AREA –

LOS ANGELES, CALIFORNIA	109.9		247° Mag.	IM (.05)	MM	OM (2.45)
					MMK	OMK

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

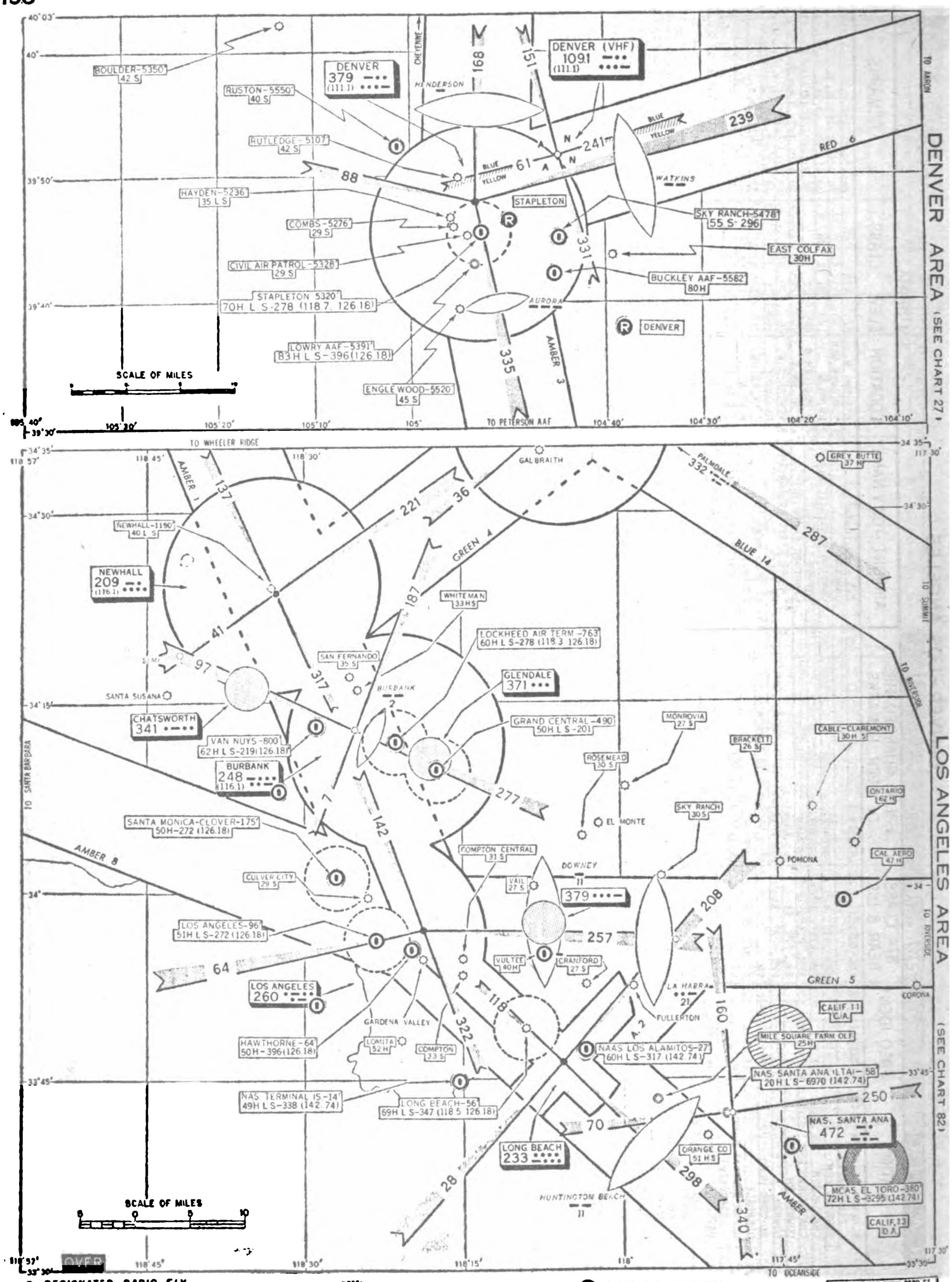
CALIFORNIA

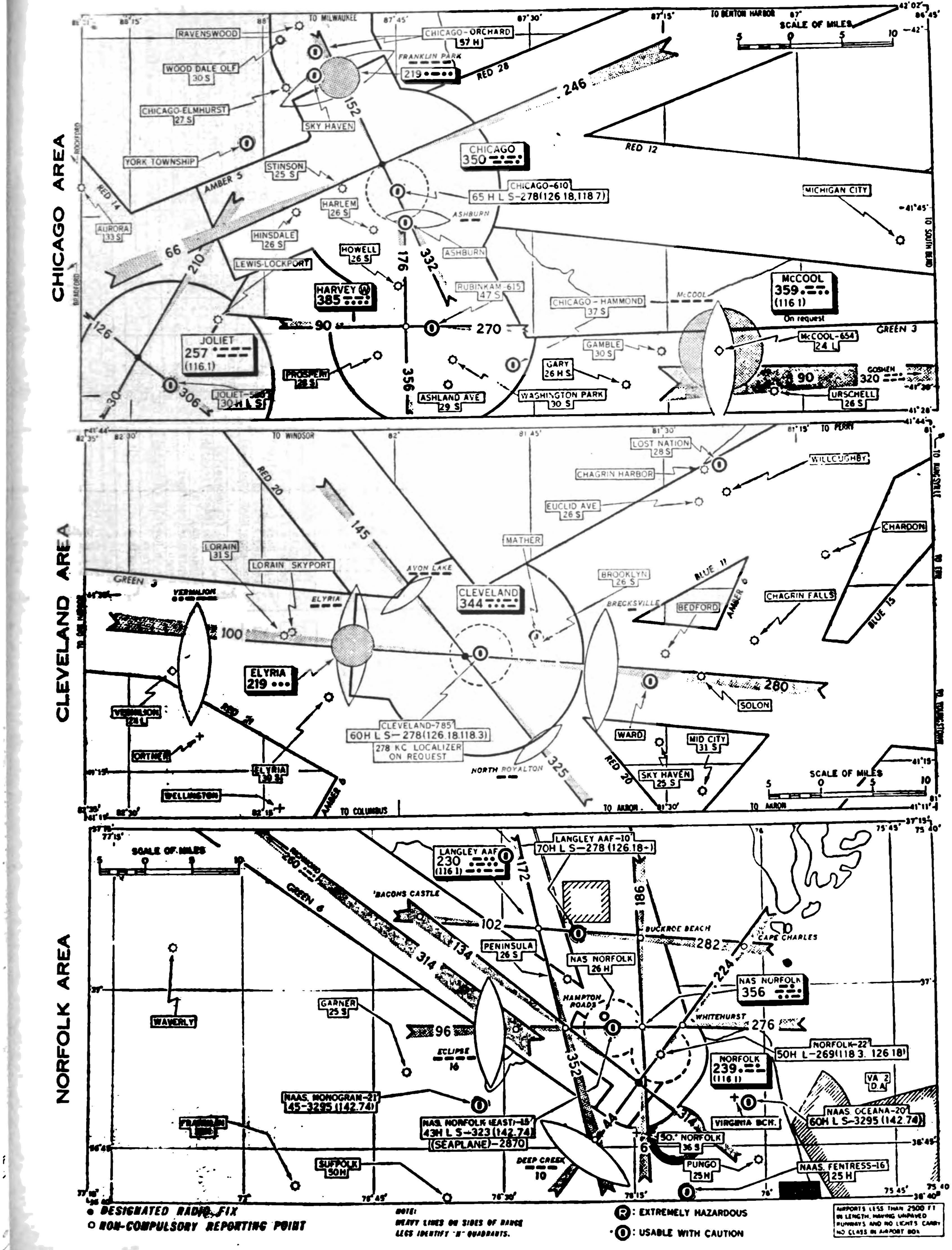
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Brackett (Pomona)	3 NW;hwys S,E	1010	26 S6	80 oct. Fence W.
Cable-Claremont	1.8 ENE;RR E	1400	30h S4	80,91 oct.
Cal Aero (Ontario)	5 SSE;hwy W	625	47h	Rest'd to D.P.C.
Compton	1.5SW;hwyE,W,N	90	33 S6	80 oct. Poles E, N.
Compton Central(Compton)	2 NW,RR W	100	31 L S6	80,91 oct. No sto. B-2 lgts req.
Corona	2.3 ESE; RR N	645	22 S4	80,91 oct. Pole line W.
Cranford (Artesia)	2.1 NE,RR W	55	27 S6	80 oct. Pole line S.
Culver City(Los Angeles)	9 WSW;RR S W	25	29 S6	80 oct. Poles NE.
El Monte	1 NNE;rd E	300	21 S6	80 oct. Trees SW. Bldgs NE
(N) EL Toro MCAS (N)	3.7 NW;RR SW	380	72h R1 L5 S4	73,87,91,100 oct.
Fullerton	3 W,RR N	95	18 L1 S6	80 oct.
Galbraith (Palmdale)	0.3 W;RR E	2660	21 S1	73,90 oct.
Gardena Valley (Gardena)	2 NW, RR SE	50	23 S6	80 oct. Pole line E.
Grand Central (Glendale)	2.2 NW;bet RR and river	490	50h R1 L5 S6	73,83,91,100 oct.
Grey Butte (Victorville)	22 W	3050	37h	Mts. S.
Hawthorne	1.2 E;RR S	64	50h R1	Poles W. Closed to transients.
Hughes (Culver City)(NC)	3.6 SSW;RR N	15	91	Pole line NE. RESTRICTED.
LOCKHEED AIR TERMINAL (Burbank)	3.5 WNW;RR S	763	60h R2 L6 S6	73 80 91 100 oct. No sto. Two-way radio required.
Lomita Landing Strip	1 W;hwy S	95	52h	Mts. S.
(A) LONG BEACH	3 NE;RR W	56	69h R2 L6 S6	80,91,100 oct. JP-1. No sto.
(N) Los Alamitos NAAS (N)	1 SE;riv W	27	60h R1 L5 S4	73,91,100 oct.
(A)(N) Los Angeles(MinesFld)	9.5 SW,RR E	96	51h R3 L6 S6	91,100 oct.Rdo req. ARMY INACT.
(N) Mile Sq.Farm OLF (San Diego)	3.5 SE;riv E	44	25h L	Pwr lines S
Monrovia	0.5 SE;RR S	500	27 S6	80,91 oct.
★ Newhall Int.3A,LA-SP	2.2 NW;RR E	1190	40 R1 L3 S1	90 oct. for airlines.
Norco	2.5 N;RR S	590	14 S1	80 oct.
Ontario	1.5 E;bet RRs	934	62h	
Orange Co. (Santa Ana)	5 S,at fork rds	45	51h S6	80-100 oct.
(N) Palisades OLF (N)(NC)	2 E Costa Mesa	107	25	Bay N,W.
Pomona	1.8 SSE;riv S	775	20 S6	80 oct.
Rosemead (El Monte)	1 W,RR N	255	30 S6	80,91 oct. No sto.
San Fernando	1.2 E,hwy SW	1150	35 S6	80 oct. Poles SW.
(N) Santa Ana NAS (LTA)(N)	3.6 SE,RR NE	58	20h R2 L5 S4	91,100 oct. No sto.
(P) Santa Monica	2.6 ESE,rd E	175	50h R1 L5	No ben.Lgts prior req.
Santa Susana	0.5 S,RR N	955	19 S6	73 oct.No sto. Pwr line W.
Sky Ranch (Puente)	1.3 E,RR S	402	30 S4	80 oct. No sto.
(N) Terminal Is. NAS (San Pedro) (N)	2 ENE	14	49h R1 L6 S1	91,100 oct. NAFC.
Vail (Los Angeles)	6.5 E,RR SW	175	27 S6	80,91 oct. Radio repairs.
(A,N)Van Nuys Met.(A,N)	2.8 NW,RR N	800	62h R1 L5 S4	100 oct.
Vultee (Downey)	1.5 SSE,hwy W	100	40h L1	60' trees WSW. RESTRICTED.
Whiteman (San Fernando)	2 SE;RR N	1000	33h S6	80 oct. Pole line NNW,NE,SW.
(N)(C)San Pedro NAS (N)(NC)	2 ENE	S.L.	Unl L1 S4	73-100 oct. Ramps; all facs.
Montebello	2 SSW;RR S	180	34 S6	80,91 oct.

COLORADO

Boulder	3 ENE;RR NW,S	5350	42 S5	80,91 oct. Bldg N	
(P) Buckley (Denver)(A)	12.5 ESE	5582	80l	INACTIVE.	
Civil Air Patrol (Denver)	3.9 E	5328	29 L S6	80 oct. Flood lgts.	
Combs (Denver)	3 NE;RR N	5276	29 S6	80,91 oct. Pole line N, S.	
East Colfax (Watkins)	2.7 WSW,hwy N	5650	30 S4	73 oct. Poles N, NW.	
Englewood	6.8 SSE;hwy S	5320	45 S6	80,91 oct. No sto.	
(A) Lowry (Denver) (A)	5.3 ESE	5391	83h R1 L5 S6	91,100 oct. JP-1.	
Ruston (Denver)	10 NNW;hwy W	5550	40 S1	80,91 oct. Pole line W,SW.	
Rutledge (Dupont)	1 S;bet RR,hwy	5107	42 S6	80 oct. Pole lines sur fld.	
Sky Ranch (Denver)	12.6 E;RR S	5478	55 R1 S6	73,80,91 oct.	
STAPLETON (Denver)	5 ENE,RR N	5320	70h R3 L6 S6	80,91 oct.	
Vest Acft. Co. (Denver)	3.8 NE;hwy W	5236	35 L2 S6	80,91 oct.	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page xiii) (NC)-Not charted.


DENVER AREA (SEE CHART 27)
LOS ANGELES AREA (SEE CHART 82)
DENVER
379
(111.1)
DENVER (VHF)
109.1
(111.1)
BOULDER-5350
42 S
RUSTON-5550
40 S
RUTLEDGE-5107
42 S
HAYDEN-5236
35 L S
COMBS-5276
29 S
CIVIL AIR PATROL-5328
29 S
STAPLETON 5320
70H L S-278 (118.7, 126.18)
LOWRY AAF-5391
83H L S-396(126.18)
ENGLEWOOD-5520
45 S
STAPLETON
SKY RANCH-5478
55 S-296
EAST COLFAX
30H
BUCKLEY AAF-5582
80H
DENVER
HENDERSON
AURORA
WATKINS
BLUE
YELLOW
RED 6
239
241
61
88
168
151
331
335
AMBER 3
TO AKRON
TO PETERSON AAF
SCALE OF MILES
TO WHEELER RIDGE
GALBRAITH
PALMDALE
332
GREY BUTTE
37 H
NEWHALL-1190
40 L S
NEWHALL
209
(116.1)
WHITEMAN
33 H S
LOCKHEED AIR TERM -763
60H L S-278 (118.3 126.18)
SAN FERNANDO
35 S
GLENDALE
371
SANTA SUSANA
CHATSWORTH
341
VAN NUYS -800
62H L S-219(126.18)
BURBANK
248
(116.1)
GRAND CENTRAL -490
50H L S -201
MONROVIA
27 S
BRACKETT
26 S
CABLE-CLAREMONT
30H S
ROSEMEAD
30 S
EL MONTE
SKY RANCH
30 S
ONTARIO
62 H
POMONA
CAL AERO
47 H
SANTA MONICA-CLOVER-175
50H-272 (126.18)
COMPTON CENTRAL
31 S
DOWNEY
VAIL
27 S
379
CULVER CITY
29 S
LOS ANGELES-96
51H L S-272 (126.18)
VULTEE
40H
CRANFORD
27 S
LOS ANGELES
260
LA HABRA
21
FULLERTON
GARDENA VALLEY
LOMITA
52 H
COMPTON
33 S
HAWTHORNE-64
50H-396(126.18)
NAAS LOS ALAMITOS-27
60H L S-317 (142.74)
CALIF 11
C/A
MILE SQUARE FARM OLF
25H
NAS SANTA ANA (LTA)-58
20H L S-6970 (142.74)
NAS TERMINAL IS-14
49H L S-338 (142.74)
LONG BEACH-56
69H L S-347 (118.5 126.18)
LONG BEACH
233
ORANGE CO
51 H S
NAS, SANTA ANA
472
MCAS, EL TORO-380
72H L S-9295 (142.74)
CALIF 13
D A
HUNTINGTON BEACH
11
CORONA
GREEN 5
GREEN 4
BLUE 14
AMBER 1
AMBER 8
AMBER 2
137
221
36
187
41
97
317
142
277
257
64
322
118
160
A 2
287
208
250
70
28
298
340
TO SANTA BARBARA
TO RIVERSIDE
TO SUNMIT
TO OCEANSIDE
SCALE OF MILES
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.


CHICAGO AREA
RAVENSWOOD
WOOD DALE OLF 30 S
CHICAGO-ELMHURST 27 S
YORK TOWNSHIP
AURORA 33 S
LEWIS-LOCKPORT
JOLIET 257 (116.1)
JOLIET-30 H L S
PROSPECT 28 S
HINSDALE 26 S
HARLEM 26 S
HOWELL 26 S
HARVEY (W) 385
ASHLAND AVE 29 S
STINSON 25 S
SKY HAVEN
FRANKLIN PARK
219
CHICAGO-ORCHARD 37 H
CHICAGO 350
CHICAGO-610
65 H L S-278(126.18,118.7)
ASHBURN
RUBINKAM-615
47 S
CHICAGO-HAMMOND 37 S
GAMBLE 30 S
GARY 26 H S
WASHINGTON PARK 30 S
McCOOL 359 (116.1)
On request
McCOOL-654 24 L
GREEN 3
GOSHEN 320
URSCHELL 26 S
MICHIGAN CITY
TO MILWAUKEE
TO BENTON HARBOR
SCALE OF MILES
RED 28
RED 12
RED 14
AMBER 5
246
152
66
210
126
306
30
176
332
356
270
90
TO SOUTH BEND
CLEVELAND AREA
TO WINDSOR
TO PERRY
TO COLUMBUS
TO AKRON
LOST NATION 28 S
CHAGRIN HARBOR
EUCLID AVE 26 S
WILLOUGHBY
CHARDON
CHAGRIN FALLS
BROOKLYN 26 S
BEDFORD
BRECKSVILLE
MATHER
LORAIN 31 S
LORAIN SKYPORT
AVON LAKE
ELYRIA
VERMILION
CLEVELAND 344
CLEVELAND-785
60H L S-278(126.18.118.3)
278 KC LOCALIZER ON REQUEST
ELYRIA 219
VERMILION 23 L
ORTNER
ELYRIA 30 S
WELLINGTON
NORTH ROYALTON
WARD
MID CITY 31 S
SKY HAVEN 25 S
SOLON
RED 20
RED 24
AMBER 6
BLUE 11
BLUE 15
GREEN 3
100
145
325
280
NORFOLK AREA
SCALE OF MILES
LANGLEY AAF 230 (116.1)
LANGLEY AAF-10
70H L S-278 (126.18-)
BACONS CASTLE
GREEN 6
PENINSULA 26 S
NAS NORFOLK 26 H
BUCKROE BEACH
CAPE CHARLES
NAS NORFOLK 356
HAMPTON ROADS
WHITEHURST
276
NORFOLK-22
50H L-269(118.3, 126.18)
NORFOLK 239 (116.1)
VA 2 D A
VIRGINIA BCH.
NAAS OCEANA-20
60H L S-3295 (142.74)
SO. NORFOLK 36 S
PUNGO 25 H
NAAS FENTRESS-16 25 H
WAVERLY
GARNER 25 S
ECLIPSE 16
NAAS MONOGRAM-21
45-3295 (142.74)
NAS NORFOLK (EAST)-45
43H L S-323 (142.74)
(SEAPLANE)-2870
SUFFOLK 50H
DEEP CREEK 10
102
282
224
186
172
352
314
134
96
100
360
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS IN AIRPORT BOX

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM,152°, 6.25	Chicago
CHICAGO	350(CG)(116.1)	SBRAZ-VDTX	(4);116.1
Chicago Airport	278(126.18) (118.7)	AC (ILS);152°,2.2	(4);131.9,126.18,118.7
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
FRANKLIN PARK	219 (L)	FMK; 332°, 9.5	Chicago
HARVEY (Rubinkam)	385 (GH)	MLWZ; 90°, 2.2	
JOLIET	257(JO) (116.1)	SBRAZ-VDT; 126°,3.6	(4); 116.1

INDIANA

McCOOL (Int)	359(ML) (116.1)	MHVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

OHIO

AVON LAKE LFM	(- - - -)	LFM, 325°, 8.1	Cleveland
BRECKSVILLE FM	(- - -)	FM, 201°, 10.3	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX	(4)
Cleveland Airport	278 (126.18) (118.3)	AC (ILS);100°,0.7	(4); 118.3, 126.18
ELYRIA FM	(- - -)	FM, 280°, 10.9	Cleveland
ELYRIA	219 (S)	FMK, 280°, 10.9	Cleveland
NORTH ROYALTON LFM	(- -)	LFM, 145°, 10.8	Cleveland
VERMILION FM	(. - - - -)	FM, 280°, 26	Cleveland

VIRGINIA

DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk NAS East Field
LANGLEY FIELD (Army)	230(DLY) (116.1)	SBMRAPZ-VDT	(3); 116.1
Langley Field	278 (126.18) (116.1)	CA; 102°, 3.5	(4); 126.18 only
MONOGRAM NAAS(Drivers)	3295(142.74)	CN	3105,4495;142.74 (on req only)
NORFOLK	239(NW)(116.1)	SBMRLZ-VDT	(4):116.1
Norfolk Airport	269 (126.18) (118.3)	AC; 449, 3.4	(4);131.9,126.18,118.3
Norfolk (Navy)	356 (NGU)	BMRLZ	
Norfolk NAS(East Fld)	323 (142.74)	CN; 276°, 2.9	(3); 142.74
Norfolk NAS(Seaplane)	2870	CN	2870 (7-17 & on req)
OCEANA NAAS	3295(142.74)	CN	3105,4495;142.74(745-1830)

– CHICAGO AREA –

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. on mcs. Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CHICAGO, ILL.	109.9		132° Mag.	IM ·-·-·(.04)	MM	OM --(1.89)
					MMK 201 ···(.71)	OMK

– CLEVELAND AREA –

CLEVELAND, OHIO	109.9		54° Mag.	IM ·-·-·(.06)	MM	OM --(4.75)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Ashburn (Chicago)	12 SW;hwy W	620	16 S4	73,80 oct.Unsafe after rain.
Ashland Ave(Chicago Hgts)	1.5 NW;hwy S	675	29 S6	80,91 oct.Obsts sur fld.
Aurora	3 NNW	701	33 S4	80 oct. Twr NE;stack SE.
(A,N)CHICAGO	9 SW of loop	610	65h R3 L6 S6	73,80,91 oct. FEE.
Chicago-Elmhurst(Elmhurst	2.5 N;hwy SW	707	27 S6	80,91 oct.Poles S,E.
(A) Chicago-Orchard	16 NW;RR W	657	57h	
Chicago-Hammond(Lansing)	1.5 S;RR N	660	37 L1 S6	73,80oct.Obsts sur. fld.
Harlem (Oaklawn)	2.2 WNW;hwy W	610	26 S6	80 oct.Pole line E.
Hinsdale	3 S;hwy SE	710	26 S6	73,80 oct. Rolling ground.
Howell (Blue Island)	3 W; hwy E	600	26 S4	80 oct. Obsts sur fld after 2400.
Joliet,22,IS-CG	5 W;riv W	580	30h R1 L4 S4	80, 91 oct.Flood lgts prior req

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page xiii) (NC)-Not charted.

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lewis-Lockport(Lockport)	2.2 WNW;hwy E	664	26 S6	80,91 oct. Twr SE.Obsts sur fld.
Prosperi (Tinley Park)	1.7 SSW;hwy W	695	28 S6	80 oct.
Ravenswood (Des Plaines)	2.5 SW;hwy E	650	17 S6	80 oct. No sto.
(P) Rubinkam (Harvey)	2.5 SW;hwy N	615	47 L1 S5	73,80,91 oct.Use W part only.
St. Charles (NC)	3.5 E;RR E,S	760	18h	Pole line N.
Sky Haven(Bensenville)	1.5SE;bet RR,rd	650	22 S1	73,80oct. Use strips only.
Stinson (La Grange)	2 SE;hwy SE	644	25 S6	80,91 oct.Pole line S,W.
(P) Washington Park(Homewood)	1.5 SE;hwy E	625	30 S6	80,91 oct.Allway area.
Wood Dale (Glenview)	10.5 SW	711	30 S5	80 oct.
York Township(Lombard)	2 SSW;hwy N	726	20 S6	80 oct.Use strips.Pole line N.E.

INDIANA

Gamble (Hobart)	1.8 NNW;hwy S	650	30 S4		73,80 oct.Obst sur fld.
Gary	6 S;hwy W	610	26h S6		80,91 oct.Trees N,E,S.
★ McCool Int,3,CG-LG	2 SW;hwy S	654	24 R1 L3		
Michigan City	4 E;RR N	650	24 S1		80,91 oct.Pole line E,S,W.
Urschell(Valparaiso)	1.7 NNE;hwy E	766	26 S2		80 oct.Pole line N.

OHIO

Bedford	2 NE;hwy W	1060	17 S2		73 oct.
Brooklyn (Cleveland)	5.5 SW;RR S	780	26 S2		73 oct.
Chagrin Falls	3 E;hwy SW	1220	23 S4		80 oct. Pole line N.
Chagrin Harb.(Willoughby)	2.5 NNW	620	22 S6		80 oct. Pole line W.
Chardon	2.8 S	1230	22 S1		80 oct. Pole lines sur fld.
(A) CLEVELAND	8.5 SW;riv W	785	60h R3 L6 S6		73,80,91,100oct.JP-1.FEE. ARPT.
Elyria	1.6 SSW;RR NW	745	30 S2		80 oct. Poles SE.
Euclid Ave.(Willoughby)	1.5 WSW;RR N	640	26 S6		80 oct.Poleline S,hi-line N.
Lorain	2.1 SW;RR N	610	31 S1		80 oct.Pole line NE,SE.
Lorain Skyport(Lorain)	2.8 W;lake NW	610	30 S1		80 oct.Pole line S,SE.Rnwy data unver.
Lost Nation (Willoughby)	3 N;lake NW	626	28 S6		80,91 oct.Obsts sur fld.
Mather (Cleveland)	5 SW;RR S	740	19 S2		80 oct.
Mid City (Hudson)	2 S;RR S	1080	31 S4		80 oct.Poles W,NW.
Ortner (Wakeman)	4 NNE;RR S		26 S1		73 oct.Data not verified.
Sky Haven (Northfield)	2.5 SSE;RR NE	1040	25 S4		73,80oct.No sto.Pwr line W,S.
Solon	1.1 SSE;RR NE	1034	24 S6		73,80 oct.Pole line SE,W.
★ Vermilion Int, 28,CG-LG	3.7 SW;RR SE	610	24 L3		
Ward (Bedford)	1.5 S;RR E	980	20 S4		80 oct.No storage.
Willoughby	1.2 E;RR NW	700	22 S6		80 oct. Pole line sur fld.
Ⓓ Breckling(Clevelsnd)(NC)	1 E	573	30 S4		80 oct.No sto.Buoys,ramp,boat. Unverified.

VIRGINIA

(N) Fentress NAAS (N)	2.5 ESE;hwy N	16	25h		INACTIVE.
(P) Franklin	1.7 NE	38	30h		
Garner's (Windsor)	4.8 NNE;hwy W	80	25 S2		80 oct.
Glen Rock (Norfolk)(NC)	4.5 E;RR S	18	24		Twrs,pole line SW.
(A) Langley Field (A)	3 N Hampton	10	70h R2 L5 S6		73,91,100 oct.JP-1
(N) Monogram NAAS (Drivers)	2.8 W;riv W	21	45 R1		INACTIVE, (N)
NORFOLK	5 ENE;RR SE	22	50h R2 L5		
(N) " NAS (Chambers)(N)	7 N;rd N	13	26h		CLOSED. Use East Field.
(N) " NAS (East Field)(N)	6 N;RR SW	15	43h R2 L5 S6		91,100 oct.NATS,NAFC.
(N) Oceana NAAS (N)	1 SW;RR N	20	60h R1 L5 S4		91,100 oct.No bcn.
Peninsula(Hampton)	2 WSW;RR N	12	26 S4		80 oct.
Pungo	0.8 NE	15	25h		
South Norfolk (Norfolk)	6 SSE		36 S4		Fuel.No sto.Data unverified.
(P) Suffolk	3.8 SSW;RR E	66	50h		
Waverly	2.5 NW;RR SW	115	17 S2		80 oct.Trees,brush sur fld.
Virginia Beach	4.5W;RR,hwy N	15	42 S4		80,91 oct.Pole line N.Data unver.
(A)‡Langley (A)(NC)	3 N Hampton	5	105 S2		Fuel.Dock;Closed ice period.
(N)Ⓓ Norfolk NAS (N)(NC)	7N	S.L.	54 R1 L1 S6		87,91,100 oct.Ramps.

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JERSEYVILLE FM	(-)	FM, 355°, 21	St. Louis, Mo.
SCOTT (Belleville) (Army)	263 (DCD)	SBMRAPZ-DT	(4)
Scott Field	396	CA, 49°, 1.8	(4)

MISSOURI

LAMBERT-ST. LOUIS ARPT. (St. Louis)	278 (126.18) (142.74)	AC (ILS)	(4); 131.9,126.18 142.74
ST. LOUIS(Lambert-St.Louis Airport)	209 (LS)	SBRAZ-DTX,256°, 2.2	(4)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE	219 (L)	FMK; 69°, 7.8	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis

OREGON

PORTLAND	332 (PD)	SBRAZ-DT	(4)
Portland AAB	278 (126.18) (118.3)	AC; 171°, 3.1	(4);142.74,131.9,118.3,126.18
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
WILLAMETTE FM	(. . - -)	FM, 76°, 20.6	Portland

TEXAS

ALAMO (San Antonio) (San Antonio Airport)	344(JR)(116.1)	BMLZ-VDT	(4); 116.1
BROOKS FIELD (San Antonio)	396 (126.18)	CA	(3); 126.18
KELLY FIELD (San Antonio)	219 (126.18)	CA	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
Randolph Field	272 (126.18)	CA; 322°, 2.04	(3); 126.18
SAN ANTONIO (Kelly Field)	254(ZN)(116.1)	SBRAZ-VD, 107°, 1.8	(4); 116.1
San Antonio Arpt.(Alamo Fld)	278 (118.5)	C	(4); 118.5,131.9,126.18
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

WASHINGTON

HOBART FM	(--)	FM, 88°, 15	Seattle
LAKEVIEW FM	(- - -)	FM 175°, 25.5	Seattle
KING CO. AIRPORT (Seattle)	278(126.18) (118.3)	AC	(4); 131.9,140.1, 126.18,118.3
McCHORD (Tacoma)(Army)	272 (DTA)	BMRL	
McChord Field	396 (126.18)	CA (ILS);26°,1.7	(3); 116.1, 126.18
SEATTLE (King Co. Airport)	260(SA)(116.1)	SBRAZ-VDTX,296°,3.3	(4):116.1
Seattle NAS	230 (142.74)	CN	(3); 142.74 (8-sunset) (GCA)
WASHOUGAL FM	(-)	FM, 63°, 17.5	Portland, Oregon
WOODLAND FM	(- - - -)	FM, 331°, 23	Portland, Oregon

– ST. LOUIS AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LAMBERT-ST. LOUIS, MO.	110.3		238° Mag.	IM ·····(.06)	MM	OM	– –(4.50)
					MMK 201 ···(.60)	OMK	

– SEATTLE AREA –

McCHORD, WASHINGTON	109.9	333.8	337° Mag.	IM (.26)	MM ·····(.85)	OM	– –(4.44)
					MMK	OMK	

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Gundlach (Belleville)	1.8 E	514	23	Obsts surround fld.
Lakeside (E. St. Louis)	7 NNE; lake W	420	32 S6	73 oct.
Parks (E. St. Louis)	4.2 SW; RR SE	410	26 L1	25-75' obsts on fld.
Parks Metropolitan (East St. Louis)	3.5 SSW, RR W	420	17h S6	80, 91 oct.
(A) Scott (Belleville)(A)	7.5 ENE; RR S	444	55h R2 L5 S5	73, 91, 100 oct. JP-1.
Wadlow (Alton)	3.5 NNW	600	25 S4	80 oct.

MISSOURI

Black Walnut (St.Louis)	18 NNW	442	20	
Creve Coeur (St. Louis)	14.5 WNW;lake E	445	37	
Ellisville	0.4 NE; hwy S	750	16 S2	80 oct.
Kratz (St. Charles)	1.1 ESE; RR S	442	30 S6	80, 91 oct.
(N) LAMBERT-ST.LOUIS (St.Louis)	10.8 NW,hwy N,W	552	60h R3 L6 S6	80-100 oct. Rdo req.
Machens (NC)	1 NNW	450	41	
Meramec (Valley Park)	1.5 ESE; riv N	440	30 S2	80 oct. Pole line S.
(N) Neubeiser OLP (St.Louis)(N)	22 NNW; riv N	438	20h	
St. Charles	5.3 NNW, RR N	470	29 S6	80 oct. Poles E, N, NE, SE.
Sterling (St. Louis)	14 SSW; RR E	615	26 S4	80, 91 oct. Obsts surround fld.
Sylvan Beach (Fenton)	2 NNW	442	42 S2	80, 91 oct. Pole line N.
Weiss (Kirkwood)	4 SW	430	15 S4	80 oct. Pole line NE, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) (NC)-Not charted.

OREGON

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Aurora Flight Strip	1.6 NNW; hwy W	196	41h	
Barrett-Schuler (Woodburn)	2.8 WNW, RR E	200	29 S1	73 oct. Pwr line NNE.
Bernard (Beaverton)	1.4 NNW; RR S	188	18 S6	73, 80 oct.
Canby	0.5 NNW	150	17 S1	80 oct. Pwr line NE, SW.
Columbia Co. (Scappoose)	1.2 NE; RR W	55	40h S4	80 oct. Pole line N, NW.
Dwyer Landing Fld.(Portland)	7 SE; RR NW	200	16	Obsts ENE, WSW. Ditch around strip.
Green Acres (Mulino)	1.9 SSW, RR W	269	18 S4	80 oct. No sto. Obst SSE.
Hillsboro	2.4 ENE, RR S	200	41h L5 S6	73,80 oct. No sto.
(A,N) PORTLAND AAB (A)	5 NNE, riv N	19	55h R2 L5 S6	73, 91, 100 oct. JP-1.
R. O. K. (Gresham)	2.2 W, RR S	285	26 S5	73 oct. No sto. Pwr line E, ENE.
Sky Park (Oregon City) (NC)	2.7 SE, RR NW	440	27 S4	80 oct. No sto. Pole line S.
Sportsman Arpk. (Newberg)	1 E; riv SW,RR N	173	23 S2	Ltd 80 oct. Trees NNE.
Troh's Skyport (Portland)	6 E; riv N	250	26 S6	80, 91 oct.
Troutdale	1 NW, RR S	34	46h L3 S6	73, 80 oct.
Portland Birdsdale(Portland)	8.5 E;RR N	220	23 S6	80,91 oct.

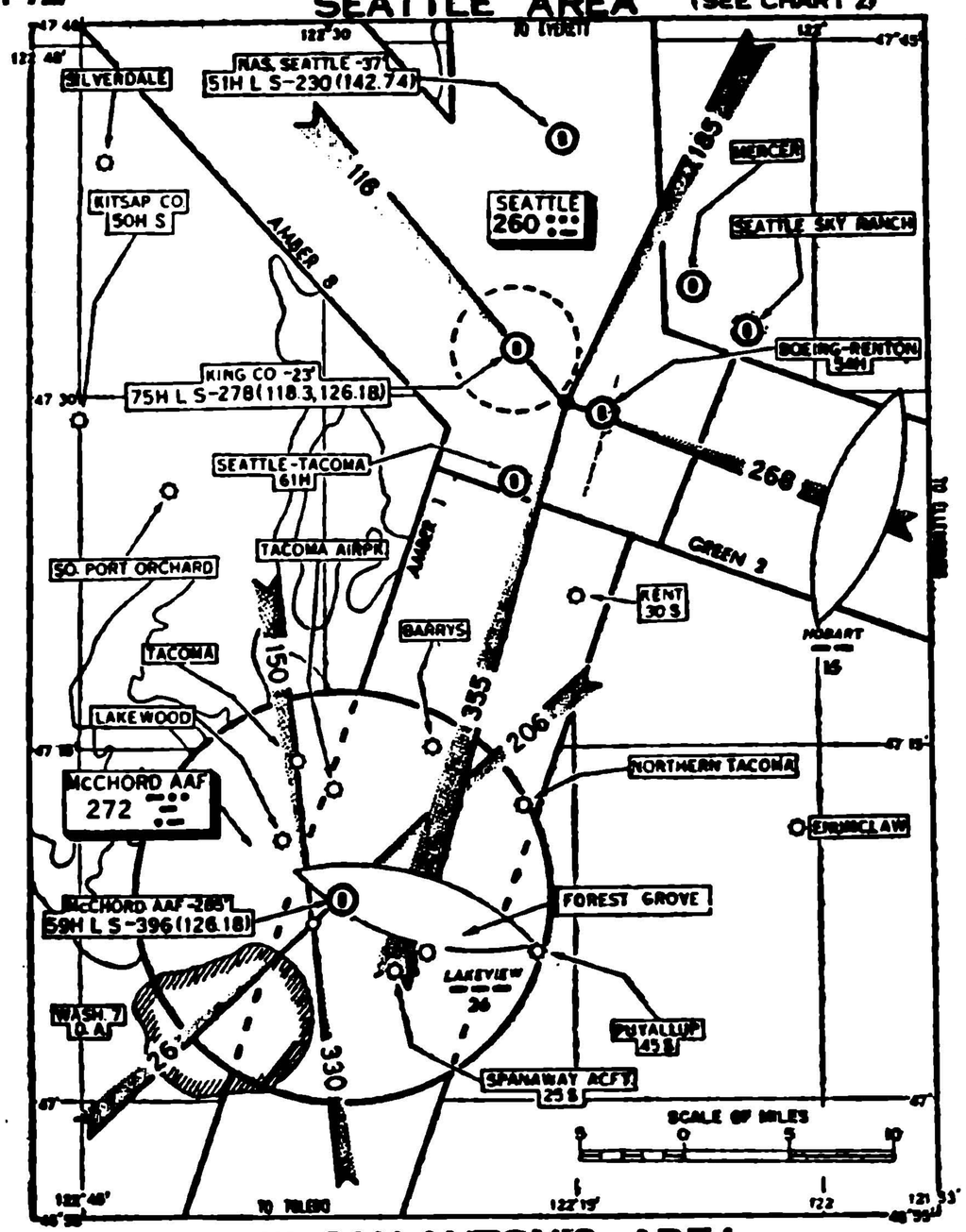
TEXAS

ALAMO (San Antonio)	7.8 N;RR SE	783	55h R2 L5 S2	73,80 oct.
Bexar Co. (San Antonio)	7.1 SSW; rd W	640	32 S6	80, 91 oct. Poles,trees N,NW,W,S.
(A) Brooks (San Antonio)(A)	6.5 SSE; RR W	594	52h R1 L5 S6	73,91,100 oct.
Craigg (Sayers)	1.8 W, hwy,RR N	650	41 S1	80 oct.
Davis (San Antonio)	6.7 N, RR SE	780	16 S1	80 oct.
Hurt (San Antonio)	6.5 WNW; hwy W	680	36 S6	80 oct.
(A) Kelly (San Antonio)(A)	6.8 SW, RR NE	676	75h R2 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEAR. STA.
Kuehler (New Braunfels)	1.7 SE, riv NW	720	18	Pole line NW. Cattle.
Lake (San Antonio)	10 S, RR E	700	23 S2	73 oct.
Leon Valley (San Antonio)	8.6 WNW;hwy E	710	40 S6	80,91 oct.Pwr line N,W, NW.
(A) Martindale(San Antonio)(A)	7.1 E; RR S	660	30h	
Mission (San Antonio)	4.5 S, hwy E	567	23 S6	80 oct. No sto. Pole line NNE.
(A) Randolph (San Antonio)(A)	15.8 ENE,RR NW	752	70h R2 L5 S6	91,100 oct. No sto.
Stinson (San Antonio)	6.2 SSE; RR E	567	49h	
Yates (San Antonio)	13.7 N; hwy W	968	33	
(A) Zuehl No. 6 (A)	0.8 NE; hwy NW	610	30h	

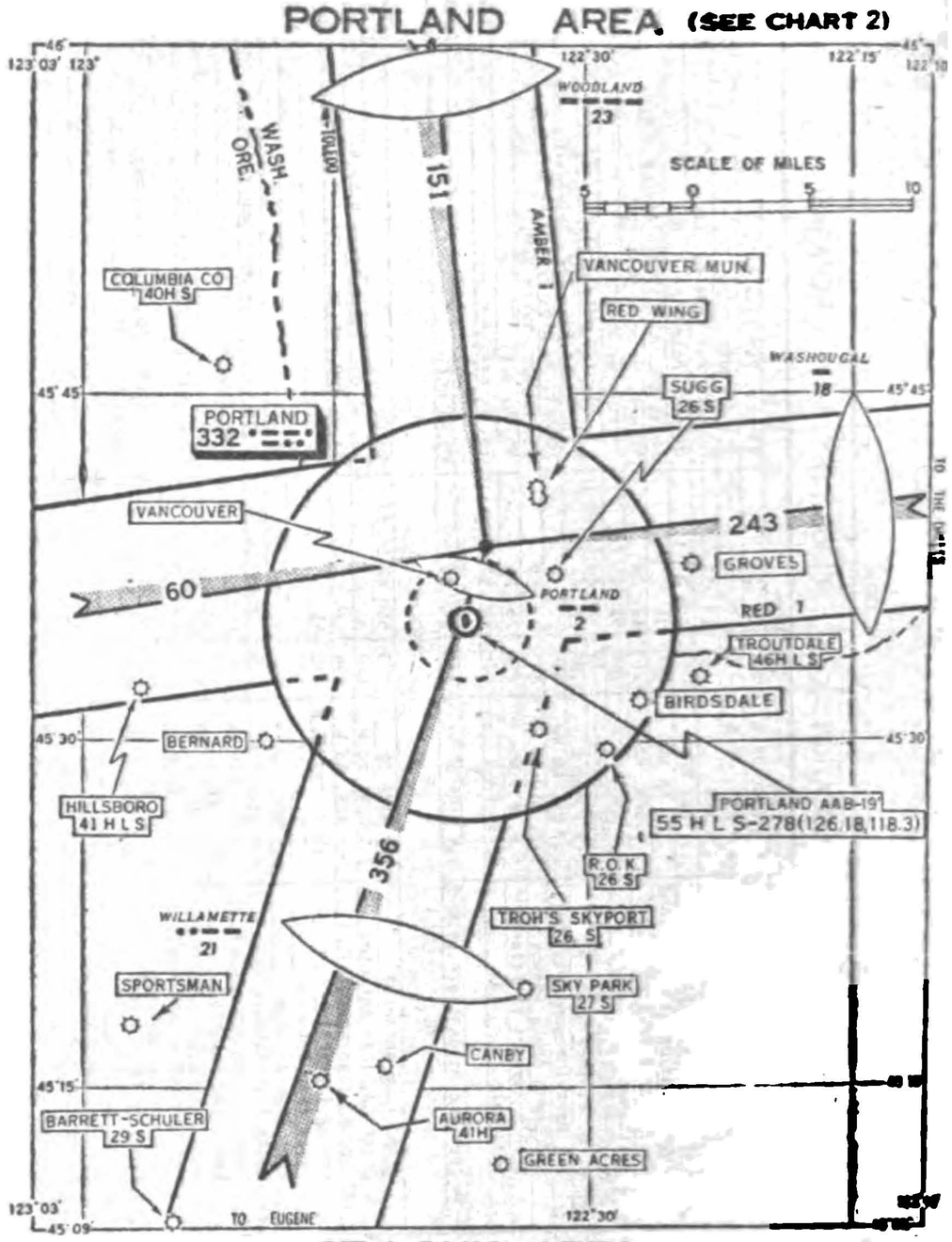
WASHINGTON

Barrys Sky Harbor (Tacoma)	2.3 ENE; riv SW	4	21 S2	Ltd 80 oct. Pole line E.
Boeing-Renton (Renton)	0.9 NW,lake N	32	54h L5	RESTRICTED.All lgts prior req.
Enumclaw	1.5 WSW; hwy E	740	20 S2	Ltd 80 oct. Pwr line E.
Groves (Camas)	2.8 N;hwy E	350	27 S1	Ltd 80 oct. Lake SW.
Kent	1.5 SSW; riv N	30	30 S6	80 oct.
(A) KING CO.-BOEING (Seattle)	6 S, riv SW	23	75h R2 L5 S6	73-100 oct.No sto. ARPT OF ENTRY. FOREIGN CLEARING STATION.
Kitsap Co. (Bremerton)	8 SW; hwy NW	482	50h L5 S6	80,91 oct.No sto. Lgts prior req.
Lakewood (Tacoma)	7.5 SSW;RR E	243	22 S1	80 oct. Trees ENE, WSW.
(A) McChord (Tacoma)(A)	7 SSW;lake SE	285	59h R3 L5 S6	73,91,100 oct.JP-1. FOREIGN CLEARING STN.
Mercer (Bellvue)	4.1 ESE;lake E	345	20 S4	80 oct. Tie-down sto.
Northern Tacoma (Puyallup)	1.3 N; RR N,S	20	19 S6	80 oct. No sto.
Puyallup	6 S; hwy W	520	45 S6	80,91 oct.Rnwy data unverified.
R. C. Sugg (Orchards)	3.6 SSE;hwy S	310	26 S6	80 oct. 6.8 E Vancouver.
Red Wing (Orchards)	1 NE;hwy S	220	13 S1	Ltd 73 oct. 6.5 ENE Vancouver.
(N) Seattle NAS (N)	6.5 NNE;lake E	37	51h R1 L5 S6	91,100 oct.
(N) Seattle-Tacoma (Seattle)	10.5 S,RR E	405	61h	Trees and hills surround fld.
Silverdale	1.9 NW;rd E,S	350	19	Poles S. Emergency only.
Sky Ranch (Walla Walla)	1.3 SW		32	Pwr line W. Data not verified.
South Port Orchard (Port Orchard)	7.5 SSW,lake S	350	19 S4	80 oct. No sto. Trees N, S.
Spanaway Acft Co.(Spanaway)	1.2 SSE,RR S	375	25 S1	80 oct. Pole line S.
Tacoma	4.4 W,hwy SE	369	22 S4	80, 91 oct.
Tacoma Airpark (Tacoma)	2.9 WSW,RR E	250	20 S1	Ltd 80 oct. Sharp drop W edge fld.
Vancouver	1 SE	26	19 S6	Ltd 80 oct. No sto.
Forrest Grove (Spanaway)	1.8 E;RR E	340	22 S6	80 oct.
Vancouver,mun.	6.7 ENE;hwy W	240	26 S1	80 oct.
(N)©Bremerton NAS (N)(NC)	0.5 S	S.L.	Unl S4	Ramp;buoys;haul-out.
(N)©Seattle NAS (N)(NC)	6 NNE	36	300 L S6	87-100 oct. Ramps;all face.

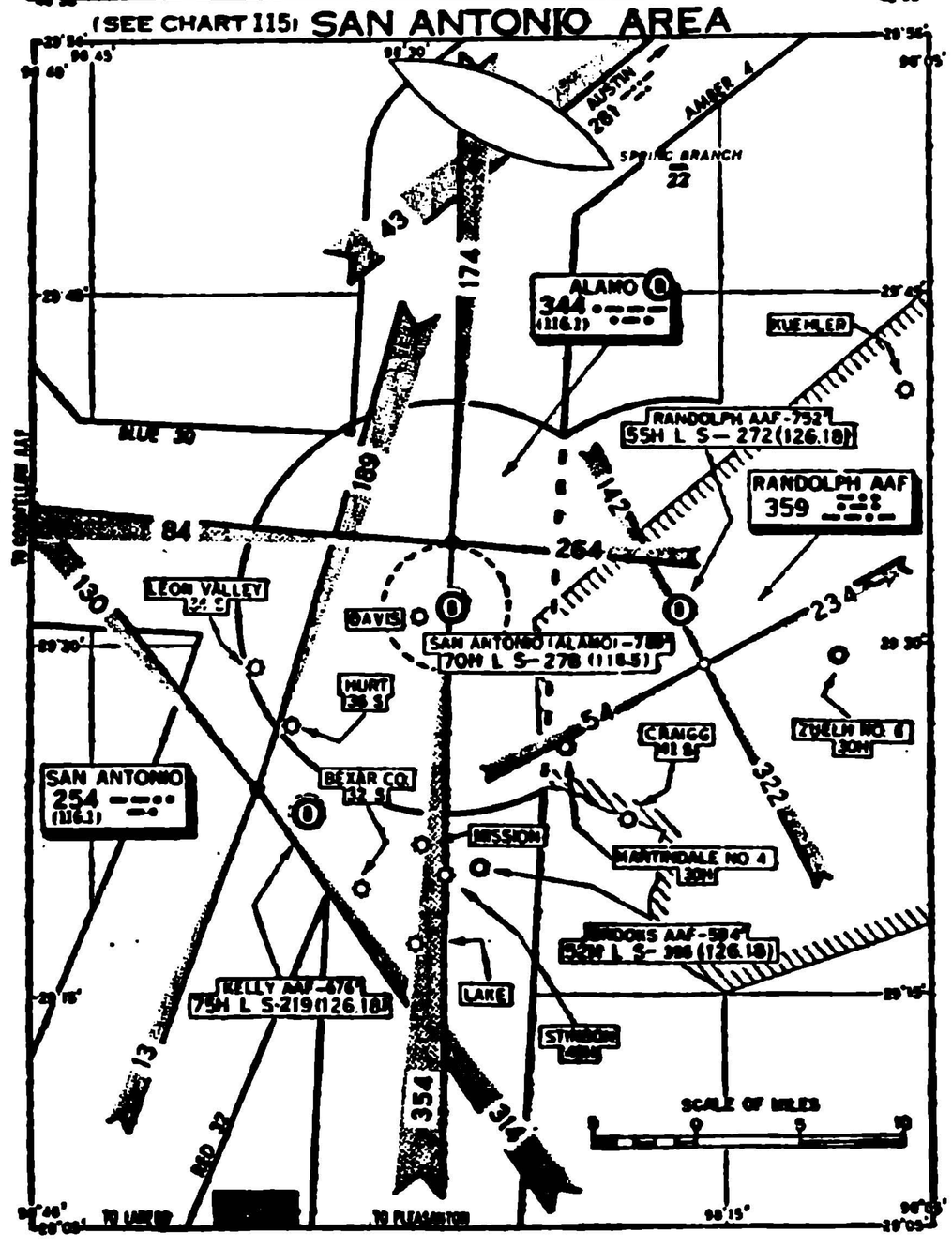
SEATTLE AREA (SEE CHART 2)



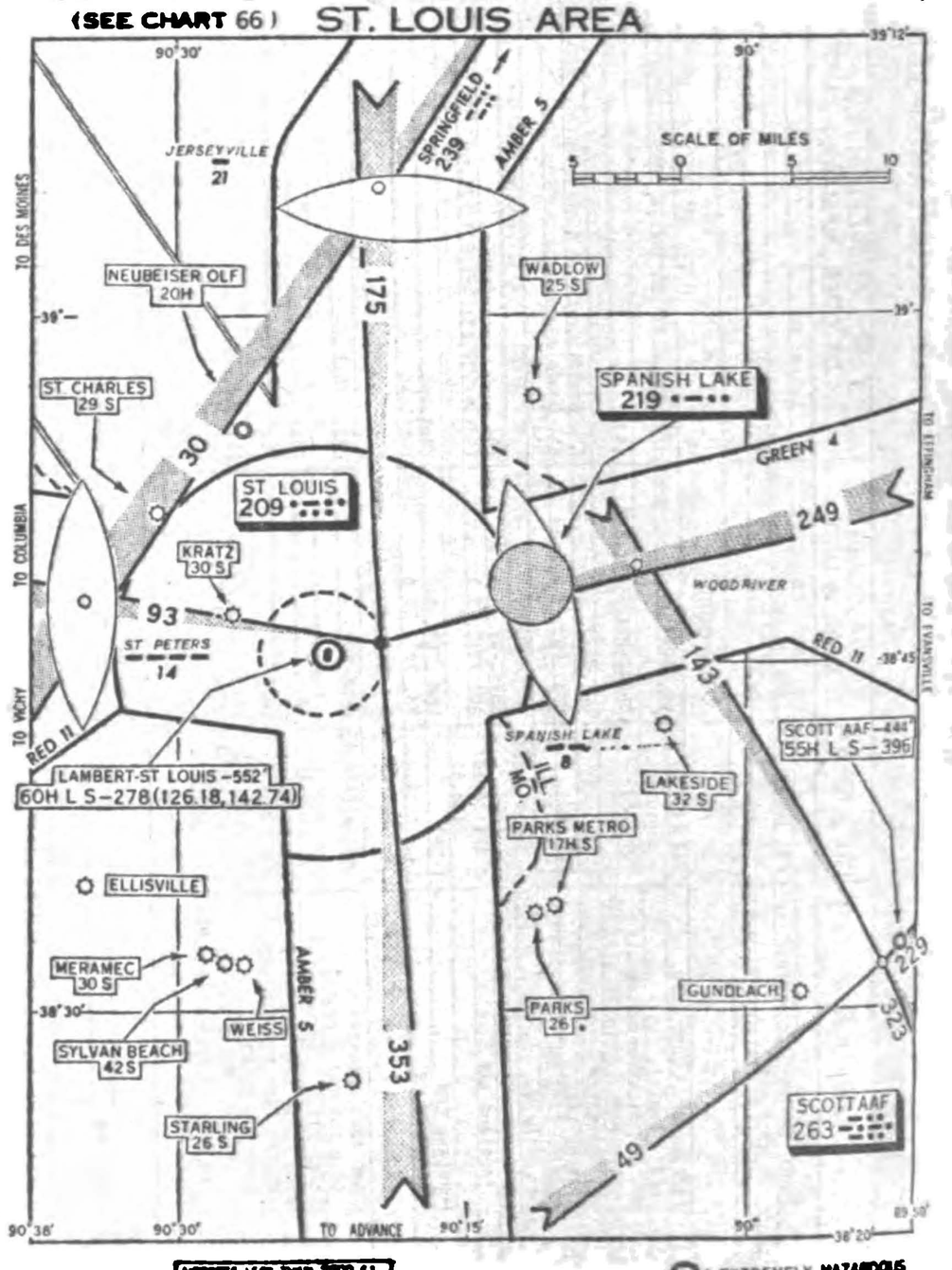
PORTLAND AREA (SEE CHART 2)



(SEE CHART 115) SAN ANTONIO AREA



(SEE CHART 66) ST. LOUIS AREA



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'A' QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS OR AIRPORT BOX

Ⓡ: EXTREMELY HAZARDOUS

Ⓠ: USABLE WITH CAUTION

NOTICES TO AIRMEN

INTRODUCTION

PROCEDURAL STATEMENT: Because all new facilities are immediately spotted on the charts, items covering such new facilities are cited only once in the Notices to Airmen section. Citations covering new or revised radio data are prefixed by one large star "★". Citations covering new or revised airport, danger area, or miscellaneous data are prefixed by two small asterisks "**"

All temporary conditions (field soft, runway under construction, range course out of alignment, etc.) are cited in full until they are no longer in effect. When a citation carries a permanent item and a temporary item, the permanent item is underlined. Parenthetical date at end of item indicates time item was reported.

To conform to chart practice, all facility data are listed in the Notices to Airmen section alphabetically by states and by facility name. Thus, an airport will be found listed alphabetically under its own name rather than under its locale's name. If the airport or radio facility name is other than that of its geographical location, the location is shown in parenthesis after the facility name.

CIVIL FACILITY DATA: Please advise immediately the Office of Aviation Information, Attention A-250, C.A.A. Department of Commerce, Washington 25, D.C., whenever temporary conditions covering civilian airports or navigational aids begin or terminate, data revisions are effected, or flight hazards are erected or removed.

ARMY DATA: Advice covering Air Forces Fields or Air Forces Operations on civilian fields, or AAF Radio Facilities, and Danger or Caution Area activation, as well as requests for approval for the closing of any army airfields to transient military aircraft for a period in excess of 10 days should be directed to: COMMANDING GENERAL, AIR TRANSPORT COMMAND, WASHINGTON 25, D.C. ATTENTION. HEADQUARTERS FLIGHT SERVICES, FLIGHT OPERATIONS. Information to be published will be coordinated and submitted to the C.A.A.

NAVY FACILITY DATA: In accordance with Hydrographic Office Memorandum for Aviators No. 9, July 29, 1946, Hydrographic Office information concerning naval and marine corps air stations and facilities, including changes in field facilities, operation rules, airground communications facilities, instrument approach procedures and navigational aids, should be directed to: The Division of Air Navigation, Hydrographic Office, Washington 25, D.C., for transmittal to the C.A.A. In accordance with Aviation Circular Letter No. 96-46 of June 13, 1946, approval for the closing of any naval or marine corps air station or facility to transient military aircraft for a period in excess of 10 days must be obtained from the Chief of Naval Operations. Also approval is to be obtained from the Chief of Naval Operations before relocation or modification of any aid to air navigation, such as reorientation of radio ranges.

AIRSPACE SUBCOMMITTEE REPLACES I.A.T.C.B.: Effective June 1, 1946, the Air Coordinating Committee Airspace Subcommittee was substituted for the Interdepartmental Air Traffic Control Board. The function of the Airspace Subcommittee is to effect coordination to insure, insofar as possible and practicable, that conflicts in the use of the navigable air space are avoided or reduced and that unnecessary interference with the operation of aviation facilities is eliminated.

SPECIAL NOTICES

POLICY ON ARMY USE OF TEMPORARILY INACTIVE ARMY AIR FIELDS: (1) Municipal airfields which have been used jointly by the Army Air Forces and civil interests and at which Army facilities are temporarily inactive but the civil facilities are still active, may continue to be used by military aircraft. No servicing other than that provided by commercial concerns will be available. Such airfields will be identified herein by the following notice: "Army temp inactive - civil facs." (2) Temporarily inactive Army airfields used exclusively by the Army Air Forces (either owned or leased) or municipal airfields used jointly by the Army Air Forces with civil interests at which both Army and civil facilities are inactive will be available to military aircraft on official business only under written orders of an air force, command or higher authority. Individual orders for each flight rather than blanket authority is desired. Such airfields will be identified herein by the following notice: "Temp inactive - no facs. (See Special Notice re use)". Operation of Air Transport Command hospital evacuation aircraft will not be limited in any respect by above policy. Above policy statement is not to be construed as countermanding any AAF regulations or letters governing command use of municipal airports or Army airfields.

"OFFICIAL BUSINESS" AS APPLIED TO AAF: In view of the numerous requests for clarification of the term "official business" as used in connection with restrictions on use of Army airfields and in connection with restrictions on use of civil fields by military aircraft, the following interpretation is furnished for guidance of AAF clearance and pilot personnel: The term "official business", within the meaning of AAF Regulation 85-2, is interpreted as the necessity for personnel aboard an aircraft to contact personnel, units or organizations at or near the airfield selected for landing for the purpose of conducting transactions in the service of, and in the interest of, the United States Government. This does not include the use of any airfield by transient aircraft for the purpose of obtaining aircraft clearance, service, or other items attendant with itinerant operations. Cross country flights for the purpose of maintaining flying proficiency are not considered to be official business within the meaning of this regulation.

AIRPORTS AVAILABLE FOR USE BY MILITARY AIRCRAFT: The attention of Army clearance personnel and of Army pilots is invited to provisions of Section III of Army Air Forces Regulation 85-2, which states in part: "The use by Army aircraft of private airports which have not been leased, purchased, or otherwise acquired by the Federal Government is unauthorized except in case of emergency or for official visits authorized by an Air Force or Command" This Regulation further states "AAF transient itinerant aircraft may utilize. (a) Government or DLA (development landing area) type airports, subject only to such restrictions as may be listed from time to time in Weekly Notice to Airmen . . . (b) Private airports when legal permits for their limited use are procured by and filed with the real estate agency of the War Department . . ." Reference to the AAF Installations Directory" and to the Directory of Airports Section as well as the Notices to Airmen section of this publication should be made in case of doubt as to the proper use of fields. In the Directory of Airports Section, all AAF installations are designated by the prefix (A), Navy by (N), and DLA Field by (P):

RESTRICTION ON C-45, AT-7, AT-11, F-2, AND CQ-3 ARMY AIRCRAFT: Upon compliance with following items and notation in Form 1B of each aircraft certifying completion, above types of aircraft may be cleared for IFR flights: (a) Replace all gyro units which on flight check spill either gyro at less than 45°; (b) Compliance with T.O. 01-90C-9; (c) Com-

✓ Indicates new or revised Special Notices.

pliance with applicable modifications on auto-pilots prescribed by T.O.'s 01-90-50, 01-90-54, 01-90-52, 01-90-56; (d) Modify receiver dials so that index is turned 90° toward pilot as described in item 7, page 6, T.O. 00-65-14; (e) Periodic inspections prescribed in T.O.05-45BA-2 for Jack and Heintz instruments and T.O. 05-45AB-2 for sperry instruments.

RESTRICTIONS ON AAF HELICOPTERS: YR-5A, YR-5D, R-5A, R-5D (except as indicated below*) and YR-5E helicopters are grounded and will not be flown.

*R-5D helicopters No. 43-46643 and subsequent have been modified by the contractor and may be released for flight.

RESTRICTION ON FLIGHT OF AAF AIRCRAFT IN NEW YORK CITY AREA: Effective immediately no AAF acft except those on scheduled transport operations will be cleared to New York City Area unless point of first intended landing is Mitchel Fld, Hempstead, L.I., N.Y. When instrument conditions prevail in New York City Area, no Army acft except those on scheduled transport operations will land at or take off from other than Mitchel Field. When contact conditions prevail in New York City Area, acft which have been cleared for Mitchel Field but which desire to land at other authorized fields in New York City Area will, when approaching New York City Area, obtain clearance from New York Flight Service thru normal communications means. For purposes of these instructions, New York City Area is defined as a circle 50 miles in diameter centered on southern tip of Manhattan Island. Contact weather New York Area will be considered to be 2000 feet ceiling 3 miles visibility both day and night. When cloud conditions exist below 2000 feet flight conditions will be considered IFR.

MILITARY AND NAVAL LANDINGS IN NEWFOUNDLAND: All military and naval aircraft landing in Newfoundland should use Harmon Field at Stephenville or naval operating base at Argentia. Gander has very limited military facilities and is reserved for commercial and weather diverted military aircraft.

CIVILIAN USAGE OF MILITARY FIELDS: Army and Navy fields are open to civilian fliers only in emergency or with prior permission of the commanding officers thereof.

STANDARD NAVY GROUND CONTROL APPROACH FREQUENCY ASSIGNMENTS: Allocations of frequencies, both HF and VHF, for Navy GCA use have been coordinated with the AAF. Universal frequencies allocated primarily for Navy GCA operational use are as follows: HF Communications - 3475 kcs, 4890 kcs, 6640 kcs, VHF Communications - 134.64 mcs, 142.02 mcs, 143.64 mcs. As a safety precaution, Navy GCA Units will also be prepared to control aircraft on 140.58 mcs, the Navy emergency frequency. To provide a means whereby Navy aircraft may receive assistance from Army GCA Units and vice-versa, the following agreement will govern: (a) Army GCA Units will at all times be prepared to control Navy Aircraft on 140.58 mcs. (b) Navy GCA Units will at all times be prepared to control AAF aircraft on 131.40 mcs. It is the responsibility of the pilot desiring GCA assistance to establish communication with the appropriate control tower for preliminary approach instructions. The pilot will then be instructed as to the proper frequency for contacting the GCA Unit. Navy GCA Operational Units are located as follows: Whidbey Island NAS, Wash.; Charlestown NAAS, R.I.; Oakland, NAS, Calif.; Camp Kearney NAAS, Calif.; Seattle NAS, Wash.; Olathe NAS, Kans.; Oceana NAAS, Va.; Patuxent River NAS, Md.

ARMY FOREIGN CLEARING STATIONS: Under the authority of AAF Regulation 61-4, Army aircraft with destinations listed below or returning therefrom to the United States will clear through the stations indicated: AFRICA - Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. ALASKA - McChord Field, Wash.; Great Falls AAF, Mont.; or Boeing Field, Wash. BERMUDA - Mitchel Field, N.Y.; Morrison Fld, Fla.; Washington National Airport, D.C.; or Westover Fld, Mass. CANADA: Great Falls AAF, Mont.; McChord Fld, Wash.; Washington National Airport, D.C.; Boeing Field, Wash.; Selfridge Fld, Mich.; or Westover Fld, Mass. CANAL ZONE, CENTRAL AMERICA; MEXICO, AND SOUTH AMERICA - March Field, Calif.; Kelly Fld, Texas; or Morrison Field, Fla. CARIBBEAN - Morrison Fld, Fla ENGLAND, GREENLAND, ICELAND, NOVA SCOTIA, NEWFOUNDLAND, AND NORTH IRELAND - Washington National Airport, D.C., and Westover Fld, Mass. (Note: Selfridge Field also will clear for Nova Scotia and Newfoundland). HAWAII - Fairfield-Suisun AAF, Calif.

LORAN DATA: Loran is a long range electronic navigational aid utilizing pulse techniques. It provides accurate fixes for the user within one per cent of his distance from the stations. Loran service is provided continuously twenty-four hours a day. Loran operates on fixed frequencies of 1750,1850, and 1950 kcs. To use Loran it is required that a Loran receiver-indicator be employed and that suitable charts and tables be available to the navigator.

The following is a list of Coast Guard and Canadian Loran rates presently in operation: Atlantic: 1L0, 1L1, 1L2, 1L3, 1L4, 1L7, 1H1, 1H2, West Coast United States: 2H4, 2H5, 2H2; Aleutian Area: 1L9, 1L1, 1L2: Central and Western Pacific: 2L0, 2L1, 2L2, 2L3, 4H2, 4H3, 4H4, 4H5, 1L6, 1L7 Information regarding Loran coverages, rates, frequency, etc., throughout the world is contained in the Catalog of Loran charts and Service Areas, Hydrographic Office Publication No. 1-L. This information may be obtained from Hydrographic Office agents located in various cities in the United States or from the Hydrographic Office, Washington 25, D.C., at a cost of 30¢ Complete Loran tables are contained in Hydrographic Office Publication Series No. 221, which can be obtained from the same sources at a cost of $3.00 per volume. Loran charts may be similarly obtained. Hydrographic Office Circular No. 3 and the Hydrographic Bulletin (issued weekly) give a list of these agents mentioned above and may be obtained without charge from the Hydrographic Office or any Branch Hydrographic Office. Changes in Loran service are broadcast in Hydrolants and Hydropacs, and as local broadcasts, the stations, frequencies, and schedules being listed in the first Hydrographic Bulletin issued each month. Inquiries of an operation nature regarding Loran may be addressed to the Commandant (OAN), U.S. Coast Guard, 1300 E Street, N.W., Washington, D.C.

FOREIGN ENTRY PROCEDURES: Every United States citizen traveling abroad, except to Canada, Mexico, Alaska, Hawaii, Puerto Rico, and the Virgin Islands, requires a passport. The following procedures are necessary in order to gain entry, with intention to land, in Canada and Mexico:

Canada (1) All departures from the United States must be made from Airports of Entry. (These are identified in the remarks column of the Airport Directory data in the AIRMAN'S GUIDE). (2) If landing is to be made at a designated Canadian Airport of Entry, notice should be telephoned or telegraphed to the collector of customs at the predetermined point of entry when clearing U.S. Customs (. (If entry is planned at a field other than a customs airport, arrangements should be made with the Secretary, Customs Division, Department of National Revenue, Ottawa, at least 10 days in advance. (4) Pilots and aircraft must be properly certificated and general observance of Canadian air regulations is required. (5) The following is a list of all Canadian customs Airports of Entry: Whitehorse, Y.T.; Vancouver, B.C.; Calgary, Alta.; Lethbridge, Alta.; Moose Jaw, Sask.; Regina, Sask.; Winnipeg, Man.; Ottawa, Ont.; Toronto, Ont. (Island or Malton); Hamilton, Ont.; Windsor, Ont.; Montreal, P.Q. (Dorval); Fredericton, N.B.; St. John, N.B.

Mexico: Applications for permits may be filed with the nearest Mexican consul who charges a fee of $4.00, or directly with the Department of Civil Aeronautics, Mexico City, Mexico, without charge. The permit will be sent directly to the Airport of Entry named in the application, unless the applicant specifically requests that it be sent to his home address. If entry is to be made from Brownsville, Tex., permission may be received from Representative of Mexican Ministry of Communication and Public Works, Department of Civil Aeronautics, Rio Grande Valley International Airport, Brownsville, Texas.

CUSTOMS REPORTS: In making flights TO or FROM a foreign country, civilian flyers are required to report to a customs officer. If they don't report, they are subject to a civil penalty of $500 for each violation, and any aircraft used in connection with any such violation is subject to seizure and forfeiture, as provided for in the customs laws. On flights from foreign territory, the first landing in the United States is required to be made at an airport of entry, unless permission to land elsewhere than at an airport of entry is granted by the Commissioner of Customs, Washington 25, D.C. Consult the nearest customs officer before making foreign flights.

U.S. CIVIL AIRCRAFT CLEARANCE FOR FOREIGN COUNTRIES: Although the CAA does not require special permission for the flight of U.S. aircraft abroad or for the delivery of aircraft exported to foreign countries all aircraft must be registered and certificated as to airworthiness and pilots must hold appropriate U.S. pilot certificates. The single exception to the above is: Special permission must be obtained from the Director, Aircraft and Components Service, CAA, Washington, D.C. for any flight into or through the Panama Canal Zone. In general, permission must be secured from foreign countries for the conduct of scheduled or non-scheduled operations from the U.S. Specific information may be secured from the Aviation Division, State Department. All air carriers must secure operating certificates from the CAA and their operations must be in conformance with these certificates. Although there are no Federal taxes on the exportation of aircraft from the U.S., it is mandatory that a license for such export be obtained from the State Department.

CANADIAN FLIGHT INFORMATION: Arrangements are being made by the Canadian Government to supply all U.S. Airports of Entry with flight information covering all Canadian airports and navigational facilities. In like manner, the "Airman's Guide" is being made available to Canadian pilots at Canadian Airports of Entry.

CANADIAN REGULATIONS FOR CFR FLIGHTS: (a) It is compulsory for pilots desiring to conduct a CFR flight to file a flight plan unless the flight will be made within a radius of 25 miles of the point of departure. (b) Arrival messages must be filed by pilot on all such CFR flights.

CANADIAN INSTRUMENT FLIGHT RULE FLIGHT: Pilots are cautioned to conform to the requirements of CAR 60.2 where flight is proposed to be conducted under Instrument Flight Rules from the United States into air traffic control areas designated in Canada. Failure to adhere to these regulations may result in detention of pilots concerned by Canadian Authorities.

PANAMA CANAL ZONE, FLIGHT INTO: Prior to take-off from Miami, New Orleans, or Brownsville, or other port of embarkation on any aircraft flight into, through, or out of the 200 mile intermediate area blanketing the Canal Zone, commanders of military aircraft will secure a Fighter Command clearance by filing a flight plan. With a view to the safe guarding and protection of their equipment and personnel, operators of all other aircraft should follow the same procedure. Responsibility for this notification of flight plans is delegated to the clearance authority at the point of departure.

SAN JUAN, P.R., PRE FLIGHT CLEARANCES: The Isla Grande Airport at San Juan, Puerto Rico is a part of the U.S. NAS, San Juan. Commercial air carriers may not operate at this field without receiving specific authorization from the Chief of Naval Operations, Washington, D C. The Commanding Officer NAS San Juan may grant permission for one or two isolated landings. In any case proper authority must be obtained prior to landing at San Juan. Privately owned aircraft in a ferry status must obtain permission from the commanding officer before landing at Isla Grande Airport.

PRE FLIGHT SERVICE: Pilots desiring to file flight plans are requested to do so with any CAA Airway Communication Station by personally visiting the station or by telephone. Radio should be used for filing flight plans only as a last resort. Pilots are urged to visit communications station to obtain authentic flight information and assistance in planning their flights. Personnel at these stations are trained to render flight planning assistance. An objective of CAA pre flight service is to encourage pilots to familiarize themselves with flight conditions prior to commencing cross country flight.

TRAFFIC CLEARANCES: In order to prevent delay to aircraft operating in contact flight rule weather conditions and yet ensure adequate separation when and if instrument flight rule weather conditions are encountered, traffic clearances to pilots filing instrument flight rule (IFR) flight plans may amend such flight plans by requiring flight in accordance with contact flight rules (CFR) for all or a portion of the flight. A traffic clearance will speciy the approved altitude followed by the abbreviation "CFR". Upon receipt of such clearance, the pilot will be responsible for avoiding other aircraft while operating in CFR weather conditions and for securing an amended clearance at the specified alt before IFR weather conditions are encountered. The pilot must remain in CFR weather conditions until the amended clearance is received. For efficient operation, the use of this procedure can only be determined by Air Traffic Control. Pilots, therefore, should not file "altitude, CFR" in any flight plan; "altitude CFR" is to be used only in a traffic clearance issued by Air Traffic Control.

DANGER AND CAUTION AREAS: A limited number of established Danger and Caution Areas were discontinued on June 1, 1946, in accordance with IATCB Meeting No.711, dated February 6, 1946, and a number of others broken up into smaller areas with redefined boundaries. The areas as shown on the Flight Planning Charts are those in effect today.

AIRPORT APPROACH ZONES AND AIRPORT TRAFFIC ZONES CFR MINIMA: Part 60 specifies that CFR traffic within Airport Traffic Zones or Airport Approach Zones must maintain 500' vertical and 2000' horizontal separation from the clouds unless given traffic clearance by the control tower or control center concerned. Even under such clearance CFR flights must remain clear of clouds. These airport traffic zones and airport approach zones are indicated on the Flight Planning Charts of the Airman's Guide, and all recently revised Coast and Geodetic Survey Aeronautical Charts. In the interest of safety, CFR flights must maintain the 500 foot and 2000 foot minima specified above while in these circular charted zones. (See page 15 of this publication for air traffic control procedures and weather minima).

CANADIAN AIRWAY DESIGNATIONS: Information Circular No. 0/24/45, was amended to include the following: 4.01 Red Airway No. 7. 4.010 From the Cowley, Alta. range station to the intersection of the N leg of Cowley, Alta., and the S leg of Calgary, Alta. From the Calgary, Alta. range station, via the intersection of the E leg of Calgary, Alta., and the NW leg of Medicine Hat, Alta., to Medicine Hat, Alta. range station. 5.7 Blue Airway No. 7. 5.70 From London, Ont. range station, via the SE course of London, Ont., to the intersection of the SE course of London, Ont., and the W course of Clear Creek, Ont. (The Toronto ATC Centre assumed control on August 1, 1946).

A.T.C. AREA ADDITION: Effective August 18, 1946, the Salt Lake City Center assumed control of all of Red Airway No. 54. (This corrects Airgi, Vol. 1, No. 11).

BOUNDARY CHANGE BETWEEN KANSAS CITY AND ST. LOUIS AIRWAY TRAFFIC CONTROL CENTERS: Effective October 1, 1946, the boundary between these two centers on Amber Airway No. 4 will be changed to 25 miles S of Chanute, Kans Range Station; on Blue Airway No. 22 to 25 miles SE of the Portland intersection (northwest Tulsa and south Wichita).

EL PASO AIRWAY TRAFFIC CONTROL CENTER COMMISSIONING: This new center will be commissioned at 0001 MST, Oct. 1, 1946, with the following boundaries: Green Airway 5,from 25 miles NW of Tucson to 25 miles W of Abilene; Amber Airway 3, from 25 miles N of Engle to intersection with Green Airway 5; Blue Airway 30, from Big Spring to 25 miles SE; Red Airway 51 from El Paso to 25 miles SE.

NEW PRIVATE FLIER FREQUENCIES: Effective Jan. 1, 1947, all CAA communication stations will guard 122.1 mcs and CAA operated towers will guard 122.5 mcs. in addition to those now guarded. These are the new frequencies assigned for use by the private fliers for air/ground communications..

GUARDING OF 3117.5 KCS. BY CAA AIRWAY COMMUNICATIONS STATIONS: Effective Oct. 1, 1946, all airway communications stations located at points also served by CAA airport traffic control towers will discontinue continuous listening watches on 3117.5 kcs. Thereafter, communications stations at these locations will establish watches on 3117.5 kcs. only on a "request" basis.

COMPASS LOCATOR DESCRIPTION: Compass locators are low powered non-directional facilities operating in the 200-415 kc band. They are installed near airports to make it easier for pilots to make instrument approaches. When holding is required, they also help the pilot follow a more precise holding pattern. Compass locators, however, should not be depended upon as long range navigational aids since they are rarely useful at distances of over 15 or 20 miles.

OPERATION OF SEAPLANES ON THE NEW YORK STATE CANAL SYSTEM: An official complaint has been received from the State of New York, Department of Public Works, that the New York State Canal Channel is being used for the taking off and landing of aircraft. This channel is very narrow and has numerous curves. The taking off and landing of aircraft on this channel, therefore, is dangerous and presents a hazard to canal traffic and small boats. All airmen are cautioned that such activities may constitute careless or reckless operation of aircraft.

FEDERAL AIRPORT ACT HEARINGS AND PROCEDURES: All details of the Civil Aeronautics Administration's rules and regulations for use of federal money in arpt construction, will be open for duscussion the week of October 28, 1946. Those invited to the hearing are U.S.Conference of Mayors,American Mun.Association, Nat'l Institute of Mun.Law Officers,Council of State Govts., and the National Association of State Aviation Officials. Others, of course, may present their views, and the CAA will welcome briefs and memorandums submitted not later than November 8, 1946. Forms are now in the CAA's field offices for preliminary project requests. These are important to the CAA not only in planning its first year's work, but also in preparing the National Airport Plan, required by the act. Once a project is tentatively selected, formal applications must include the sponsor's complete plans and specifications for the airport in question. The sponsor's assurance agreement, required in the tentative rules and regulations, lists all the responsibilities undertaken by a municipality. The provision that the federal funds be used to pay 25% of the cost of land brings up a number of rules regarding appraisal title guarantee, etc. Communities also are reminded that federal money may be requested to pay for projects and planning that have been initiated since the law was signed, May 13, 1946. The proposed rules and regulations, published in toto in the Federal Register, can be obtained from the Superintendent of Documents, Washington 25, D. C., for 15¢, for study prior to the public hearings in October.

SURPLUS ARMY AIRFIELDS: Following fields have been declared surplus to War Department requirments and there are no longer any Army operations on these fields: Alexandria AAF, La.; Aloe AAF, Tex.; General Mitchell Field, Milwaukee, Wis.; Blythe AAF, Calif.; Blytheville AAF, Ark; Carlisle Field #1, Stuttgart, Ark.; Cooter Field #4, Blytheville, Ark.; Courtland AAF, Ala.; Garden City Field #3, Kans.; Great Bend AAF, Kans.; Greenville AAF, Miss.; Greenwood AAF, Miss.; Greenwood Mun. Airport, Miss.; Hazen Field #2, Stuttgart, Ark.; Lambert Field-St. Louis Airport, St. Louis, Mo.; Liberal AAF, Kans Lincoln AAF, Nebr.; Manila Field #2, Blytheville, Ark.; Palm Springs AAF, Calif.; Prairieville Field #5, Stuttgart, Ark.; Pratt AAF, Kans.; Steele Field #1, Blytheville, Ark.; Stuttgart AAF, Ark.; Sturgis AAF, Ky.; Tifton Airport #4, Georgia.

AERONAUTICAL CHART AND PUBLICATION CORRECTIONS: (a) Correct the illustration on page 13 of ANC-IFR INSTRUMENT FLIGHT RULE TRAFFIC so that the holding pattern indicates lateral separation by following the N edge of the range course W-bound and the S edge E-bound.

(b) Correct Altoona, Pa., Instrument Approach Chart, AL-100, dated April 2, 1946, by deleting rnwy contact lgts citation, relocating wind tee to NE corner of rnwy intersection, and changing elevation to 1495 feet.

(c) Correct Salina and Wichita Sectional Aeronautical Charts, both dated March 5, 1946, by showing correct frequency for Cassoday, Kans. Radio Range as 239 kcs. instead of 278 kcs. Albuquerque Sectional Aeronautical Chart, by showing Site 32, El Paso-Pueblo Airway as having a beacon without course lights.

(d) Correct WAC 360, dated April 2, 1946, by showing correct frequency for Cassoday, Kans., radio range as 239 kcs. instead [illegible] kcs.

ing for Vistorville AAF. 08-15-1, of August 15, 1946, page 66, by showing fuel-
hours of operation of control tower as continuous. and page 68 by showing the
1946, page 4, by changing under 910 kcs. "KAAL", Salt Lake City, Utah, to
"KALL". Page 11, by changing under Salt Lake City "KAAL" to "KALL". The
height of tower for the above station is 278', hours of operation 0600 - 2400.

WEATHER REPORTING SERVICE

Weather Reporting Station	Type of Station		Lat. Long.	Elev.	Effective Date
Tuskegee, Ala. (AAF)	Supple.Wea.	Closed			
Valdosta, Ga.(Moody Fld)	Supple.Wea.	Opened	N30°58' W83°12'	226'	Approx.9/1/46
Merced, Calif. (Mun. Airport)	Supple.Wea.	Opened	N37°15' W120°31'	152'	8/1/46
Modesto, Calif. (Mun. Airport)	Supple.Wea.	Opened	N37°37' W120°58'	100'	8/1/46
Stockton, Calif.(AAB)	Supple.Wea.	Opened			8/1/46

TELETYPE NOTAMS: Throughout the year climatic conditions (snow storms, floods, etc.) render many fields temporarily unusable or unsafe. In addition, there are intermittent maintenance operations in progress on many fields. Radio facilities suffer temporary power failures or course misalignments, and lighting facilities are temporarily inoperative. Because these temporary conditions cannot be given immediate coverage in the "Airman's Guide", full cognizance must be taken of Teletype Notam service which gives the desired coverage on any facility or field at which teletype transmitting stations are based. Cross-country pilots, accordingly, should consult these Teletype Notams for latest available data on air navigation aids. These teletype notams are posted in CAA Communications Stations and in all Army Air Field and Naval Air Station Operations Offices having teletype drops.

N. B.

AIRPORT TRAFFIC CONTROL PROCEDURES: (a) Planes with 2-way radio should establish communication with control tower when 15 miles from the airport of destination and before taxiing or taking off. (b) Planes without receivers, when approaching tower-controlled fields and before taxiing and taking off, should be on the alert for and be guided by light gun signals. (See AAF Regulation 100-4, dated March 4, 1944, and CAR Digest or Manual 60). (c) Flashing tetrahedron lights, as well as the daylight operation of rotating beacons coupled with flashing red code lights, indicate suspension of CFR traffic.

AIR NAVIGATION AID DATA

All radio facilities except towers are CAA facilities unless otherwise cited. All towers are listed by operating agency. All range bearings are magnetic inbearings. All fan markers and station location markers operate on 75 mcs. All radio facilities operate continuously unless otherwise specified.

LEGEND

** - New or revised airport, danger areas or miscellaneous data to be inscribed on charts or added to records.

★ - New or revised radio data to be inscribed on charts or added to records.

ALABAMA

ANNISTON AAF-Temp inactive-no facs. (See Special Notice re use)

BIRMINGHAM ARPT-Closed to civil. acft not equipped with operating rcvr. No landings on sodded areas. Ctn ngts or under IFR, plant S of fld has long taxi and parking strips resembling rnwys. No svcg mil acft 2200 to 0600. No maintenance. Tetrahedron uncontrollable. (9-6)

★BROOKLEY AAF (MOBILE)-RADIO: AACS, ground to air stn discont guarding 2862, 4890 kcs. (9-6). FLD: Soft-use rnwys, taxi strips only. No 91 oct.(9-9)

CAMP SIBERT AAF (ATTALLA)-CLOSED TO ALL ACFT.

CENTRE ARPT-N/S strip not mntnd. E/W strip rough. Tlfo lines E end. (4-9)

CHASTAIN'S ARPT (PRICHART)-E/W strip under const, mrkd. (7-22)

COLUMBIANA ARPT-NE/SW strip unsafe. High grass S 500' N/S strip. (4-9)

★CRAIG FIELD (SELMA)-RADIO: Army range and twr now operate cont. (9-9)Army range temp unreliable. FLD: Twr obst lgts inop. No maintenance or RON facs. Bndry and N/S rnwy lgts inop. (9-9)

**DANNELLY FLD (MONTGOMERY)-Correct lctn: 7-1/2 mi SW. Elev 219'. (Birmingham chart) (6-8). NE taxi strip closed (Parked acft). (8-12)

**DOTHAN-RADIO: Sept 5, VHF voice fac comm at communications stn, transmits on and guards 116.1 mcs cont. Stn class: SBRAZ-VDT.

GREENVILLE ARPT-SITE 24, NEW ORLEANS-ATLANTA-E 400' E/W rnwy unsafe (high grass). (9-2)

GUNTER FIELD (MONTGOMERY)-RADIO: Army twr temp suspended. (5-16). FLD: Temp inactive-no facs. (See Special Notice re use.) Use rnwys only. Sod areas adj rnwys and taxi strips soft.

HARTSELLE ARPT-N 900' W side avail. emerg landings, bal fld unusable. (3-30)

MAXWELL FIELD (MONTGOMERY)-At ngt or under IFR conditions large depot 1 mi S looks like arpt and lgts give impression of parallel rnwys. NE/SW, NW/SE rnwys closed (const). Equip. on fld. (6-18)

MIDDLETON FLD EVERGREEN)-Rnwy lgts inop. (7-18)

MUSCLE SHOALS ARPT-Fuel avail. Civil. acft only. (8-1)

NAPIER FLD (DOTHAN)-Avail. civil. acft in emerg only. (8-6)

OZARK AAF-Temp inactive-no facs. (See Special Notice re use.)

PRYOR FLD (DECATUR)-Mun. opers and acft sto depot. No collect calls or telegrams accepted by sto depot. (6-22)

TUSKEGEE AAF-Temp inactive-no facs. (See Special Notice re use.) N/S, E/W rnwys closed at N-S/E-W intersections; open for taxiing and emerg only. (7-18)

TUSKEGEE INSTITUTE FLD NO. 1 (TUSKEGEE)-Soft in spots, mrkd. (1-21)

ARIZONA

ANDERSON MESA (Site 44, Los Angeles-Amarillo)-On or about Oct 1, site consisting of 24" rot. bcn and course lgts atop 51' twr flash. char "4" (. . . .) will be comm 36.2 mi SE Flagstaff, lat 34-56-50, long. 111-17-50. Elev 7100'. (9-11)

AQUARIUS CLIFFS (Site 32, Los Angeles-Amarillo)-On or about Oct 1, bcn site consisting of 24" rot. bcn and course lgts atop 51' twr flash. char "2" (. . -) will be comm 68.4 mi SSE Kingman, lat 34-47-25, long. 113-25-00. Elev 5612'. (9-4)

ASHFORK (Site 36A, Los Angeles-Amarillo)-Rough. (5-1)

★COCHISE-RADIO: Soon NW course will be realigned to 164°. (8-29) Sept 14. Attention signal comm.

ARIZONA-Continued

CONNELL MOUNTAIN (Site 34, Los Angeles-Amarillo)-On or about Oct 1, site consisting of 24" rot. bcn and course lgts flash. char "4" (. . . .) will be comm 49 mi NNW Prescott, lat 34-45-40, long. 112-57-30. Elev 6425'. (9-4)
COOLIDGE AAF-Temp inactive-no facs. (See Special Notice re use).
★DAVIS MONTHAN FLD (TUCSON)-RADIO: CAA twr now guards 3105,4495,6210 kcs, 116.1,126.18,118.3,131.9 mcs. (9-12) FLD: E fld closed; acft parked on rnwys. (8-29)
DEEP LAKE (Site 54A, Los Angeles-Amarillo)-E end E/W, N end N/S strips rough with soft areas due wind erosion, soft sand, mrkd. (7-12)
DOUGLAS AAF-Temp inactive-no facs. (See Special Notice re use).
••DOWNTOWN ARPT (TUCSON)-New fld. 1-2/5 mi S; RR SW. Lat 32-11-30, long. 110-57. Elev 2400'. 2 strips: 3400 x 275' WNW/ESE, 2400 x 75' N/S. Poles N. 80,91 oct, sto. (Phoenix chart). (6-29).
ECHEVERRIA FLD (WICKENBURG)-Use rnwys only (parked acft)
ERNEST A. LOVE ARPT (PRESCOTT)-Use wind tee SW of apron. (6-20)
FALCON FLD (MESA)-Closed to trans acft-no facs. (9-19)
FREDONIA ARPT-High weeds, cattle on strips. (9-3)
GILA BEND AAF-Tetrahedron inop. (8-26)
GRANITE PEAK (Site 29, Los Angeles-Amarillo)-On or about Oct 1, site consisting of 24" rot. bcn and course lgts flash. char "9" (- - .) will be comm 20.5 mi SSE Yucca, lat 34-49-00, long. 113-52-15. Elev 6032'. (9-4)
HOLBROOK MUN. ARPT (HOLBROOK)-CLOSED (rough). (6-13)
INTERNATIONAL ARPT (DOUGLAS)-Temp closed (const). (6-17)
KINGMAN ARPT-No inst flights cleared to Kingman. No obst lgts atop Haulpai Mt. (8500' MSL) 11 mi S. Rnwy lgts Rnwy 17-35 inop. (7-12)
LUKE FLD (PHOENIX)-Traffic direction indicator on N hangar. (1-11)
••MARANA ARPT-Still an army fld, will hereafter be carried as Marana AAF. (Phoenix chart). (9-9)
MARANA AAF-CLOSED. (9-9)
METEOR CRATER (Site 46, Los Angeles-Amarillo)-On or about Oct 1, site consisting of 36" double end bcn flash. alternate clear and red will be comm 25 mi SW Winslow, lat 34-59-22, long. 111-02-28. Elev 5634'. (9-11)
NOGALES INTERNATIONAL ARPT (NOGALES)-Use only NE/SW rnwy and paved taxiways, bal fld soft and rough due to heavy rains and erosion. (4-29)
PARADISE ARPT (GLENDALE)-Const. (6-3)
PHOENIX-Inst train. on Phoenix Range between 5500' and 9500'.
RYAN FLD (TUCSON)-Use rnwys only, bal fld soft in wet weather, parked acft. Washes N edge. (8-8)
SELIGMAN (Site 32, Los Angeles-Amarillo)-Rough. (4-24)
SKY HARBOR ARPT (PHOENIX)-Maj const until approx Oct 1. Equip. 750' N and S of center line of E/W rnwy, E of intersection of E/W and N/S rnwys, E end E/W rnwy. Land in dirt area S of E/W rnwy when landing to the W. All acft remain W of intersection of N/S, E/W rnwys, also stay S of a point 750' S of intersection of E/W, N/S rnwys. N/S rnwy closed-E/W rnwy closed intmtly during const. Closing of rnwys will be indicated by large white X on rnwy ends. Const work in ramp area extending just E of main hangar to just W of Terminal Bldg. (9-11)
THUNDERBIRD ARPT NO. 2 (PHOENIX)-Use strips only (parked acft).
TUCSON ARPT-Avail. civil. acft days only. (2-3)
••WICKERSHAM FLD (SAFFORD)-80,91 oct. (9-15). Info rec'd too late for inclusion on Flight Data Pages.
WILLIAMS FLD (CHANDLER)-RADIO: Army range unsatisfactory for radio navigation use for training only. (8-26) FLD: Use rnwys only.
WINSLOW ARPT-E end E/W taxi strip beyond first tie-in closed. (7-27)
YUCCA (Site 28, Los Angeles-Amarillo)-On or about Oct 1, site consiting of 24" rot. bcn and course lgts flash. char "5" (- . . . .) will be comm 6 mi S Yucca, lat 34-47-33, long. 114-07-23. Elev 1795'. (9-4)

ARIZONA-Continued

YUCCA AAF-Temp inactive-no facs. (See Special Notice re use). Adj bcn changed from green to clear. Bndry lgts in emerg only. (3-15)

ARKANSAS

ADAMS FLD (LITTLE ROCK)-Use rnwys only-shoulders soft. Equip. on fld. (8-7)
EL DORADO-RADIO: VHF range will be comm soon at lat 33-17-00, long. 92-46-00. Freq. 109.1 mcs, ident. "LD" (. - . . - . .). Visual courses: 45°, 225°. Aural courses: 135°, 315°, courses mag and towards stn. Mag. var: 7° E. Stn class: VARW. (8-14)
EL DORADO ARPT-GOODWIN FLD (EL DORADO)-Lgts avail. emerg only. (5-3)
FORT SMITH ARPT-Acft over 28,000 lbs use in emerg only. Use rnwys only-taxi strip and ramp being repaired. (7-8)
GRIDER FLD (PINE BLUFF)-Use strips only (parked acft). Closed ngts. (6-7)
HELENA-Two unlgtd 405' twrs crossing Miss. River at S edge city. (7-20)
JONESBORO ARPT-Use rnwys only. (8-16)
••McGHEE ARPT-New fld. 3/5 mi NNW; RR, hwy adj E. Lat 33-38-30, long. 91-24-00. Elev 145', 1 strip: 3000 x 300' N/S, 80 oct. (Shreveport chart). (5-22). Cattle on fld intmtly. (9-6)
McLAUGHLIN ARPT (HOT SPRINGS)-RADIO: Mobile Army twr transmits on 4420 kcs and receives on 4495 kcs only. (9-11) FLD: Use ctn when landing and taking off. (4-25)
PINE BLUFF-RADIO: VHF range will be comm soon at lat 34-14-18, long. 91-55-36. Freq. 108.7 mcs. Ident. "PL". Visual courses: 27°, 207°; Aural courses: 117°, 297°. Stn class: VARW. Mag. var. 7° E. (8-14). This corrects "AIRGI" Vol. 1, No. 11.
★STUTTGART-RADIO: Sept 10, CAA range comm at lat 34-40-20, long. 91-34-30. Freq. 269 kcs. ident. "DSA" (- . . . . . -) Courses: 83°,173°,263°, 353°. Bear. and dist. stn to Stuttgart AAF: 173°, 4.7 mi. Stn class: MRLWZ. (9-4). These data rec'd too late for inclusion on Flight Planning Charts.
THOMPSON-ROBBINS FLD (HELENA)-Use rnwys only (parked acft)
WALNUT RIDGE ARPT-Acft parked all areas fld and ramp. Use rnwys only. Equip. on fld. Closed 1730 to 0800. (4-4)

CALIFORNIA

ALAMEDA NAS-Maintain high approach on Rnwys 26L and 22. Heavy acft parked these areas. 175' unlgtd cranes 2000' from NE corner fld-ctn ngts and during low visibility. Lgtd dredge and pipe extending to shore operating 1/2 mi S of lagoon in seadrome. Equip. adj to and on rnwys. Fld on positive control. (8-16)
••ALEXANDER VALLEY ARPT (HEALDSBURG)-80 oct, sto. (7-13)
••AMERICAN LEGION ARPT (SALINAS)-Correct elev 75', No svcg. (San Francisco chart). (7-25) Obsts on E/W strip. (3-16)
BELMONT ARPT-Avail. at pilots risk (equip). NW end Rnwy 28 closed. (4-23)
BIDWELL FLD (RED BLUFF)-RADIO: Effect Sept 25, CAA twr will transmit on 272 kcs, 116.5,126.18 mcs. Gds 3105,4495,6210,3117.5 kcs, 126.18, 131.9 mcs. FLD: Tetrahedron inop-ctc twr or observe wind sock atop hangar. (4-7)
••BORDERLAND ARPT (SAN YSIDRO)-80,91 oct, sto, maj engine, acft repairs.(7-25)
••BORON ARPT-Revised data: 1/2 mi NE; RR, hwy S. Lat 35-02-45, long. 117-39-45. Elev 2550'. 3 strips: 2100' E/W, NE/SW, NNE/SSW, all 150' wide. (Los Angeles chart). (4-11)
••BOSTON LAND CO. ARPT (WESTHAVEN)-1-7/10 mi SSW; hwy N. Lat 36-12-15, long. 119-59-00. Elev 300'. 1 strip: 3100 x 150' NW/SE. (Mt. Whitney chart). (7-12)
BRAWLEY ARPT-Holes in extreme NW corner fld. (3-20)
BROWN FLD MAAS (OTAY)-Use in emerg only (caretaker status-no facs)
BURBANK-RADIO: Intermittent interference from Navy transmissions on adj channel of 245 kcs. (5-23)

SUPPLANT. LOCKHEED AIR TERMINAL-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STN. Right traffic use Rnwy 7. 15p left traffic use Rnwys 25, 33. Approach lgts Rnwy 7 changed to red. Lgts on approach to Rnwy 7 partially obstructed by trees. 2-way radio required all acft. (8-2)

CAL AERO ARPT (ONTARIO)-Use rnwys only (parked acft)

**CANYON FLD (FRESNO)-Only 80 oct. (7-24) No take-offs to SSE. Traffic pattern to the E. (7-24)

CATES (Beacon Site 235 mi. Blinker, San Francisco-Seattle)-Beacon inop.(2-17)

CLEAR LAKE SEAPLANE BASE-Avail. in emerg only. (6-11)

**COOLEY FLD (SAN CARLOS)-New fld. 2-9/10 mi NNW; RR S, hwy SW. Lat 37-31-15, long. 122-15-15. Elev 6'. 1 strip: 2080 x 200' E/W. 80,91 oct, sto, maj engine and acft repairs. (San Francisco chart). (6-20)

CORCORAN-135' unlgtd twr being const adj Santa Fe Railroad, downtown Corcoran Upon completion will be 148' high and lgtd. (2-24)

COTATI OLF-Crash truck avail. at Santa Rosa NAAS upon req. (6-11)

CROWS LANDING NAAS-Use in emerg only (caretaker status-no facs).

DESERT CENTER (Site 17, Los Angeles-Phoenix)-E/W rnwy emerg use only. (5-1)

DONNER SUMMIT-RADIO: Excessive interference with Army range at Mather Fld, Sacramento, Calif. NW course displaced 4° W, bear. 134°, SE course displaced 6° E, bear. 312°. (5-29)

**EL CAJON ARPT-2-1/10 mi N; hwy W. Lat 32-49-15, long. 116-58-00. Elev 450'. 1 strip: 2250 x 400' WNW/ESE. 80,91 oct, maj engine and acft repairs. No sto. (San Diego chart). (7-24)

EL CENTRO NAS-Lgts E/W rnwy inop. Avail. 0700 to 1500. Other hrs on 30 min prior notice. Service rnwy will be lgtd for emerg use. (6-24)

EL TORO MCAS-Fld carrier landing practive Rnwy 25L. Trans acft use Rnwy 25R when practice in progress. Rnwy tests. Fld on positive control. (5-7)

FAIRFIELD-SUISUN AAF (FAIRFIELD)-RADIO: Army ILS sys (SCS-51) temp inop. (7-8). Army range unreliable, use for homing only. (8-28). FLD: First 1000' Rnwy 25, new Rnwy 21 closed. (8-22)

**FURLONG FLD (FRESNO)-2 strips: 2100' NW/SE,3300' NNW/SSE,both 300' wide. (7-24

GARY FLD (BLYTHE)-Use rnwys only (parked acft).

GRAND CENTRAL ARPT (GLENDALE)-CLOSED TO ALL ACFT IN EXCESS OF 35,000 LBS. Parking area pitted, mrkd. W end Rnwy 12-30 being shortened 1000'. (6-1)

**GRIDLEY ARPT-Only 80,91 oct, sto, maj engine and acft repairs. (6-25)

★HAMILTON FLD (SAN RAFAEL)-RADIO: AACS, ground to air stn has discont oper on 2862 kcs voice. (9-9) FLD: Extension to Rnwy 12 closed except in emerg. (6-4)

HAMMER FLD (FRESNO)-Temp inactive-no facs. (See Special Notice re use).

HAWTHORNE ARPT-NORTHROP FLD (HAWTHORNE)-CLOSED EXCEPT ON OFF. BUS. Use Los Angeles Arpt.

HUMBOLDT COUNTY ARPT (EUREKA)-Closed to trans acft (const). (7-6)

★INYOKERN NAF-HARVEY FLD (INYOKERN)-RADIO: Navy twr decomm. (9-4) FLD: Use in emerg only (caretaker status-no facs). (8-14)

KERN COUNTY ARPT (BAKERSFIELD)-Unlgtd 92' pwr line 1/2 mi N of bndry. (7-3)

**LAMPSON FLD (LAKEPORT)-Only 80 oct. (7-12)

**LINDBERGH FLD (SAN DIEGO)-80,91 oct, maj engine and acft repairs, sto. Army temp inactive-civil. facs. Acft departing for or arriving from Mexico land at Lindbergh Fld for customs clearance. Closed to acft without 2-way radio unless prior approval rvcd from Arpt Manager. 30' crane SW end Rnwy 31. (8-21)

LIVERMORE NAS-Only Rnwys 3-21, 7-25 avail. Only Rnwy 7-25 will be lgtd ngts. Flood lgt truck used on Rnwy 3-21 upon req. Closed Mon and Tue every week except in emerg. (8-14)

LIVERMORE OLF-Obsts in SW corner fld. (2-4)

LOCKHEED AIR TERMINAL-See Burbank.

★LONG BEACH ARPT-RADIO: AACS, ground to air stn 165° 41 mont oper on freq 4890, 2862 kcs. (9-5). FLD: Obst lgts atop mi ESE (107°) true inop. No 91 oct mil acft. acft 0600-1630; svcg 0800-2400. No JP-1 fuel. Maintenance 1000 avail. all (6-27)

★LOS ALAMITOS NAAS-RADIO: Navy twr now operates 0800 to 1730, except in emerg. (9-2). FLD: Closed 1730 to 0800 except in emerg, Rnwy 22L closed. (9-1)

LOS ANGELES-SPECIAL NOTICE-All acft requested to avoid Hollywood Bowl area from 2000 to 2300 daily. (7-26)

LOS ANGELES-RADIO: About Sept 23, VHF range will be comm at lat 33-56-35, long. 118-25-49. Freq. 109.1 mcs, ident "LA" (.- .. .-). Visual courses: 96°, 276°; aural courses: 6°, 186°. Bear. and dist, stn to Los Angeles Arpt: 91°, 2 mi. Mag var. 16° E. Stn class will be: VARW. (9-10)

LOS ANGELES ARPT-MINES FLD (LOS ANGELES)-Unlgtd oil derricks on approach to Rnwy 34. Rot. bcn unlgtd days. E/W paved strips S side fld avail. taxiing only. N side fld under const. Equip. on fld, N edge Rnwy 7L-25R. All landings, take-offs and taxiing rstd to paved areas. Rnwys 11-29,4-22 closed. Army temp inactive-civil facs. Trans mil acft use Van Nuys Metropolitan Arpt. Obst lgts atop Army twr SW corner fld inop. (6-28)

LOS ANGELES-LONG BEACH HARBOR EMERGENCY SEAPLANE LANDING AREA-May not be avail. on short notice due to congestion in anchorage area. Two hrs advance notice should be given if possible. (7-1)

**MADERA ARPT-80,100 oct, minor engine and acft repairs. No sto. (7-24)

MARCH FLD (RIVERSIDE)-RADIO: Army (CAA type) ILS inop (relctn). (5-21)

**MARIN COUNTY ARPT INC. (SAN RAFAEL)-New fld. 2-9/10 mi NNE; RR, hwy W. Lat 38-00-45, long. 122-30-00. Elev 2'. 2 strips: 1650' NE/SW, E/W, both 200' wide. Hill E. 80 oct, tie-down sto, minor engine and acft repairs. (Sacramento chart). (6-29)

MATHER FLD (SACRAMENTO)-RADIO: Excessive interference with Donner Summit Radio. Army ILS (SCS-51) temp inop. (7-25). FLD: Use rnwys only. Mat unserviceable. (3-18)

McCLELLAN FLD (SACRAMENTO)-Rnwy 4-22 closed (parked acft). Equip. adj fld rnwys. Shoulders, unsurfaced areas unsafe. (4-24)

**MERCED MUN. ARPT-Only 80,100 oct. (7-10). Const. NW/SE rnwy closed. Ditches adj each edge NE/SW rnwy. (8-27)

MINTER FLD (BAKERSFIELD)-Temp inactive-no facs. (See Special Notice re use).

MIRAMAR MCAS (SAN DIEGO)-Rnwy 10-28 under const. Rnwy 6-24 avail. Fld on positive control. All acft in San Diego area use ctn while approaching Miramar MCAS. (3-19)

MOFFETT NAS-LTA (MOUNTAIN VIEW)-Equip, trenches adj NW/SE rnwy. Ctn landing taxiing, taking-off. Equip. on fld. Fld on positive control. Multi-engine acft above JN3 class use Rnwy 14L-32R only, except in emerg. (7-23)

MOJAVE NAS-Equip. on Rnwy 25. Fld on positive control. (8-18)

**MONTEBELLO ARPT-2 mi SSW; RR, hwy S. Lat 33-59-00, long. 118-07-30. Elev 180', 1 strip: 3400 x 350' N/S. 80,91 oct, sto, maj engine repairs. (San Diego chart). (6-28)

MUROC AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN. Lctd within a danger area. 50' equip. near W end Rnwy 6-24. No 91 oct. No facs 1900 to 0700 or Suns. (5-16)

NEEDLES-RADIO: 116.1 mc transmitter and receiver temp inop. (9-1)

NEWHALL PASS FM-RADIO: FM to be relctd soon at Castaic, Calif, lctd at Beacon Site 3B, LA-SF Airway, ident four dashes.

**NORTON SKY RANCH ARPT (HEALDSBURG)-Only 80,91 oct. (6-11)

OAKLAND-RADIO: 116.1 mc transmitter and receiver temp inop. (9-13)

OAKLAND ARPT-Naval acft avoid fld except on off. bus. Closed to civil. acft

except on authority from Arpt Supt. Rock surface area between E and W taxi way and Rnwy 27R avail. lgt acft. Take-off from center of area, adhere to instructions issued by twr. Taxiway leading from Rnwy 33 to ramp at Navy Terminal closed. Equip. on grass area W of Rnwy 24 ngts. Area under const mrkd. No gas or maintenance facs avail. 1800 to 0800 except in emerg. Ltd gas, maintenance facs 0800 to 1800. No Army opers or svcg avail. 2330 to 1700. Army facs to be discont in near future. (9-16)

O'CONNELL BROTHERS ARPT (BRAWLEY)-E/W strip being extended to 2400'. (7-21)

••OROVILLE ARPT-80,91 oct. (7-26) B-2 port. lgts inop. (7-26)

PALM SPRINGS AAF-Temp inactive-no facs. (See Special Notice re use). NW/SE rnwy and tetrahedron lgts, rot. bcn avail. (5-17)

••PETALUMA ARPT-80 oct, sto, minor engine and acft repairs. (7-22)

RAMONA ARPT-Hump in center of strip. Acft at one end of strip cannot see acft at other end. (7-24)

••RANCHAERO ARPT (CHICO)-New fld. 2-1/5 mi WSW; riv W, hwy NE. Lat 39-43-00, long. 121-52-30. Elev 170'. 1 strip: 2200 x 300' NW/SE. 80,91 oct, minor engine and acft repairs. Tie-down sto. (Sacramento chart). (6-12)

REAM NAAS (SAN YSIDRO)-Equip. on rnwys. Fld on positive control. (7-22)

••REDDING ARPT-Bcn, bndry, obst lgts. Ltd svcg avail. (Mt. Shasta chart).(9-10)

RYAN FLD (HEMET)-N side matted area rough. (5-2)

SACRAMENTO-RADIO: 116.1 mc transmitter and receiver temp inop. (8-23)

SACRAMENTO ARPT-Acrobatics, low flying days from flight strip 1000' W of Sacramento Arpt. NW/SE rnwy avail. days. Use rnwys, taxi strips only-shoulders soft. Unsafe small acft-rough. (9-16)

SAN BERNARDINO CO. ARPT (DAGGETT)-Obst lgts atop 50' poles along RR 1000' from end Rnwy 3 inop. Closed to civil. acft except in emerg. (7-2)

••SAN CARLOS ARPT-1 strip: 2300 x 300' NW/SE. Only 80,91 oct. (7-9)

SAN DIEGO NAS-Traffic circle oval in shape with left turns at 800'. Traffic pattern may be entered at any point at any angle not greater than 45°. Landing will not be made without passing thru Point Love, unless directed by twr. Point Love is lctd on traffic pattern 1-1/2 mi S of Hotel Del Coronado. Acft crossing air traffic lanes at North Island must be above 1500'. Acft will not fly over Coronado or Amphibious Train. Base at an alt of less than 1500'. Multi-engine acft land on heavy duty rnwys, single-engine acft on asphalt mat. Equip. on heavy duty concrete taxiways. Tetrahedron removed (repairs). Equip. off W end Rnwy 11-29. Mrkd taxiways closed. All acft use ctn. (8-13)

SAN FRANCISCO ARPT-Two lines unmrkd white spar buoys 8' above water moored in NW/SE direction along edges of shipping channel adj to easterly side of Seaplane Area and extend SE therefrom. Anchored vessels in shipping channel between lines of buoys. Vessels unmrkd and will be lgtd only as required. Avoid rnwy, taxiway shoulders. Turf area closed, unmrkd hazards. Use rnwys, taxiways. Rnwy 18-36 closed (const). (7-18)

SAN FRANCISCO BAY-Rnwy marker lgts and buoys in seaplane landing area N of San Francisco-Oakland Bay bridge between Treasure Island and the mainland have been temp removed. (2-6)

••SAN MATEO ARPT-Revised data: 2-1/5 mi ESE; RR E, hwy W. Lat 37-33-45, long. 122-17-30. Elev 6', 1 strip: 1500 x 100-700' NW/SE, 80,91 oct, tie-down sto, maj acft and engine repairs. (San Francisco chart). (6-20). Const. Avail. lgt acft only. (4-29)

SAN NICOLAS ISLAND NAAS-Use in emerg only (caretaker status-no facs).

••SAN RAMON ARPT-New fld. 2-1/2 mi SE; RR adj E. Lat 37-45-00, long. 121-56-45. Elev 440', 2 strips: 2500 x 600' N/S; 1920 x 150' NW/SE. 80,91 oct, sto. (San Francisco chart). (4-17)

★SANTA BARBARA ARPT-RADIO: CAA twr now guards 3105,4495,6210,3117.5 kcs, 118.7 mcs. Operates 0700 to 2300. (9-16)

••SANTA CRUZ ARPT-Only 80 oct. (7-25)

SANTA MARIA AAF-Stay clear rnwy, taxiway sides. E/W rnwy closed. Temp inactive-no facs. (See Special Notice re use).

SANTA MONICA ARPT-CLOVER FLD (SANTA MONICA)-Avail. trans acft with 2-way radio. Closed ngts and to all student pilots. (8-10)

••SANTA ROSA ARPT-Bcn, 24° rot. ctc, obst lgts. Lgts on req. 80,91 oct, sto, maj engine and acft repairs. (Sacramento chart). (7-13)

SANTA ROSA NAAS-Equip. along rnwys. E/W rnwy closed. (6-11)

SECRET VALLEY (Site 52, Riverside-The Dalles)-Effect Sept 21, all lgts will be discont. Fld will be avail. days only. (9-12)

••SHAFTER-KERN COUNTY ARPT (SHAFTER)-Correct lctn: 2-3/10 mi SSE; RR, rd adj E. Lat 35-28-15, long. 119-15-30. Elev 340'. (Los Angeles chart). (6-24)

SHERMAN FLD (WALNUT CREEK)-Surplus Acft Sales Center-parked acft.

STOCKTON FLD-Rnwy 4-22 closed. At ngt or under IFR large depot 6-1/2 mi S looks like arpt, lgts resemble parallel rnwys. Temp inactive-no facs. (See Special Notice re use). (6-24)

SWEETWATER LANDING STRIP-Arrangements for using this fld made thru Opers Officer NAAS Brown Fld. No communications at landing strip. (5-13)

TERMINAL ISLAND NAAS (SAN PEDRO)-Trans acft not cleared to fld after sunset. (9-4)

★TRONA-RADIO: Effect Sept 10, receiving watches, voice fac, and teletype service operating from 0800 to 2400. Range and stn location marker operating cont.

TRONA (Site 13, Riverside-The Dalles)-Soon all lgts will be discont-will be avail. days only. (8-3)

TULARE LAKE SEAPLANE BASE-CLOSED (water level 2'). (7-17)

••UKIAH MUN. ARPT-Only 80 oct, minor engine and acft repairs. No sto. (7-13)

••UNIVERSITY ARPT (DAVIS)-Revised data: 2-2/5 mi WSW; RR E, hwy S. Lat 38-32-15, long. 121-47-15. Elev 65'. 3 strips: 3600' N/S; 3700' NE/SW; 2500' NW/SE, all 150' wide. 80,91 oct, sto, maj engine, acft repairs. (Sacramento chart)(8-13)

••VALLEJO SKY HARBOR ARPT (VALLEJO)-New fld. 3-1/2 mi NNW; RR, hwy adj E. Lat 38-09-15, long. 122-15-30. Elev 10'. 1 strip: 2500 x 100' NE/SW. 80,91 oct, maj engine and acft repairs. No sto. (Sacramento chart). (3-15)

VAN NUYS METROPOLITAN ARPT-E/W rnwy closed. Rot. and flash. bcn inop. Ltd facs avail. 0700 to 1900 temp. (5-29)

VENTURA CO. ARPT (OXNARD)-Bcn, bndry, obst lgts inop. Flare pots avail. ngts in emerg or by prior arrangement. (5-7)

VERNALIS FLD-CLOSED (equip. obsts on rnwys, aprons). (8-15)

VICTORVILLE AAF-Use Rnwys 16L-34R, 7R-25L only. (7-3)

VULTEE ARPT (DOWNEY)-Rnwys avail. days only when on Off. Bus. (6-25)

••WATSONVILLE MUN. ARPT-Elev 178'. Only 80,91 oct. (San Francisco chart)(7-25)

••WILLITS ARPT-1-3/10 mi ENE; RR, hwy W. Lat 39-24-45, long. 123-20-00. Elev 1356'. 1 strip: 2000 x 150' E/W. Trees E, pole line W. 80 oct. (Sacramento chart)

CANADA

★SPECIAL NOTICE-RADIO: All stations bdcasting weather schedules at 40 minutes after the hr will now bdcast two times during the hr, at 10 and 40 minutes after the hr, those bdcasting at 43 minutes after the hr will bdcast at 13 and 43 minutes after the hr. (7-18).

ALBERTA

★CALGARY-RADIO: Courses are now aligned as follows: 156°-A-247°-M-312°-A-34°-M. Weather bdcast: 10 and 40: Penhold, Calgary, Lethbridge, Cowley and Medicine Hat. (7-18)

★COWLEY-RADIO: Courses are now aligned as follows: 169°-A-244°-M-321°-A-65°-M. Weather bdcast: 10 and 40: Kimberly, Cranbrook, Cowley, Lethbridge, Calgary.

★MEDICINE HAT-RADIO: Weather bdcast: 10 and 40: Calgary, Lethbridge, Medicine Hat, Swift Current. Range courses are now aligned as follows: 109°-A-241°-M-289°-A-52°-M. (7-18)

★WHITECOURT-RADIO: Simultaneous feature and Stn location marker comm. Stn class: SBRAZ-D. (7-18)

ALBERTA

★ABBOTSFORD-RADIO: Stn now guards 3105,4495,6210,3117.5 kcs. (7-18)

BRITISH COLUMBIA

★COMOX-RADIO: Stn now guards 3105,4495,6210,3117.5,2946,5037.5 kcs. (7-18)

★DOG CREEK-RADIO: Stn now guards 3105,4495,6210,3117.5,(M), 5390 (D) kcs. (7-18) Stn also guards 2890(M) kcs.

★KIMBERLEY-RADIO: Stn now guards 3105,6210,3117.5 kcs. (7-18)

★MASSETT-RADIO: Stn now guards 3105,4495,6210,3117.5 kcs. (7-18)

★PORT HARDY-RADIO: Stn now guards 3105,4495,6210,3117.5,1674,2946,5037.5, 6545 kcs. (7-18)

★PRINCE GEORGE-RADIO: Stn now guards 3105,4495,6210,3117.5,2890(M),5390(D) kcs. (7-18). Stn also guards 4755 (M) kcs.

★QUESNEL-RADIO: Stn now guards 3105,4495,6210,3117.5 kcs. (7-18)

★TOFINO-RADIO: Stn now guards 3105,4495,6210,3117.5 kcs. (7-18)

NEW BRUNSWICK

★BLISSVILLE-RADIO: Weather bdcast: 10 and 40: Millinocket, Blissville, Moncton, Pennfield Ridge. (7-18)

NOVA SCOTIA

★DARTMOUTH-RADIO: Simultaneous feature comm. Stn class: SBRAZ-DT. (7-18)

★DARTMOUTH AIRPORT-RADIO: Arpt twr now transmits on 278 kcs, 126.18 mcs. Guards 3105,4495,6210,3117.5 kcs, 126.18 mcs. (7-18)

★YARMOUTH-RADIO: Stn location marker comm. Stn class: BRAZ-DT. (7-18)

ONTARIO

★ARMSTRONG-RADIO: Simultaneous feature comm. Stn class: SBRAZ-DT. (7-18)

★LONDON AIRPORT-RADIO: Arpt twr now guards 3105,6210,3117.5 kcs. (7-18)

★NORTH BAY AIRPORT-RADIO: Arpt twr now guards 3105,6210,3117.5 kcs. (7-18)

★TORONTO AIRPORT-RADIO: Arpt twr now guards 3105,4495,6210,3117.5 kcs.(7-18)

★TRENTON AIRPORT-RADIO: Arpt twr now guards 3105,6210 kcs. (7-18)

★WINDSOR AIRPORT-RADIO: Arpt twr now guards 3105,6210,3117.5 kcs. (7-18)

QUEBEC

★CARTIERVILLE AIRPORT-RADIO: Arpt twr comm, transmits on 271 kcs, guards 3105,6210 kcs. Operates cont. (7-18)

SASKATCHEWAN

★DAFOE-RADIO: Stn location marker comm. Stn class: BRAZ-DT. (7-18)

★NORTH BATTLEFORD-RADIO: Stn now guards 3105,6210,3117.5 kcs. (7-18)

★YORKTON-RADIO: Stn location marker comm. Stn class: BRAZ-DT. (7-18)

COLORADO

BUCKLEY FLD (DENVER)-Temp inactive - no facs. (See Special Notice re use).

DENVER-Mortar firing is being conducted approx 3 mi NE of Stapleton Arpt. 0800 to 1600, except Sun, thru Oct. 9. Ceiling and visibility is unlimited. Height of trajectory - 15,000' MSL. This data received too late for inclusion on Flight Planning Chart. (9-12)

DENVER (BUCKLEY FLD)-All acft observe bombing danger area approx 12 mi ESE within the following bndry: N by lat 39-41; S by lat. 39-35; W by long. 104-45; E by long. 104-26. (8-15)

ESTES PARK ARPT-Land to S only. Pwr approach recommended and landings should be made in first 1/3 of rnwy. If necessary to circle again do not make left turn without at least 500' alt. (6-20)

LA JUNTA AAF-Temp inactive - no facs. (See Special Notice re use).

••LAMAR, KELSEY ARPT-SITE 10, PUEBLO-WICHITA-Name changed to Lamar Arpt-Site 10 Pueblo-Wichita. Only 80 oct, sto. (Denver chart). (9-9) This data rc'd too late for inclusion on Flight Planning Charts.

LOWRY FIELD (DENVER)-RADIO: AACS, ground to air stn temp suspended. (8-19) FLD: Ltd parking and quarters. (8-19)

MONTE VISTA ARPT-CLOSED (const.) (8-8)

COLORADO-Continued

PINE VALLEY ARPT (COLORADO SPRINGS)-N/S rnwy avail. All rnwys being widened to 300'. Heavy const equip on fld days. Use rnwys only. (7-5) New N/S rnwy being const W of present N/S rnwy. Pattern markers only.

PUEBLO-High explosives are being detonated in an area 6 mi by 7 mi, approx. 17 mi E of Pueblo Arpt. (1½ mi N of Red Arwy 35). Acft are requested not to fly in this area. (7-18)

★PUEBLO-RADIO: Auto. range monitor. sys comm Sept 10, monitor. SE course (329° mag.)

PUEBLO ARPT-Rot.bcn stop hanger when lgtd indicates fld closed except to scheduled air-carrier acft and shall be lg'd only when air-carriers are approaching fld or taking-off. Capt of air-carrier acft shall report his arvl time not less than 5 minutes before approaching fld. Air-carriers taxi on oiled rnwys only. (9-13)

PUEBLO AAB-Temp inactive - no facs. (See Special Notice re use).

ROYAL GORGE ARPT (CANNON CITY)-Do not land to the S (tlfo lines)(6-11)

RUSTON FLD (DENVER)-Const. Strips soft during wet weather. (5-25)

RUTLEDGE FLD (DU PONT)-Surplus Acft Sales Center-parked acft.

SKY RANCH AIRPORT (DENVER)-RADIO: Mun. twr temp inop. (4-1) FLD: Right traffic Rnwys 26,30,36; left traffic Rnwys 8,12,18. Traffic controlled by manually operated tetrahedron. Avail. CFR oper days only. (3-27)

STAPLETON ARFLD-DENVER ARPT (DENVER)-Ltd svcg facs. (5-25)

TRINIDAD AIRPORT-Avail. lgt acft only. Hangar being constructed N end fld adj center of fence line. Equip. on fld. (7-18)

WALKER FLD (GRAND JUNCTION)-RADIO: CAA ILS lclzr ident temp inop. (9-14)

CONNECTICUT

BRAINARD FLD (HARTFORD)-Equip on fld intmtly. Turf closed to heavy acft (soft). 300' bldg under const 1½ mi NW of fld bndry, close to NW leg Hartford Range. Flood lgts N end N/S rnwy inop. 75' lgtd pile driver moored in Conn. River 700' S of N/S and NW/SE rnwy intersection. (7-24)

BRIDGEPORT ARPT-Use rnwys only. (8-2)

BROOKFIELD ARPT-Open only to planes grossing less than 2000 lbs and closed to trans student pilots. (6-10)

★HARTFORD-RADIO: Bear. and dist, stn to Brainard Fld: 323°, 2.3 mi.)9-12)

NEW HAVEN ARPT-Avail days only. Use rnwys only. (12-4)

SIMSBURY ARPT-Turf soft. Washouts E end E/W rnwy. (5-21)

DELAWARE

BELLANCA FLD (NEW CASTLE)-Use rnwy only. Sod strips under const. (6-13)

★DOVER AAF-RADIO: Army twr now operates from 0700 to 1900 daily. (9-9) FLD: Temp inactive-no facs. (See Special Notice re use). (9-1)

★NEW CASTLE-RADIO: Correct lctn of range operated by TWA: lat 39-38-00, long. 75-36-45. (9-10). This corrects "Airgi", Vol. 1, No. 12.

DISTRICT OF COLUMBIA

SPECIAL NOTICE-TELEVISION TWR 730' ASL ERECTED 6.2 MI NW (302°) OF WASHINGTON NATIONAL ARPT, LAT 38-53-46, LONG. 77-08-05. (3-22)

ANACOSTIA NAS (WASHINGTON)-Avail. 0700 to sunset. Avail. to transport traffic after sunset upon receipt of 2 hrs prior req of ETA. (7-12). Boom const masts 100 to 150' high lctd 600 to 800' N of Rnwy 3-21, lgtd ngts, yellow flags days. (2-5)

BOLLING FIELD (WASHINGTON)-Rnwys 10-28, 14-32 closed. Rnwy 17-35 closed to acft when weather conditions below ctc flight minimums. No 91 oct. (4-29)

★WASHINGTON-RADIO: Correct bear. and dist, stn to Washington National Arpt: 25°, 0.9 mi. (9-12)

WASHINGTON NATIONAL ARPT (WASHINGTON)-RADIO: Glide path of ILS temp decomm. (6-15). ILS will be shut down Sept 9 for approx 30 days. (8-31) FLD: Navy: Closed to Navy acft except MATS. Use Anacostia NAS. In Special instances, all of which will be cleared by Anacostia Twr, Washington Nat'l Arpt will be avail. to Navy planes. Army: All previous instructions re use

rescinded and following substituted. Closed to trans Army acft except those of ATC, those having off.bus.at fld and those carrying VIP. Acft carrying VIP will make their stop as brief as is consistent with mission to be performed and in no case RON. Bolling Fld or Andrews Fld will be used for all other Army flights except in emerg. Army acft landing this fld should taxi to new ATC Terminal Bldg N of Admin Bldg. General: Cls'd to acft without radio. Stay on paved areas, edges soft. Flood lgts W end E/W rnwy inop. Excavation, equip along taxiways 1,2,3,4,5,6; ends of Rnwys 18,21,33,27,36 and 3. Use extreme ctn when swinging planes in these areas. Equip SE portion fld and along apron edge. Ctn taxiing or parking on apron. Flood lgts on Washington Monument 3 mi N inop. (6-15)

FLORIDA

ALBERT WHITTED ARPT (ST. PETERSBURG)-Fld unlgtd - smudge pots avail. on 1 hr notice. Avoid sodded areas, white sand area E of N/S rnwy extending to water (soft)(1-2)

APALACHICOLA AAF-Temp inactive. No facs. (See Special Notice re use).

AVON PARK AAF-Temp inactive. No facs. (See Special Notice re use).

BANANA RIVER NAS-RADIO: Navy exper VHF rnwy localizers and various types of ILS operate intermittently day, ngt. (5-2). Navy range ground-checked only. (9-3) FLD: Closed to civil acft days except on prior permission from CO and in emerg. Closed ngts to civil. acft except in emerg.S end Rnwy 2-20 under const. Taxiway lgts being installed-rnwy lgts being repaired, lgtd on req. (8-23). Acft of various types operating cont during IFR up to and including 2000' with weather minimums as low as 200' ceiling and 1/8 mi visibility. Air space will include area 20 mi radius from Banana River NAS. Acft will practice inst approaches. (4-17)

BANANA RIVER NAS SEAPLANE BASE-Seaplane landing area avail. W of stn on Banana River. Wind line consisting of 7 green lgts on location in center of area ngts when training is scheduled. (7-11)

BOCA RATON AAF-Port. floods avail. on 15 minutes notice. No 91 oct. Stay on rnwys - shoulders soft. (6-27)

★BRONSON FLD NAAS (PENSACOLA)-RADIO: Navy landplane and seaplane twrs decomm (8-28) FLD: Closed to all trans acft. (8-14)

CECIL NAAS (JACKSONVILLE)-Use in emerg only (caretaker status - no facs).

CRAIG FIELD (JACKSONVILLE)-Use rnwys only. (6-3)

DALE MABRY FIELD (TALLAHASSEE)-RADIO: 281 kc, 126.18, 118.3 mc transmitters and 3105,3117.5,4495,6210 kc, 11843,126.18 mc receivers at CAA twr temp inop. Twr now operating on E side of fld with lgt signals only. (7-10) S 500' N/S rnwy unusable. 26' bldg erected 900' NW of NW end NW/SE rnwy, lgtd. Observe twr E side fld for lgt signals. (8-6)

**DELAND MUN. ARPT-Bcn, 36" rot, range, ctc, obst lgts. Only 87,91 oct. (Orlando chart)(7-12)

DREW FIELD (TAMPA)-Use rnwys only. Equip. on fld days. Avail. to radio receiver-equipped acft tuned to twr freq. (6-28)

EGLIN FLD (VALPARISO)-RADIO: Army ILS sys (SCS-51) temp inop. (7-30) FLD: Acft approaching fld will enter Danger Area on the N or S side of area (25 mi. S) along right edge of S leg of Crestview Range. (1)-Acft on CFR will fly 3000' or 500' below the ceiling whichever is lower, until cleared by Eglin Twr. (2)-Acft on IFR will enter at last assigned airways cruising alt and ctc Eglin twr for letdown instructions. Exten const. All rnwy lgts inop. Closed 2000 to 0600. Rnwy 13-31 closed. (7-29)

ELLYSON NAAS-EAST & WEST FIELD (PENSACOLA)-CLOSED TO TRANS ACFT EXCEPT IN EMERG. (10-27)

FORMAN OLF (FORT LAUDERDALE)-RADIO: Field control will be by a rnwy portable radio transmitter operating on 142.74 mcs.

FORT LAUDERDALE-Obst lgts inop on N twr Radio Stn WGBS ltd 8 mi W. (8-10)

FORT LAUDERDALE NAS-Open to all mil acft 0600 to 1800. Closed ngts. (6-15)

GILBERT FLD (WINTER HAVEN)-Use rnwys only. (12-22)

HIDDEN ACRES ARPT (CLARCONA)-W end E/W strip being graded - E 1500' avail lgt acft. (6-26)

HILLSBOROUGH ARPT (TAMPA)-CLOSED. Sinkhole center of E/W rnwy 100' E of intersection center of fld. (5-26)

HOEQUIST AIRPORT (ORLANDO)-S half E/W rnwy avail. marked. (3-20)

**HOMESTEAD ARPT-Name changed to South Dade County Arpt. Ctc, obst lgts. No bcn Only 87,91 oct, maj engine and acft repairs. No sto. (Miami chart)(7-19)

**JACKSONVILLE ARPT NO. 1-10' I.L.S. bldg ltd 1000' NE of NE/SW rnwy completed (9-7) Army facs only. Equip. both ends NE/SW rnwy. Rnwy 18R-36L closed. (9-14)

JACKSONVILLE NAS-Closed to all ngt seaplane opers. Trans acft desiring ngt landing facs notify Jacksonville NAS 12 hrs in advance. Testing equip. on fld. (3-4)

**JASPER (Site 43, New Orleans-Jacksonville)-Name changed to Jasper Arpt, Site 43, New Orleans-Jacksonville. (Jacksonville chart)(9-13). Info. rec'd too late for inclusion on Flight Data pages and Flight Planning Charts.

**KAY LARKIN ARPT (PALATKA)-Bcn rot, range, ctc lgts. 91 oct. (Orlando chart) (7-10)

**KEY WEST-The entire over-water danger area surrounding Key West has been discont. Cancel area from chart "Fla. 3" in "Danger Areas".

KEY WEST-RADIO: Courses aligned by ground check only. (9-9)

KEY WEST NAS-150' lgtd oil derrick being erected 8 mi ENE (76°) true. (6-7)

KEY WEST NAS SEAPLANE BASE-CLOSED TO TRANS ACFT EXCEPT IN EMERG. OR PRIOR ARRANGEMENT. (6-19)

LEE OLF (GREEN COVE SPRINGS)-Closed except in emerg. and off. flights. 24 hrs advance notice to CO NAS, Jacksonville required to arrange facs for landing (1-26)

LEESBURG AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT UNDER WRITTEN ORDERS OF AN AIR FORCE, COMMAND OR HIGHER AUTHORITY OR IN EMERG. No facs.

★MacDILL FLD (TAMPA)-RADIO: Glide path of Army ILS (SCS-51) temp inop. (6-19) Army H fac temp inop. (8-5) RACS, ground to air stn no longer operates on 4890,2862 kcs voice. (9-9). FLD: Rnwys 4-22,13-31 and 18-36 avail. (8-12)

MARIANNA AIRPORT-Equip. on fld days. Flagged hole in Rnwy 8-26. Rnwy 4-22 closed. (10-10)

★MASTER OLF (MIAMI)-RADIO: Navy twr now operates from 0700 to 30 minutes after sunset. (9-5) FLD: Closed from 30 min. after sunset until 0700.(9-5)

MAYPORT CGAS-Closed to all traffic except Air Sea Rescue and emerg landings (caretaker status - no facs).

MEACHAM AIRPORT (KEY WEST)-Two unlgtd 40' water tanks 400' E of S end Rnwy 4-22. (7-10)

MELBOURNE-RADIO: Range flight-checked Sept 5, courses correctly aligned.

MIAMI INTERNATIONAL ARPT-AAF (MIAMI)-Domestic trans acft must taxi to Army Terminal Bldg SE side fld upon landing and prior to take-off and register with Ramp Supervisor. Scheduled Air-carrier and International acft requiring immigration and customs service use 36th St. Terminal Bldg. Non-scheduled trans acft requiring customs service advise twr prior to landing. Use rnwys only. Obst lgts inop atop Seaboard Railway Shops S bndry of N fld. NE/SW rnwy closed. Equip. on fld. Closed to trans Navy acft, use NAS in vicinity. Hangar under const E end N portion of fld approx 500' S of center line and 600' E of E end of the Northernmost E/W rnwy, now 28' high. 35' elevator erected to handle cost material, lgtd ngts. Hangar unlgtd-to be lgtd upon completion. Taxiway immediately in front of 36th St. Terminal Bldg connecting Northernmost E/W rnwy and E/W taxiway barricaded at SE and NW ends, mrkd. Taxiwy under const on N side E of E/W rnwy. SE taxiway in

center fld closed-equip. this area mrkd. SE taxiway connecting E/W rnwy and taxiway along S bndry of fld closed, mrkd by flares. (8-20)

★MIAMI NAS-RADIO: Navy twr now operates cont. (9-5) FLD: Acft warned to remain on N leg Miami Range for distance of 25 mi N of range stn when passing Miami NAS. Stay well clear of NW corner fld as this is a fighter training break up area. Acft practicing touch and go landings during hrs of darkness. (9-5)

MORRISON FIELD (WEST PALM BEACH)-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON OFF. BUS. OR IN EMERG. Only 73,100 oct. N/S rnwy avail. days only. Air Rescue Service acft will be cleared into this fld. (8-9)

NORTH POMPANO OLP (POMPANO)-CLOSED (no facs). (1-24)

ORLANDO AAB-ORLANDO ARPT-Closed to acft exceeding 50,000 lbs except for use alternate destination by scheduled air-carrier. Northernmost E/W, Westernmost N/S rnwys closed. No 91 oct. No Army opers, weather facs, transportation, svcg or maintenance 1600 to 0730. No Army maintenance Sats or Suns. Stn WORZ erecting three 333' twrs approx 7 mi W (265°) true, one 333' twr completed, lgtd. (9-9). Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon. thru Fri. (7-1)

PAGE FLD (FT. MYERS)-NE/SW, NW/SE rnwy lgts and tetrahedron inop. Obsts S side fld lgtd. Use E/W rnwy only at ngt. (9-14)

PENSACOLA ARPT-Exten Navy train. throughout area. Joint pattern at 500' left turn and circle. Use rnwys only. Taxi to right on nearest avail. taxi strip Opers and svcg lctd brick hangar. Rnwy 12-30 closed. (8-29)

PENSACOLA NAS-CHEVALIER FIELD (PENSACOLA)-Avail. days only. Ngt landing should be made at NAS Corry Fld. Permission may be obtained to land at Saufley Fld or North Whiting Fld. Multi-engine acft requiring rnwys in excess of 2500' should land at NAS, Corry Fld, bear. 341° NNW. Disposition Delivery acft should land at NAAS, Ellyson Fld. Pilots desiring to land at Chevalier Fld should contact Pensacola Navy Twr before entering traffic pattern. Const equip on fld until approx Sept. 25. Ctc twr for landing instructions.(8-22)

PETER O. KNIGHT AIRPORT (TAMPA)-Two 101' derricks 1000' and 1390' E of E seawall, lgtd. Equip. on fld days. Fld open to radio-receiver-equipped acft tuned to twr freq. Sodded areas unsafe heavy acft. Rnwy lgts avail. on 1 hrs notice between 1900 and sunrise. (5-11)

★PINECASTLE AAF-RADIO: Army ILS (SCS-51) now operating as follows: Serves N/S rnwy with approach from S. Lclzr transmitter lctd 800' N of N end N/S rnwy, freq 109.1 mcs. Mag heading for landing: 360°. Glide path transmitter lctd 918' N of S end N/S rnwy 315' from centerline on yellow side of lclzr course, freq 335 mcs. Three marker bcns: inner marker, .17 mi.; middle marker, .66 mi, keyed six dots per sec.; outer marker: 4.5 mi, keyed 2 dashes per sec, all S of S end N/S rnwy. Sys operates on req to twr daily from 0800 to 1600. (8-21). Army ILS (SCS-51) Temp inop. except for lclzr. (7-23) FLD: Radio controlled target ship in Pinecastle Area 6 mi S of Orlando 0800 to 1200 daily Mon. thru Fri. (7-1) Fld avail. 0700 to 1700; other hrs on req. Req. pilots land at Orlando AAB if not on off. bus. this stn. No 91 oct. (4-22)

**PINELLAS ARPT (ST. PETERSBURG)-Name changed to Pinellas County Master Arpt. Bcn, 36" rot. with clear course lgts, bndry, range, ctc, flood, obst lgts. 91, 80 oct, maj engine and acft repairs. No sto. (Miami chart)(6-7)

RICHMOND NAS-LTA-Use in emerg. only (caretaker status - no facs).

RIDDLE FIELD (CLEWISTON)-Lgt bar and rod steel mat not recommended for heavy acft. Twr operates only during scheduled flying. Unsafe areas not completely marked days, unmarked ngts. Inadequate bndry lgts, markers. Cloud flying practiced whenever clouds are broken to overcast during daylgt hrs in area bounded by lat. 26-27 and lat 26-43, long. 80-50 and long. 81-27. Use rnways only. Grass areas flooded most of summer. (7-27)

RUSSELL-RADIO: Navy range temp inop. (10-24) (7-30) (5-24)

ST. AUGUSTINE ARPT-Beacon, bndry lgts inop.

STENGEL FIELD (GAINESVILLE)-Equip. on fld, marked.

TAYLOR FIELD (OCALA)-Use rnwys only. (5-8)

VERO BEACH-Blasting of ground structure will be in progress thru Nov 15 on North Island in an area lying between the Atlantic Ocean and Indian River extending 7 mi S from a line due E of Vero Beach. Dangerous to low flying planes. (8-3)

VERO BEACH ARPT-All lgts inop. (8-22)

WHITING FIELD NAAS-NORTH (MILTON)-Avoid fld area under 2000'. 6" sloping curb at edges all rnwys. Tetrahedron indicates rnwy in use and not wind direction. NE/SW rnwy lgts inop. (3-2)

GEORGIA

★ALBANY-RADIO: VHF voice fac comm at communication stn Sept 13. Transmits on and gds 116.1 mcs cont. Stn class: BMRLZ-VDT.

ALBANY ARPT-Use rnwys only. (7-22)

ATHENS ARPT-Bndry, beacon lgts inop. (8-10)

ATLANTA ARPT-RADIO: Middle marker of CAA ILS lctd 3600' SE of SE end NW/SE rnwy, keyed with alternate dots and dashes will be comm soon. Outer marker will be relocated 4.5 mi SE of SE end NW/SE rnwy. Localizer temp inop.(7-25) FLD: Twrs of Radio Stn WSB approx 12 mi NE being dismantled. Will be lgtd during dismantling. (7-25). Const. engineers on fld intermittently. Use rnwys ngts. Closed to all HB and VHB acft. Army temp inactive - civil. facs. Trans Army acft use Mariette AAF. (8-3)

ATLANTA NAS-Acft on IFR between 2000 and 0700 clear thru ATC and proceed to Atlanta Airport. Const equip. along all rnwys. (5-10)

AUGUSTA-Three 310' twrs, one 420' twr being constructed by Radio Stn. WRAC approx 5 mi N Augusta Range Stn, obst lgtd. (7-18)

BEMISS FIELD NO. 3 (VALDOSTA)-CLOSED. Not used as flying fld. (11-13)

BOWERS ARPT (BAINBRIDGE)-CLOSED (high weeds)(8-14)

BUSH FIELD (AUGUSTA)-WAC planes parked entire fld off rnwys. Use rnwys only. No lgts or svcg. Close flight plans with Bush Twr. (7-1)

CAMP STEWART AAF (HINESVILLE)-Temp inactive. No facs. (See Special Notice re use). Cattle on fld. (12-17)

CHATHAM AAF (SAVANNAH)-Temp inactive. No facs. (See Special Notice re use). Rot. bcn inop. (5-22)

COCHRAN FLD (MACON)-Temp inactive. No facs. (See Special Notice re use). Use rnwys, taxi strips only. (12-5)

COOK COUNTY ARPT (ADEL)-Lgts inop. (5-17)

**CORDELE MUN. ARPT.-3 rnwys: 5200' NE/SW, NW/SE, E/W, all 150' wide. Bcn 24" rot., bndry, obst lgts. 80 oct. (Jacksonville chart)(6-14)

* DANIEL FLD (AUGUSTA)-RADIO: CAA twr comm Sept. 5. Operates 0800 to 2400.

** Lgt gun oper only. (9-5) FLD: 80,91 oct, minor engine and acft repairs. No sto. (Savannah chart)(7-1)

GLYNCO NAF-LTA-RADIO: Navy twr temp closed, operates on call on 1 hr notice. FLD: Landing mat being repaired. (6-12)

HINESVILLE ARPT-Equip. on fld and in approach zones intermittently. (2-26)

HUNTER FIELD (SAVANNAH)-Sharp incline of approx 20', 370' on approach to Rnwy 23L. 120' twr lgtd ngts between Rnwys 10 and 15 outside outer perimeter. (7-13)

KINGS ARPT (MILLEDGEVILLE)-Soft after rainy weather. (7-22)

LA GRANGE ARPT-Heavy acft use rnwys, taxiways only (grass areas soft). (12-27)

GEORGIA-

LAWSON FLD (COLUMBUS)-MAKE ALL APPROACHES TO LAWSON FLD W OF CHATTAHOOCHEE RIVER, HIGH TRAJECTORY FIRING E, SE OF LANDING AREA DAY, NGT. Pilots may be required to make cross-wind landings. Use rnwys only. 4 lgtd parachute jumping twrs E of fld; mass parachute jumping from all alts under 1600' scattered thru area 10 mi sq. S of fld. Drainage ditch with unlgtd fence between ends Rnwys 2 and 32. Traffic pattern - right hand on Rnwys 14, 20, 27; left hand on 2, 9, 32. (6-25)

LE TOURNEAU AIRPORT (TOCCOA)-NNE/SSW strip closed (const). Avail. only with extreme caution. 1000' extension being added to W end E/W strip. (8-6)

**MARIETTA AAF-Bcn, ctc, obst lgts avail. up to 2000. (Birmingham chart)(9-9) No 73 oct. Ltd sto. Facs avail. 0800 to 2000. Radio stn WFOM erecting unlgtd 100' twr 2 mi WSW. (9-9)

MOODY FLD (VALDOSTA)-Temp inactive. No facs. (See Special Notice re use). 2 obst lgts atop Radio Stn WGOV inop.

NORTHSIDE ARPT (MOULTRIE)-NE/SW strip closed.

ROBINS FLD (WARNER ROBINS)-No 91 oct. (7-17)

ROCKY FORD FLD #1 (VALDOSTA)-CLOSED TO ALL HEAVY ACFT. (7-18)

ST. SIMONS ISLAND NAS-Avail. only to mil acft and scheduled airlines sunrise to sunset. Closed ngts except on prior req. Only 100 oct avail. (8-3)

SOUTHER FLD (AMERICUS)-Use strips only (parked acft).

**TIFTON ARPT NO.4-No longer assigned to Army. Will hereafter be carried as Tifton Mun. Arpt. (9-9) All lgts on prior req. 80,91 oct, sto.,minor engine acft repairs. (Jacksonville chart) (8-7)

TIFTON MUN. ARPT-RADIO: Army twr decomm. (9-13)

★TURNER FLD (ALBANY)-RADIO: Army H fac and twr decomm. (9-9) FLD: Use rnwys only. Rnwys 4C,9R,14C,18L closed. Temp inactive. No facs. (See Special Notice re use). (8-28)

VADA ARPT (BAINBRIDGE)-Closed (cattle on fld). (9-14)

VIDALIA-LYONS AIRFIELD (VIDALIA)-All flight plans to be handled thru Turner Fld. Temp. inactive. No facs. (See Special Notice re use). (4-5)

IDAHO

BENNETT FLIGHT STRIP (ANDERSON DAM)-Avail. for emerg use only. (5-7)

BURLEY ARPT-Use rnwys only (rough, high vegetation). Soft spots on taxi strips. (7-19)

COEUR D'ALENE AIR TERMINAL-Equip. on fld days. (5-10)

**COLLEGE ARPT (BOISE)-ABANDONED. (Boise chart) (8-30)

DUBOIS-RADIO: About Sept 20, S course will be realigned to 332°. (9-4)

GOODING ARPT,new-Use rnwys only - sod unsafe (erosion). (6-20)

GOWEN FLD (BOISE)-Army temp inactive-civil. facs. Use rnwys, taxi strips only shoulders soft. Continuously operated 30 million candle pwr ceilometer 1000' NNW of arpt bcn-avoid looking directly into lgt. (9-13)

IDAHO COUNTY ARPT (GRANGEVILLE)-NE/SW strip under const. (5-14)

IDAHO FALLS ARPT-Use rnwys for taxiing - caution, all acft in landings and take-offs watch for taxiing acft. Equip in area E/W taxiway days.(8-9)

**KELLOGG (Site 29B, Seattle-Helena)-Only 80 oct. (7-13)

MOUNTAIN HOME AAF-Temp inactive. No facs. (See Special Notice re use).N/S rnwy closed. Gravel area W edge approx 20' square soft.

POCATELLO ARPT-6' ceilometer projector in center of grass strip running parallel with Rnwy 5-23 and approx 75' S of rnwy at a point 500' W of taxi strip that intercepts Rnwy 29, lgtd. Equip. on fld days. (6-29)

POCATELLO AAF-Temp. inactive. No facs. (See Special Notice re use).

PRIEST RIVER MUN ARPT-NNE/SSW strip under const. (7-1)

REXBURG ARPT-W side N/S strip at N end washed out. (7-26)

**SAND POINT MUN ARPT-73,80 oct, minor engine and acft repairs. No sto. (7-1)

ILLINOIS

ASHBURN ARPT (CHICAGO)-Avail. lgt acft under 2000 lbs only. Landing fee for heavier acft $2.00 and up. (7-25)

ILLINOIS-Continued

CARTHAGE ARPT-NE/SW, E/W strips unsafe when wet. (4-13)

CHANUTE FLD (RANTOUL)-Ltd parking. (4-25)

CHARLESTON ARPT-Left traffic pattern when wind is from the N or W; right traffic when wind is from the S or E. Unsafe heavy acft (soft). NE/SW rnwy closed (const). (5-20)

★CHICAGO-RADIO: Sept 3, VHF voice fac comm at communications stn. Transmits on and guards 116.1 mcs cont. Stn Class: SBRAZ-VDTX.

CHICAGO ARPT-NE/SW rnwy closed, unlgtd (parking area). Closed to trans mil acft except on off. bus. or in emerg. No Army facs. Army acft use Chicago-Orchard Arpt. Closed to trans Navy acft except on off. bus. or acft containing officers of flag rank.Pilots must register in Terminal Bldg on arvl and check out on dptr. Floodlgts avail. on req. Following landing fees in effect to all non-scheduled revenue producing acft; 30 cents per 1000 lbs or faction thereof of the gross weight of the acft. Minimum charge $2.00 Fee payable at Arpt Supt's Office before take-off. All numerals and letters on Rnwys 13L, 13R lgtd ngts. Hangar under const N side fld just E of NW corner. Ctn when taxiing. Covered ditch adj Rnwys 27L, 31R, mrkd. Ditch on E side Rnwy 36R, mrkd. (9-11)

CHICAGO-HAMMOND ARPT (LANSING)-Surplus Acft Sales Center - parked acft.

CHICAGO-ORCHARD ARPT (CHICAGO)-Closed ngts-no lgts. Ltd svcg and maintenance . (9-10)

CYRIL LEBERT ARPT (LEBANON)-Left hand traffic pattern at 400'. Watch for Scott Fld traffic. (6-22)

GEORGE FLD (LAWRENCEVILLE)-CLOSED (no facs). (5-15)

GLENVIEW NAS-Prior approval required all acft expecting to RON except off.bus. regularly scheduled NATS or NATSPWS flights. Equip. on approaches. Non-radio equipped acft land on mats only. Closed ngts except in emerg or by prior arrangement. (7-8)

**HARLEM ARPT (OAKLAWN)-Only 80 oct. (6-28)

**HILLSBORO ARPT-New fld. 1 mi NE. Elev 630', Lat 39-10-00, long. 89-28-45. 2 strips: 2160' NE/SW, 2450' NW/SE, both 300' wide. Fuel, sto.,minor acft and engine repairs. (Cincinnati chart) (8-23)

INTERSTATE ARPT (DE KALB)-CLOSED. (5-11)

JOLIET ARPT-SITE 22, ST. LOUIS-CHICAGO-Emerg fueling and acft svcg avail.2400 to 0800 on req. (7-18)

LINDLE RUFF FLYING SCHOOL (BEARDSTOWN)-400' from S end N/S strip, 300' from end E/W strip and fld, soft during heavy rains (marked). (7-15)

MARION ARPT-Ext. train. 8 mi radius. Trans pilots use left hand rectangular 600' traffic pattern. NE/SW rnwy closed. During wet weather use black rnwys only. (9-6)

MOLINE ARPT-75' gravel loading mast, 1500' W and 500' S of center line of E/W rnwy guyed with cables, lgtd. 30' gravel plant, 422' due W of SW end NE/SW rnwy, lgtd. Pwr shovels with high boom near both plants. Equip. NW portion fld days. (8-9) Radio stn WQUA erecting 200' twr 2.2 mi NNW. Obst lgtd at top only until completed. (9-1)

PARIS INC. ARPT-3-1/2 mi NNW;RR,hwy E. Lat 39-39-30, long.87-43-15. Elev 740'. 3 strips: 3000' N/S, 1900' E/W, 2700' NE/SW, all 400' wide. Poles SW,S,W. 80,91 oct. (Cincinnati chart) (8-14)

PEORIA ARPT-Const equip on fld days. Use rnwys only. Rnwy obsts mrkd. Concrete pads for cone obst lgts 90' from rnwy ends. Yellow flags over coils of cable. Concrete pads along both sides E/W,NE/SW rnwys 25' from rnwy edges. (7-14)

PROSPERI ARPT (TINLEY PARK)-Use rnwys only. (7-5)

QUINCY ARPT-Extreme W end E/W and NW end NW/SE strips under const. (7-30)

RUBINKAM ARPT (HARVEY)-Fld will be closed 1000-1600 Sept 21 except for 10 min periods after each hr (air show).(8-20) Use only area W of trench. (4-26)

ST. CHARLES ARPT-CLOSED. (4-2)

ST. DAVID ARPT-Closed to all cross-country acft. No svcg avail. N/S strip closed. New arpt under const 6 mi N. (6-13)

**SCHILD FLD (OLNEY)-New fld. 1-1/2 mi E;RR S. 3 strips: 3000' N/S; 1780' NE/SW, 1750' NW/SE. 80 oct. (Chicago chart) (9-4)Info. rec'd too late for inclusion on Flight Planning Charts. NW/SE strip soft in wet weather and after thaws. (9-4)

SMITH AVIATION FLD (ST. ELMO)-Use N/S rnwy only. Equip. on fld. (7-31)

SPRINGFIELD ARPT-Fld and strips soft after heavy rains. Unsafe heavy acft when soft. Closed ngts. (7-18)

UNIVERSITY OF ILLINOIS (CHAMPAIGN)-Air Show Sept 22 - fld closed from 1000-1500, except 10 mins on the hr. Heavy traffic Sept 19, 20. (8-28)

VANDALIA MUN. ARPT-Use only N/S rnwy after heavy rains. (5-10)

WAUKEGAN ARPT-NW corner NW/SE rnwy, W end E/W rnwy unusable, mrkd. (8-16)

**WILL COUNTY ARPT (STEGER)-Maj and minor engine repairs. No sto.,or fuel.(6-28)

WHITE COUNTY ARPT (CARMI)-NE/SW strip rough. Low wires S end fld. (7-22)

YORK TOWNSHIP ARPT (LOMBARD)-Equip. on fld. (8-9)

INDIANA

ATTERBURY AAF (COLUMBUS)-Temp inactive - no facs. (See Special Notice re use).

**ATTICA ARPT-New fld. 2 mi S;hwy W. Lat 40-15, long 87-14. Elev 647'. 2 strips: 2640 x 400' N/S, E/W. 80 oct. (Chicago chart) (8-9)

AUBURN ARPT-Use strips only. Kerosene lanterns supplemented with battery lgts avail. in emerg. (5-10)

BAER FLD (FORT WAYNE)-RADIO: Army ILS (CAA type) temp inop. (9-6) FLD: Temp. inactive. No facs. (See Special Notice re use). Antenna pole obst lgts removed, poles unlgtd. New poles will be erected 3.5 mi SW and lgtd. (5-1)

BENDIX FLD (SOUTH BEND)-Army temp inactive - civil. facs. Equip on fld days. N triangle closed. (8-15)

BLOOMINGTON ARPT-Fresh grading soft when wet. (8-7)

BRIGHTWOOD ARPT (INDIANAPOLIS)-Fld under const. Pilots observe tetrahedron for rnwy direction. Taxi on well mrkd taxi strips and dead rnwys. (4-10)

CHAIN LAKES ARPT (SOUTH BEND)-Avail all acft up to 6000 lbs. Use strips only. (5-23)

COLUMBUS ARPT-Turn off rnwys onto taxi strips after landing. (9-10)

EVANSVILLE ARPT,old-Use rnwys only. Equip on fld days. (6-17)

FORT WAYNE-RADIO: Range will be decomm soon. Fac will be relocated at lat 40-56-20, long. 85-15-00 serving Baer Field. Freq 251 kcs. Ident "FW" (.. - . .--) Courses: 51°,146°,231°,326°. Bear. and dist, sta to Baer Fld: 51°, 3.5 mi. Mag. var: 0 . Control and voice facs of relocated fac will continue temp from Smith Field. (6-8)

**GAMBLE ARPT (HOBART)-73,80 oct. (6-29)

**GARY ARPT-Only 80,91 oct. (6-20)

HULMAN FLD (TERRE HAUTE)-Use rnwys only (sod erosion off rnwys). (8-28)

INDIANAPOLIS-RADIO: Ground Controlled Approach Unit being operated by CAA on exper basis at Weir-Cook Municipal Arpt, between the hrs 0800 and 1600 Mon thru Fri. Unit aligned for approach from the SW on Rnwy 4. Transmits on 212 kcs, 126.18 mcs, receives on 3105,4495,3117.5,6210 kcs, 126.18 mcs. Pilot desiring to make practice runs should make arrangements thru Indianapolis twr, Indianapolis Radio or airline ground sta at Indianapolis, All flights must be otc flight rules prior to starting GCA runs and must remain CFR throughout approach. No run should be made in hooded cokpit unless accompanied by safety pilot. 75 mcs boundary marker using keyed 3000 cycle tone, operating intermittently at SW boundary of arpt. Exper localiser on 108.3 mcs operating intermittently SW end NE/SW rnwy. Exper compass locator at outer marker. Freq. 219 kcs, Ident "ID" Exper FM operating occasionally 10 mi SW fld on localiser course, modulation 3100 cycles, keyed "U". Exper radio range operating intermittently at Avon, Ind, 7 mi NW of arpt on 172 and 194 kcs. (8-9) Sperry exper microwave inst landing loclr located 900' NE of NE rnwy, microwave glide path lctd adj to the CAA glide plath 450' SE of the NE rnwy at SW corner of fld. (9-5)

INDIANAPOLIS ARPT-Heavy acft use rnwys only. Comet around N side fld and park-ing ramp. No crash equip. Mil pilots should register at CAA desk in Terminal Bldg Admin Bldg Lobby, trans acft must register at city desk in Terminal Bldg Lobby. Rnwy 18L-36R closed. Exper Opers: Approach lgt sys on SW approach lane; bndry lgts SW corner, all operating intermittently. Exper rnwy lgts 2-1/2' high along both sides NE/SW rnwy. Exper flights of all types in all weather conditions. 25' pole outside Bndry 500' W of Rnwy 18; 2 bldgs and 22' masts 400' off center line near SW end NE/SW rnwy. 65' twr 10' N CAA hangar; truck and 20' equip 400' NW end NW/SE rnwy 500' W of rnwy center line; truck 20' high NE corner at bndry 500' NW of NE/SW rnwy, all lgtd ngts. 5 lgtd 131' twrs 6 mi NW. Tetrahedron being installed in triangle between NE/SW, NW/SE and E/W rnwys. 10' bldg at middle of W bndry, lgtd. (8-2)

**LA FONTAINE ARPT-New fld. 5 mi NE;hwys N,W. Lat 40-43, long. 85-40. 2 strips: 1900' N/S, 1800' NE/SW, both 300' wide. 80 oct, minor engine, acft repairs, sto. (Chicago chart) (9-10)This data rec'd too late for inclusion on Flight Planning Charts.

LA PORTE CITY ARPT (LA PORTE)-NE/SW strip closed (const), unlgtd. (3-14)

MADISON AAF-JEFFERSON PROVING GROUNDS (MADISON)-CLOSED TO ALL ACFT.

**MAPLETON ARPT (SEYMOUR)-New fld. 3 mi E. Lat 38-57, long. 85-15. 3 strips: 1800 x 100' NE/SW; 1500 x 100' N/S; 1400 x 150' E/W. 80 oct, minor acft, engine repairs. No sto. (Cincinnati chart)(9-11) Info rec'd too late for inclusion in Flight Planning Charts.

McCOMB ARPT (DECATUR)-Closed when wet. (5-10)

MICHIGAN CITY ARPT-Use only mrkd strips, taxiway-bal fld unsuitable for landing and taxiing. (7-27)

**MONTICELLO ARPT (CHALMERS)-3 mi ENE;RR,hwy W. Lat 40-40-45, long. 86-48-45. Elev 650'. 4 strips: 2600' NNE/SSW, 1875' NW/SE, 1320' N/S, E/W, all 100' wide. 80 oct, sto. (Chicago chart) (8-14)

MORGANTOWN-RADIO: FM on S course of Indianapolis Range will remain in oper on exper basis until Nov. 1.

MUNCIE ARPT-1 rnwy 3160 x 100' NW/SE. (8-31)Hangar under const along S bndry. (8-31)

**NEW CASTLE WESTERN ARPT (NEW CASTLE)-Revised data: 2-3/10 mi NW. Lat 39-57, long. 85-24. Elev 1080'. 3 strips: 2000' N/S; 1300' E/W; 2900' NE/SW, all 120' wide. 80 oct. (Cincinnati chart) (4-30)

**PERU ARPT-2 strips: 3800 x 500' N/S, 1800 x 600' E/W. 80 oct, minor engine and mai acft repairs. (6-28) Confine all opers to rnwys unless strong cross wind conditions exist. (5-20)

PLYMOUTH ARPT-E/W strip avail. NNW/SSE strip avail with ctn (const).(7-3)

PURDUE UNIVERSITY ARPT (LAFAYETTE)-Due to heavy local traffic, all trans acft should not turn in middle of fld after landing, but continue to taxi straight to end of fld then taxi to within 100' of bndry to hangar. Scattered pools of water on SW end NE/SW rnwy in wet weather. (5-22)

SKY HAVEN ARPT (BEDFORD)-Use rnwys only-shoulders soft.Left traffic pattern. Const areas mrkd. (8-27)

★SOUTH BEND-RADIO: VHF voice fac comm at communication stn Sept 4. Transmits on and gds 116.1 mcs. cont. Stn class SBMRAZ-VDT.

STARKE COUNTY ARPT (KNOX)-N/S strip soft. (7-25)

STOUT FLD (INDIANAPOLIS)-Temp inactive. No facs. (See Special Notice re use).

INDIANA-Continued

**WALESBORO ARPT(SEYMOUR)-Name changed to Columbus Arpt and will hereafter be carried under Columbus. 80 oct, minor engine and acft repairs. No sto. (Cincinnati chart)(8-27). Info rec'd too late for inclusion on Flight Data pages and Flight Planning Charts.

WHITTENBERGER ARPT (WABASH)-Use right traffic in landing S or W; left in landing E or N. No-wind conditions land to W. (8-16)

IOWA

AUDUBON AIRWAYS ARPT (AUDUBON)-Fld rough.

**BURLINGTON ARPT-80,91,100 oct. (9-14) Info rec'd too late for inclusion on Flight Data pages.

CEDAR RAPIDS ARPT-Use rnwys, taxi strips only. (6-24)

CHAPMAN FLD (WATERLOO)-Bcn, bndry, obst lgts inop. Soft in wet weather.(7-26)

COUNCIL BLUFFS (Site O, Omaha-Chicago)-Site will be discont and relctd soon 1-1/4 mi E of the E end of the E/W rnwy at Omaha Arpt, Nebr. (6-20)

CRAM FLD (DAVENPORT)-Const. Fld rough, equip on fld. (3-21)

**DES MOINES ARPT-No army facs. (9-9) Const. Entire area off rnwys E of N/S rnwy, NW/SE rnwy, E/W taxi strip closed. Use rnwys only. Equip on fld. Mil acft report to Army hangar. Army temp inactive-civil. facs. (9-9)

HUNTER FLD (CEDAR RAPIDS)-Use rnwys only (6-22)

**IOWA CITY ARPT-3 rnwys: 4300' N/S; 3900' NW/SE; 4000' E/W. Only bcn, obst lgts. (Des Moines chart)(9-10) Avail days only. Use rnwys, taxi strips only. Sod adj rnwys, taxi strips freshly seeded, graded. (8-30)

MASON CITY-RADIO: MH fac being relctd at lat 43-10, long 93-20. (9-16)

MASON CITY ARPT-Crew on SE end NW.SE rnwy 0800-1700. (8-22)

OTTUMWA NAS-Equip on fld. Only 73 oct avail. (7-25)

SIOUX CITY ARPT-Blinding 20 to 30 million candle power ceilometer 1000' N of Admin Bldg. Facs avail 0800-1700. (8-21)

KANSAS

**ANTHONY ARPT. SITE 24, AMARILLO-KANSAS CITY-73,91 oct. (9-8)

ATKINSON ARPT (PITTSBURGH)-CLOSED (const). (8-15)

BEECH ARPT (WICHITA)-Use rnwys only during damp weather. (7-1)

BLOSSER FLD (CONCORDIA)-Equip on fld intmtly. (7-13)

COFFEYVILLE ARPT-Use rnwys only.(5-29)

DODGE CITY ARPT-Blinding 25 million candlepower ceilometer projector installed 1000' NW of Admin Bldg. E/W rnwy closed. (7-30)

DODGE CITY AAF-Temp inactive. No facs. (See Special Notice re use).

DOWNS ARPT-When taking off to the S or E use right traffic. (6-15)

FAIRFAX FLD (KANSAS CITY)-Use rnwys only. (3-12)

FORT RILEY-AA firing conducted immediately N of Marshall Range Sta.

GARDEN CITY AAF-Acft near rnwys and on ramp. Ctc Garden City Radio for landing instructions ngts. Only N/S rnwy lgts avail. Only 100 oct avail. Use extreme ctn in ngt landings, taxiing. No svcg 1700 to 0800. (8-19)

GOODLAND ARPT-Rnwy sides soft. Use center of rnwys only. (6-22)

HERINGTON AAF-Temp inactive. No facs. (See Special Notice re use).

HUTCHINSON MUN. ARPT-Heavy acft use rnwys only. (6-20)

★HUTCHINSON NAS-RADIO: Navy twr now oper 0800 to 2400 daily, Mon through Fri. Twr facs or clearances avail during off hrs and over Sat and Sun on one hrs notice through Hutchinson Radio. (9-15) These data rec'd too late for inclusion in Air Navigation Radio Aids. FLD: Use rnwys only. N,S mats closed. (8-26)

INDEPENDENCE AAF-Only N/S rnwy rear ramp avail. Closed ngts. (6-22)

LAWRENCE ARPT-Center fld, taxi areas unusable, soft. Use rnwys only in dry weather. (8-16)

LLOYD FLD (FT. SCOTT)-Use in emerg only (vegetation). (6-24)

MARSHALL FLD (FT. RILEY)-For AA firing see Ft. Riley, Kans. Use rnwys, taxi strips, ramps only. Soft shoulders off rnwys. Obst lgts inop. 150' twr atop 1200' hill. (4-3)

KANSAS-Continued

★OLATHE NAS-RADIO: Navy GCA sys now operates cont during flight opers. (9-9) FLD: Closed 1800 to 0800 - flights desiring landing during these hrs must notify opers before 1600. (6-13)

OLATHE OLF NO. 2-Use in emerg only - no facs.

OLATHE OLF NO. 4-Use in emerg only - no facs.

OLATHE OLF NO. 7-Use in emerg only - no facs.

OLATHE OLF NO. 9-Use in emerg only - no facs.

SHERMAN FLD (FT. LEAVENWORTH)-Left traffic on Strips 12, 15; right traffic on Strips 30, 33. Use strips only. Strips soft when wet. 10' dike connects N end N/S strip. Closed to VHB type acft. (7-8)

SMOKY HILL AAF (SALINA)-RADIO: Army DF (HF) and (VHF) stas temp inop.(6-24) Army ILS (CAA type) temp inop. (6-25) FLD: E/W rnwy closed. (6-19)

TOPEKA-Inst flying radio range ngt, day. Call Topeka Radio at least 20 mi out before flying range.

TOPEKA-RADIO: VHF range will be comm soon at lat 39-08-24, long 95-33-06. Freq 109.1 mcs, ident "PK" (. - - . . - . -) Visual courses: 72°,252°; Aural courses: 162°,342°; Blue sector to N of visual courses, yellow sector to S; "N" sector to E of aural courses, "A" sector to W of aural courses. Bear and dist stn to Topeka Arpt: 211°, 6 mi. Mag var 9° E. Stn class will be: VARW. (9-4)

WALKER AAF (HAYS)-Temp inactive. No facs. (See Special Notice re use). Trucks on NW/SE rnwy. (5-23)

WICHITA ARPT-CTC lgts all rnwys under repair. Avoid taxiing over ctc lgts. Closed to trans acft without radio. Stay on concrete, sod unsafe. Equip on fld days. (8-27)

KENTUCKY

BLUE GRASS FLD (LEXINGTON)-Use rnwys only. (6-24)

BOWMAN FLD (LOUISVILLE)-CLOSED TO B-26 AND AT-23 ACFT. Heavy acft use rnwys only. Army temp inactive-civil facs. Trans mil acft use Godman Fla. (6-28)

★CAMPBELL AAF (HOPKINSVILLE)-RADIO: Army twr now operates 0800 to 1700. (9-17) FLD: Opers, engineering closed 1700 to 0800. No 100 oct. (6-25)

★GODMAN FLD (FT. KNOX)-RADIO: Army twr now operated 0600 to 2400. (9-2) Army range now operating reliably, maximm power only 25 watts. Multiples on S course about 15 mi out. (6-24) FLD: CLOSED TO ALL HEAVY AND VERY HEAVY BOMBARDMENT TYPE ACFT EXCEPT IN EMERG. Oper office open 0800 to 1700 for clearance purposes only. Ngt lgtng fac avail upon 12 hr prior notice.(3-24)

STANDIFORD FLD (LOUISVILLE)-Bndry, rnwy lgts inop. Tetrahedron unlgtd, free swinging. (5-25)

LOUISIANA

BARKSDALE FLD (SHREVEPORT)-RADIO: AACS, ground to air sta temp inop. (3-25) Army ILS (CAA type) temp inop. (6-4) FLD: Liaison type acft land Rnwy 14R-32L. Exten training - heavy traffic. (7-22)

COTTON VALLEY AIRPORT-E/W strip closed. (11-20)

CROSS LAKE ARPK (SHREVEPORT)-CLOSED (Const, equip all strips). (4-29)

DE RIDDER AAB-Temp inactive. No facs. (See Special Notice re use).

DONALDSONVILLE (Site 26, Houston-New Orleans)-Bcn, fld lgts inop until approx Sept 24. S end N/S strip being shortened 600'. Equip on fld. (9-9)

EAST BATON ROUGE PARISH ARPT (BATON ROUGE)-Avoid SE corner fld, marked with white flags.

HOUMA NAS-LTA-Twr operates daylgt hrs on week days only for acft in connection with Bureau of Aeronautics Storage. Closed to all other acft except in emerg. No fuel. (7-22)

IBERIA PARISH ARPT (NEW IBERIA)-Use rnwys, taxi strips; sod shoulder parallel rnwy and taxi strips avail lgt acft only. Rnwy lgts inop. (3-16)

JENNINGS ARPT-Use strips only in wet weather. Smudge pots avail on prior arrangements. Unlgtd pole lines S and E side fld. (5-17)

LAFAYETTE ARPT-Avail days only. Use rnwys only. (7-4)
★LAKE CHARLES-RADIO: W course realigned to 70°. Courses ground-checked only. (9-13)
LAKE CHARLES AAF-New type mercury arc 30 million candle power ceiling lgt installed sta WBAS. Operates during cloudy conditions: Pilots cautioned against looking directly into lgt. No 91 oct. (7-19)
MOISANT ARPT (NEW ORLEANS)-Use rnwys only ngts. Sod area 200' each side rnwys avail lgt acft days only. Closed to all acft not equipped with 2-way radio except in emerg. 171' unlgtd steel derrick being erected approx 15 mi SSE in Lake Salvador. Rnwy, range and fld bndry lgts inop. (9-12)
★MONROE-RADIO: Sept 16 range freq changed to 359 kcs. Courses ground-checked only.
MONROE ARPK, new-Arpk 1/2 mi SE of old Monroe Arpk unsafe (soft). (9-12)
NATCHITOCHES ARPT-Taxi to right. (4-23)
NEW ORLEANS ARPT-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. Obst lgts on S pole line inop. Equip on fld days. Non-radio equipped acft use extreme ctn. Closed to all Army acft except primary basic and advanced (not inclg converted tactical type) trainers, utility cargo, C-46, C-47 series, C-60, C-64, liaison acft. helicopters and autogyros. (7-20)
NEW ORLEANS NAS-Closed to naval acft exceeding 9000 lbs. Equip on all rnwys. Fld on positive control. (9-9)
RUSTON ARPT-Strips under const. Avail lgt acft with ctn. (5-2)
SELMAN FLD (MONROE)-Closed to all acft except scheduled airlines. No svcg facs. Obst lgts atop twr, hangars, flood lgt poles W side fld inop. Ngt lgtng facs not avail trans acft. Equip on fld. (9-4)
SHREVEPORT ARPK, INC.-Const on fld. Land S of new hangar. Equip on fld days. (6-18)
SHREVEPORT ARPT-Use rnwys only. Two 120' derricks 1/2 mi SW fld and one 120' derrick 1-1/4 mi S within approach zone N/S rnwy lgtd. (8-7)
TURNER FLD (MONROE)-W half N/S strip soft - E half avail. (5-25)

AUGUSTA ARPT-Bcn operating intmtly. Obst lgts atop poles 400' N of ENE/WSW rnwy, and on bldgs S side Admin Bldg inop. Equip on fld days. (9-5)
★BRUNSWICK NAS-RADIO: Bdcast fac of Navy range discont Sept 3. Stn class:
•• SRAZ.. FLD: No lgts or svcg. (8-30) Closed to all but off. flights (caretaker status - no facs).
DOUGLAS FLD (BRUNSWICK)-Right traffic in use when wind is from S. (10-22)
DOW FLD (BANGOR)-Temp inactive. No facs. (See Special Notice re use). E/W rnwy closed. Use concrete portion fld only. Closed 1900 to 0700. (7-1)
**GREENVILLE ARPT-Bcn 36" rot, range, obst lgts. 80 oct. (Lewiston chart)(6-12)
HOULTON ARPT-Closed to all acft except scheduled airlines-all other acft land by prior permission from Resident Engineer, Tlfo #2211. (8-28)
LEWISTON-AUBURN ARPT (AUBURN)-Safety strips unsafe heavy acft-use rnwys. (7-20)
★MILLINOCKET-RADIO: Correct bear and dist, stn to Millinocket Arpt: 292°, 1.6 mi. (9-12) Auto range monitor sys temp inop. (5-10)
MILLINOCKET ARPT-NW/SE rnwy closed from intersection to NW end. (6-13)
MORRIDGEWOCK ARPT-CLOSED - use in emerg only.
**OLD TOWN ARPT-80 oct, sto, minor engine and acft repairs. (6-11) Use rnwys only - safety strips rocky. Lgts inop. (7-10)
PORTLAND ARPT-E/W rnwy closed ngts (ctc lgts inop). Equip on fld days.(6-21)
PRESQUE ISLE AAF-RADIO: Army DF facs on standby status; services avail within 1/2 hr upon req over air to ground or point to point facs. (3-4)
RAYMOND'S ARPT (PHILLIPS)-New NW/SE rnwy parallel to old NW/SE rnwy under const. Equip on fld. (5-19)
**ROCKLAND ARPT-80,91 oct, major engine and acft repairs. Land
SCARBORO ARPT-Avail lgt acft only. Use N/S strip. (7-22)

ANDREWS FLD (CAMP SPRINGS)-No 91 oct. (5-31)
**BALTIMORE MUN. ARPT-Correct elev 14'. (Washington chart)(8-30) No crash equip. Use rnwys, taxi strips only, other areas soft. 2 cranes 20 and 401 high operating approx 250' S, SW on Rnwys 32,27; 80' crane 800' N of N/S rnwy, mrkd. 65' boom on floating derrick on Colgate Creek adj fld, mrkd-lowered, lgtd ngts. Const. Equip on fld. (9-10)
BELTSVILLE OLF-Closed to civil acft except in emerg. (7-31)
EDGEWOOD ARSENAL FLD-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS THIS STA OR IN EMERG OR PRIOR PERMISSION FROM CO. Closed Sat and Sun. Operates Mon thru Fri 0800 to 1600. Approach fld N of Penn RR. High alt bombing E and S. Stay on concrete. (2-20)
GLENBURNIE-WHIPP ARPT (GLENBURNIE)-Avoid flagged area (equip). (5-22)
HAGERSTOWN ARPT-Acft parked on hangar and factory apron, also along W bndry of fld just W of the N end of the N/S rnwy and N of the W end of the E/W rnwy. Use ctn in landing and taking-off in area off rnwys. W 200' of E/W rnwy under const, bal rnwy avail. Bcn inop. (8-19)
LEE ANNAPOLIS ARPT (ANNAPOLIS)-N/S rnwy closed (const). NE/SW rnwy and black-topped taxiway avail. E/W strip not suitable for acft heavier than twin-engined type. (5-21)
MARTIN ARPT (BALTIMORE)-First 1500' Rnwy 14 closed. Equip all rnwys. (9-10)
MEEKINS NECK-RADIO: FM signals on NE course of Patuxent River Navy range, weak. (1-12)
PATUXENT RIVER NAS-Taxi strips adj and parallel to Rnwy 13-31 between Rnwys 2-20, 6-24 closed. Tetrahedron inop. Ditches, equip adj taxiway parallel to Rnwy 2-20, ditches adj Rnwy 9-27, mrkd. Equip on fld. (9-5)
PHILLIPS FLD (ABERDEEN)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. Equip on fld. Ltd svcg. No maintenance or RON. Closed Sats, Suns. Rnwy 4-22 closed. Approach fld from N only, fly heading of 200° from Aberdeen to fld. Avoid area 1500 yds S of Fld; firing up to alts of 25,000'. No 91 oct. Closed to very heavy type acft. (7-30)
SCHROM ARPT (GREENBELT)-SE end NW/SE rnwy under const, marked. Use only rnwy pavement and taxi strips. (3-16)
WEBSTER FLD (PRIEST POINT)-Blue and white checkered flag flown on Opers Bldg during daylgt hrs when twr not manned. (2-6)

BARNES ARPT (WESTFIELD)-Oper of arpt bcn days only indicates scheduled airlines in vcnty arpt. Acft proceed with ctn when bcn lgtd. Ctc Westfield Radio for lgts. (8-4)
**BEVERLY CGAF ARPT-Bcn, 24", course, range, ctc, obst lgts. 80,91 oct. (Boston chart)(6-26)
BOSTON-RADIO: Soon FM will be comm at Dedham, Mass located at lat 42-15-59, long 71-10-07, on SW course 14.4 mi from range sta. Ident, two dots, three dashes (. . - - -) Bear and dist, range sta to FM: 238°, 14.4 mi. When Dedham FM is comm, ident of Franklin, Mass FM will be changed to three dots, three dashes (. . . - - -)(8-6)
BOWLES ARPT (AGAWAM)-High grass. Ltd maintenance. (6-6)
BROCKTON ARPT-E/W strip closed (const). N/S strip under const-avil with ctn. (6-4)
BROOKFIELD ARPT-Rough and steep. (7-22)
**CAPE ANN-Large over-water aerial gunnery range approx 5 mi E has been revised as follows: bounded on the N by lat 43-00, S by lat 42-40; E by long 70-15; W by long 70-30.

MASSACHUSETTS-Continued

CAPE COD BAY-Wire cable 35' above high tide extending between wooden twr and fish processing plant has been established approx 5 mi SE Provincetown at lat 42-01-00, long 70-05-30, extending 1000' seaward from shore of Cape Cod Bay.

**EDGARTOWN ARPT-4 strips: 2500' N/S, 3000' NE/SW, 2800' E/W, 2000' NW/SE, all 500' wide. 80 oct, minor engine and acft repairs. No sto. (Boston chart) (6-26)

**FALMOUTH ARPT-New fld. 2-1/2 mi NE. Elev 40'. Longest strip: 1800'. 80 oct. Sto, minor acft and engine repairs. (Boston chart) (9-5)

**FALMOUTH ARPT-Loc. 6-2/5 mi NNE - ABANDONED. (Boston chart) (9-5)

GRAFTON ARPT (NORTH GRAFTON)-Avail lgt acft. Heavy acft use ctn. Avoid W, SW portions of fld. (6-15)

**GREAT BARRINGTON ARPT-80,91 oct,sto, maj engine and acft repairs. (6-6)

LAWRENCE ARPT-At ngt use rnwys for landing and taking off. (3-23)

**LOGAN ARPT (BOSTON)-Rnwy 7-25, open, 4000 x 200'. (8-3) Closed to B-17 and all Army tricycle gear type acft - use Bedford AAF. Army temp inactive - civil facs. Avail. only radio-equipped acft. Range lgts inop. Equip. on fld. Mercury arc vertical beam NW end new temp NW/SE rnwy-used intmtly day, ngt. Floodlgts and wind tee rmvd. All pilots of acft except mil and scheduled air carriers must register at office of arpt manager. Equip. on perimeter of fld. New 5900' Rnwy 15-33 and Rnwy 4-22 avail. Rnwy 16-34 closed. NE 100' Rnwy 7-25 unsafe. Ditches N side Rnwy 15-33 midway between ends, mrkd. (8-30)

**MANSFIELD ARPT-80 oct, sto. (9-5)

MYRICKS ARPT-Wires on S end N/S strip. (7-13)

OTIS NAAS (FALMOUTH)-Use in emerg only (caretaker status - no facs).

PITTSFIELD ARPT-SITE 3B, ALBANY-BOSTON-Land acrdg to wind sock. (8-27)

**ROWLEY ARPT-ABANDONED. (Boston chart) (9-5)

SOUTH WEYMOUTH NAF-50' lgtd antenna pole 2200' from S edge landing mat.(6-25)

**SPRINGFIELD ARPT-80,91 oct. (6-6) Lgts inop. (6-24)

★SQUANTUM NAS-RADIO: Navy range now guards 3105,4495,6210 kcs cont, 142.74 mcs during flight operations. (9-12) FLD: Unlgtd 1000' boom on lighter at bndry due W between Rnwys 2 and 8. Equip. at bndry. (8-14)

STEVENS FLD (NORTH ADAMS)-Avail only lgt acft. (6-27)

★WESTOVER FLD (CHICOPEE FALLS)-RADIO: Army GCA sys avail. upon req when ceiling below 3000' and/or visibility less than 3 mi. (8-30) Acft approaching Westover Fld under IFR conditions will proceed to Westfield range to hold. Upon receiving permission from Westover Fld Range acft will be cleared to Westover Range at 3000' to contact Westover Twr for permission to use standard letdown procedure as published in TO 08-15-3 with the following exceptions: Weather minimums at Westover Fld for trans acft under this procedure will be 2500' and 3 mi day and ngt. Procedure using Westfield Range and SCS-51 approach and Rnwy 6 at Westover will remain in effect only for Westover based acft, MAT acft and contract carrier airline acft only. (8-22) FLD: No maintenance for trans mil acft; acft requiring svcg other than routing, gas and oil should not land this fld. (7-31)

MICHIGAN

ABRAMS ARPT (GRAND LEDGE)-Hangar being const. N/S, E/W strips newly sodded. (6-20)

ADRAIN CITY ARPT (ADRIAN)-W side fld being graded (stakes, flags). Extreme stn in landing all strips except NE/SW strip. (3-18)

**ALTERNATE ARPT (ROSCOMMON)-Name changed to Roscommon Arpt. (Green Bay chart) (6-25)

ANN ARBOR ARPT-Use rnwys only. Taxi strips being widened, apron and parking areas being enlarged. Equip. on fld. (6-14)

MICHIGAN-Continued

**AUSTIN LAKE ARPT (KALAMAZOO)-80,91 oct. (6-24)

BAKER'S FLD (PORT HURON)-Use strips only. (6-25)

★BATTLE CREEK-RADIO: VHF voice fac comm at communication stn Sept 12. Transmits on and gds 116.1 mcs cont. Stn class: BMLZ-VDT.

BISHOP ARPT (FLINT)-Use rnwys only when turf soft. Lgt acft use turf adj left side of concrete. Unmrkd acft parked on fld within 500' of bldgs. 160' water twr under const 1-1/4 mi NE, unmrkd. (8-15)

**CALVIN CAMPBELL MUN. ARPT (INDINA RIVER)-4/5 mi SE; RR,hwy W. Lat 45-24-30, long 84-36-00, Elev 602'. 2 strips: 1800' N/S, 2000' E/W, both 250' wide. Pole line N; trees E,W,S. (Green Bay chart) (6-24) Emerg use only. (6-24).

CAPITAL CITY ARPT (LANSING)-Use only rnwys, new N/S strip. Strip closed ngts. Equip. on fld days-acft parked W side fld E of apron. (6-20)

**CITY ARPT (SOUTH HAVEN)-4 strips: 2400' N/S, NE/SW; 2600' E/W, 3000' NW/SE, all 300' wide. (6-25)

DETROIT CITY ARPT-Equip. on landing area days. Inbound acft required to have radio receivers. (7-12)

DETROIT NAS-Use rnwys only. Approach fld from SW. Left traffic pattern 1594' MSL, 1000' actual. Closed 2200 to 0700. Rnwy 9-27 closed. Equip. on fld days. All rnwy lgts inop. (8-22)

DR. HAINES FLYING FLD (THREE RIVERS)-Sides and ends of strips soft. (5-10)

EMMET COUNTY ARPT (PELLSTON)-Avail. all acft days. (5-3)

FITCH H. BEACH ARPT (CHARLOTTE)-Caution on taxi strips. (5-10)

FOED ARPT (DETROIT)-CLOSED. Avail emerg use only. Use rnwys only. (8-14)

GLADWIN ARPT-Hangar under const NW corner of fld. (8-27)

**GOGEBIC COUNTY ARPT (IRONWOOD)-Correct elev 1246'. (Duluth chart)

**GROSS ILE-Caution area within the following described area is now being activated: beginning at lat 40-06, long 83-10; due W to long 83-45; WSW to lat 41-53, long 85-00; S to lat 41-46; E to long 83-30; NNE to point of beginning. (9-12)

**HILLSDALE ARPT-73,80 oct, minor engine and acft repairs. No sto. (6-24)

JAMES CLEMENTS ARPT (BAY CITY)-Closed ngts. Heavy acft use rnwys only.(7-20)

JEWETT ARPT (MASON)-Strips mrkd with yellow mrkers. Plowed areas unusable. (rough). (7-3)

KELLOGG FLD (BATTLE CREEK)-Equip. on fld. (6-2)

KINROSS AAF-Temp inactive. No facs. (See Special Notice re use).

**LAKE VIEW ARPT-80 oct, sto, major engine and acft repairs. (6-25)

LAPEER ARPT-Hangars under const. Use strips only. E/W,N/S strips being widened, (7-13)

**LINDBERGH ARPT (KALAMAZOO)-80,91 oct. (6-24) Avail. ngts in emerg. All landings made in accordance with wind tee lctd midway between NW end NW/SE rnwy and N end N/S rnwy. (6-27)

MACKINAC COUNTY ARPT (ST IGNACE)-Trucks, equip on SE side fld. (6-25)

**MARKS FLD (LAWTON)-73,80 oct, sto, minor engine and acft repairs. (6-25)

McKINLEY ARPT (FRASER)-Closed except to lgt acft in dry weather, soft.(4-26)

MOUNT PLEASANT ARPT-Strips soft in wet weather. (3-16)

MUSKEGON COUNTY ARPT (MUSKEGON)-Use rnwys only (rough). (4-26)

OSCODA AAF-Use rnwys, taxi strips only. Temp inactive. No facs. (See Special Notice re use).

OTSEGO COUNTY ARPT (GAYLORD)-Const-usable with ctn. (5-16)

**PACKARD MOTOR PROVING GROUNDS ARPT (UTICA)-ABANDONED. (Detroit chart)(6-25)

PRICKETT FLD (SIDNAW)-Unusable - under const. (6-25)

RACO AAF-Temp inactive. No facs. (See Special re use).

ROMULUS AAF-RADIO: Army ILS (CAA type) less glide path, inop. (8-30)

SAGINAW ARPT-Constructing new hangar S side of fld. (8-26)

ST. CLAIR COUNTY ARPT (PORT HURON)-Use strips only. (5-22)

**SAGATUCK-DOUGLAS ARPT (DOUGLAS)-New fld. 2 mi S; hwy W. Lat 42-37, long 86-12. 2 strips: 2500' E/W, 2600' N/S, both 300' wide. 73 oct.(Milwaukee chart) (8-30)

SAULT STE MARIE-RADIO: Soon sta latn marker will be comm. Stn class will be SMRNZ-DT. (7-12) FLD: Loose gravel on N/S rnwy. Use rnwys only. (6-15)
**SCHOOLCRAFT COUNTY ARPT (MANISTIQUE)-Correct elev 678'. (Green Bay chart) (6-25)
STINSON ARPT (WAYNE)-Closed to trans acft. Const sides N/S rnwy. (7-10)
**THE TIMBERS SKY CAMP ARPT (SOUTH BRANCH)-Elev 950'. (Green Bay chart) (6-25)
**TRAVERSE CITY-RADIO: Range flight-checked, courses correctly aligned.(9-11) FLD: 80,91 oct, sto, major engine and acft repairs. (6-25)
TWIN CITY ARPT-ROSS FLD (BENTON HARBOR)-Use rnwys only (shoulders, fld soft after heavy rains), marked. (6-26)
WASHTENAW ARPT (ANN ARBOR)-Use rnwys only. Avail days only. (8-14)
★WILLOW RUN ARPT (YPSILANTI)-RADIO: MH fac operated by FCA operates cont, this corrects "Airman's Guide" Vol 1, No. 8. (9-16) FLD: Equip on fld. Trucks on NE/SW taxi strip. (6-15)
**WINGS ARPT (UTICA)-73,80 oct, maj engine and acft repairs. No sto. (6-25)
YPSILANTI ARPT-Use strips only. (4-1)

MINNESOTA

ALEXANDRIA-RADIO: Range flight-checked Aug 31, courses correctly alighed. FLD: New ramp being const adj present ramp. (7-12)
APPLETON ARPT-Use rnwys, taxi strips only. (6-26)
BENSON ARPT-Only NW/SE strip avail, bal fld under const. (6-16)
DECKER ARPT (AUSTIN)-Acft over 3500 lbs use caution. (6-28)
DETROIT LAKES ARPT-CLOSED (const). Will be avail. soon. (5-24)
FARIBAULT ARPT-Closed to all acft weighing over 5000 lbs. (5-16)
FERGUS FALLS ARPT-Temp closed (const). (6-17)
**FLEMING FLD (SOUTH ST. PAUL)-1 asphalt landing mat, 1500' allway; 1 sod landing mat, 1500' allway. (5-17)
FLYING CLOUD ARPT (MINNEAPOLIS)-Const. (12-17)
MANKATO ARPT-Use strips only. (5-16)
MINNEAPOLIS-Soon lgt atop Foshay Twr will be discont perm. (7-16)
ORTONVILLE ARPT-Temp closed (const). (6-20)
PARKS RAPIDS ARPT-Temp closed (const). (6-17)
ROCHESTER ARPT-Equip. on infld. Tetrahedron free swinging. SW 800' NE/SW rnwy closed (repairs). (7-30)
ST. PAUL ARPT-Use rnwys, taxi strips only. (8-1)
THIEF RIVER FALLS ARPT-Const. Fld closed to hvy acft. Portion old E/W rnwy. most of N/S rnwy avail lgt acft only. (8-27)
UNIVERSITY OF MINNESOTA ARPT (NEW BRIGHTON)-E/W strip rough. (5-15)
VICTORY ARPT (MINNEAPOLIS)-Surplus Acft Sales Center - parked acft.
**WASECA ARPT-80 oct. (6-17)
WHITNEY MEMORIAL ARPT (ST. CLOUD)-Ctn, glider opers. (6-19)
WILLIAMSON-JOHNSON ARPT (DULUTH)-Closed ngts. (8-1)
WOLD CHAMBERLAIN FLD (MINNEAPOLIS)-RADIO: Army DF sta oper temp suspended. (2-14)FLD: Crane with 100' boom operating NE side fld days, mrkd. Lgt acft use grass areas; heavy trans acft use rnwys. Foreign Clearing Stn for Canada for "Project Musk-Ox" Flights; Clearance to be issued by AAF Flight Service Center. Equip both sides N/S rnwy 0800 to 1600. Bldg being const 400' E of N/S rnwy and 1000' N of S end N/S rnwy, mrkd. (9-10)
WORTHINGTON ARPT-New fld 1/2 mi ENE unusable. (6-22)

MISSISSIPPI

AUGUSTINE FLD (JACKSON)-Use strips only - parked acft.
★COLUMBUS AAF-RADIO: Army range and twr decomm. (9-5) FLD: Temp inactive. No facs. (See Special Notice re use) Use rnwys only. (8-19)
**FLETCHER FLD (CLARKSDALE)-80,91 oct,sto,major engine,acft repairs. (8-29)

MISSISSIPPI-Continued

★GREENWOOD-RADIO: Sept 3, VHF voice fac comm sta transmits on and guards 116.1 mcs cont. Stn class: [illegible]-VOT. (9-9)
GREENWOOD ARPT-Use rnwys only - sodded portion soft. (6-28)
GRENADA ARPT-Civil. facs. NE/SW rnwy closed. Ltd svcg. Avoid flying over area directly off SW corner. Entire sod fld avail. (5-27)
GULFPORT MUN ARPT-Closed ngts. Fld lgts inop.
JACKSON-RADIO: Sept 16, range voice fac temp inop. Courses ground-checked only.
★JACKSON ARPT-RADIO: CAA twr now gds 3105,4495,6210,3117.5 kcs, 126.18, 118.7,131.9 mcs. (9-15) FLD: Rnwys 16L-34R, 2-20 open to lgt acft only. Bndry lgts NW end Rnwy 11, SE end Rnwy 34 discont. Red guide lgts installed 100' from Rnwy 11-29. (8-14)
JACKSON COUNTY ARPT (PASCAGOULA)-Trans acft use rnwys only - drainage grills under grass. (5-17)
KEESLER FLD (BILOXI)-Use rnwys only. Floodlgts avail on req. Ngt opers rstd to acft with 2-way radio. 20' boom NE corner NE/SW rnwy, mrkd. (5-6)
**KEY FLD (MERIDIAN)-Ctc lgts avail on prior req. (9-10) Radio Stn WTOK erecting 180' twr 3 mi NE, lat 32-22-46, long 88-40-04. (9-7)
LAUDERDALE CIVIL ARPT (MERIDIAN)-Cattle on fld. (6-6)
LAURAL AAF-Army temp inactive - civil facs.
McCOMB ARPT-W 1/3 of E/W rnwy unusable. (5-27)
WINONA ARPT-Use N/S strip only. (3-25)

MISSOURI

BAILEY'S AIRPARK (CHILLICOTHE)-NE/SW strip usable in dry weather only.(5-4)
CHILLICOTHE (Site 7, Kansas City-Chicago)-Use rnwy only-sod areas soft.(9-4)
COLUMBIA ARPT-Equip. on fld days. Heavy student traffic. Ngt flying 3 mi radius fld. Sod at rnwys sides soft when wet. Traffic pattern 800' on downwind leg. Blinding 20 to 30 million candle pwr ceilometer 1000' E of rot. bcn. 200' twr being const 1 mi SE, temp obst lgtd. (8-29)
FULTON ARPT-N/S rnwy closed to heavy acft. (5-24)
HARRIS FLD (CAPE GIRARDEAU)-Use strips only - parked acft.
HARVEY PARKS AIRPORT (SIKESTON)-Use rnwys only - parked acft.
INDEPENDENCE ARPT-N/S strip avail., bal fld closed (grading). (6-25)
JEFFERSON CITY ARPT-E/W, N/S strips avail. lgt acft only (sod soft when wet). NE/SW strip avail. twin-engine acft not exceeding weight of C45-C78.(5-11)
KANSAS CITY ARPT-CLOSED TO ALL ARMY ACFT EXCEPT IN EMERG-USE FAIRFAX FLD. Equip. on fld. Floodlgts on req. Taxi strip in front of Terminal Bldg N along hangar line to E/W rnwy closed to 4-engine acft-avail. twin-engine lgt acft. N end N/S rnwy closed to transport acft, unmrkd. Air carrier and other transport acft use taxi strip for warm-up. Continous take-offs, landings not permitted (const), mrkd. Unscheduled cargo acft use W portion fld. Crane rising 15-20' above top of levee off N end N/S rnwy on outside of levee, mrkd days; equip rnwd ngts. Army acft rstd from refueling except in extreme emerg. Neon approach lgt sys discont until approx Mar 3, 1947 due to maj const N end arpt. (8-28)
KANSAS CITY-GRANDVIEW ARPT (KANSAS CITY)-Equip. on fld days. (8-1)
KIRKSVILLE AIRPARK-E/W rnwy under const. unmarked. (7-17)
KNOXVILLE (Site 3, Kansas City-Chicago)-Fld discont. Beacon being relctd approx 1/4 mi W. Will be comm soon. (7-23)

MISSOURI-Continued

LAMBERT FLD-ST. LOUIS ARPT (ST LOUIS)-Surplus Acft Sales Center-parked acft. Closed to non-radio equipped acft. Equip. on fld. Const E, SE bndry fld. W end SW taxi strip closed. W 1500' Rnwy 7-25 closed (const). Navy facs closed 1700 to 0800 except when Opers Officer notified 2 hrs prior to 1700. (8-26)

LEBANON (Site 54B, Amarillo-St Louis)-Equip. on fld. (8-15)

**MONETT ARPT-1/2 mi NE; hwy S. Lat 36-56-00, long. 93-54-15. Elev 1462'. 2 strips: 2000' N/S,2400' E/W, both 400' wide. 80 oct,sto. (Tulsa chart) (6-21)

**ROSECRANS FLD (ST. JOSEPH)-Bcn, 24" rot, obst. Semi-Perm. Portable E-2 lgts. Fld lgts on req in emergency. 80,91 oct, Sto. (Kansas City chart) (6-10) Closed ngts. Bcn inop. (9-3)

★SEDALIA AAF (KNOBNOSTER)-RADIO: Army ILS (SCS-51) now operating as follows: Serves NE/SW rnwy with approach from SW. Lclzr transmitter lctd 550' NE of NE end NE/SW rnwy, freq 110.3 mcs, ident "DSM" (- . . , . . . - -) Mag heading for landing: 31°. Glide path transmitter lctd 986' NE of SW end NE/SW rnwy 330' from centerline on yellow side of lclzr course, freq 335 mcs. Three marker bcns: inner marker, .09 mi; middle marker, 1.18 mi, keyed six dots per sec; outer marker, 4.73 mi, keyed two dashes per sec, all SW of SW end NE/SW rnwy. Sys operates on 5 minutes notice during inst or impending inst weather, on 40 minutes all other times. (8-21). Army range unreliable. May be used for homing only without courses; may be in-
** termittent in oper. FLD: No lgts or svcg. (Kansas City chart) (9-13). Temp inactive-no facs. (See Special Notice re use.) Use rnwys only.

SKY HAVEN ARPT (WEST PLAINS)-Rough. 50' trees ends all strips. Trans acft use in emerg only. (5-24)

SPRINGFIELD-GREENE COUNTY ARPT (SPRINGFIELD)-Use rnwys, taxi strips only, bal fld rough. Blinding 30 million candle pwr ceilometer projector in operation on E bndry. (8-14)

MONTANA

BAKER ARPT-2' gully across NW/SE strip 1200' from SE end, across E/W strip, 400' from E end. (6-5)

BILLINGS ARPT-Lgt lane extends 1500' E of E/W rnwy. Last poles in lgt lane 37' above gnd and 32' above E/W rnwy. Lgtd lclzr bldg 1100' from W end E/W rnwy, lgtd glide path bldg 300' N of E/W rnwy adj E bndry. Army acft rstd from refueling except in extreme emerg. (8-30)

BUTTE ARPT-Blinding 30 million candle pwr ceilometer 267' E of center of N/S rnwy. (9-11)

CANYON RESORT (Beacon Site 30, Salt Lake-Great Falls)-Bcn inop. (9-10)

COLUMBUS ARPT-E section arpt from middle of fld closed (const). Equip. on fld, unmarked. (6-22)

**CONDON USFS (FLATHEAD NAT'L FOREST)-Correct elev 3690'. (Butte chart)(6-2)

**CONRAD ARPT-Only 80 oct. (7-23)

CUSTER-RADIO: 116.1 mc transmitter and receiver temp inop. (8-1)

CUT BANK ARPT-Obst lgts on twr, bcn inop. Ctc lgts avail. on req. (9-1)

★GREAT FALLS AAF-RADIO: Army ILS (CAA type temp inop. (relocation) AACS, CW freqs are temp inop. Army DF stn decomm. (9-13). AACS, ground to air stn transmits on and guards 4765,4660 kcs voice only. (9-9). FLD: Rnwy lgts 75' in from outer edge of rnwy shoulders; use 150' center strip.(4-26)

**HELENA ARPT-Only 80,91 oct. (7-29). Rnwys rstd to acft under 30,000 lbs. Equip. on fld. NE/SW rnwy unlgtd. Blinding 30 million candle pwr ceilometer 150' W of fld adj middle portion of W bndry. (9-13)

LEWISTOWN AIRPORT-Use rnwys only. (7-23)

**LIVINGSTON ARPT-Only 80 oct. (7-18)

McQUARTER CIRCLE RANCH ARPT (COLUMBIA FALLS)-E end fld soft, avail. lgt acft. (5-7)

MONTANA-Continued

MILES CITY ARPT-Bndry lgts inop. (6-22)

MISSOULA COUNTY ARPT (MISSOULA)-NE/SW rnwy closed. NW/SE rnwy closed to class B-17 or heavier acft. (6-23)

**MORRISON ARPT (HELENA)-ABANDONED. (Butte chart) (7-25)

MULLAN PASS-RADIO: Range flight-checked, courses correctly aligned. (9-11)

POLSON AIRPORT-Usable with caution. (7-19)

**RAINBOW ARPT (GREGSON)-2 strips: 4000' NW/SE, 2900' ENE/WSW, both 135' wide. Only 80 oct. (7-2)

SIDNEY ARPT-Ends of stripe in cultivation.

**TOOLE COUNTY ARPT (SHELBY)-Only 80 oct. (7-24)

**WEST YELLOWSTONE ARPT-1 strip: 6300 x 150' ENE/WSW. 91 oct. (7-19)

WOLF POINT ARPT-Hay stacks on fld. (9-10)

NEBRASKA

BEATRICE ARPT-Exten const. (5-24)

CLAY CENTER ARPT-Use strips only. (5-19)

CLEAR RIDGE ARPT (OMAHA)-Use strips only. (5-26)

COLUMBUS ARPT - Ditch W edge of the S half of NW/SE strip. (5-25)

ELGIN ARPT-Haystacks on fld. (5-24)

FREMONT ARPT-Equip., stakes on fld. (7-28)

GRAND ISLAND AAF-RADIO: Army ILS (SCS-51) and DF stn temp inop. (3-11) FLD: Only 73, 100 oct avail. (8-20)

KEARNEY AAF-2nd and 3rd Echelon maintenance not avail. Use rnwys, taxiways only. No svcg 1700 to 0800. (7-11)

LEE BIRD FIELD (NORTH PLATTE)-Army acft rstd from refueling except in extreme emerg. (8-28). Equip. on fld days. Const in area from intersection of E/W, NW/SE rnwys to hangar line, marked. Use rnwys only. (6-19)

McCOOK AAF-Temp inactive. No facs. (See Special Notice re use.) Use rnwys only - shoulders extremely soft.

OMAHA ARPT-S taxi strip avail. only single engine acft. Use rnwys only. Rnwy 17R-35L avail. lgt acft only. Rnwy 2-20 closed. (9-17)

SCOTTSBLUFF-RADIO: Conversion of radio range stn to SBMRLZ-DT and proposed shift of courses postponed until Sept 27. Stn class will be: SBMRLZ-DT. NE, SW courses will be realigned to: 205°,25°. (9-1)

SIDNEY (Site 50, Salt Lake-Omaha)-E/W strip avail, bal fld rough. (5-7)

NEVADA

ALAMO ARPT (LAS VEGAS)-Const equip. SW end NE/SW strip. (3-13)

BATTLE MOUNTAIN FLIGHT STRIP-Site 35, SAN FRANCISCO-SALT LAKE-Use paved surfaces only - shoulders soft. Equip. on fld days. 40' obst 800' from NE end NE/SW rnwy - lgtd ngts. (8-14)

BOULDER CITY ARPT-Avoid SW 1000' NE/SW rnwy (washout). Will be repaired approx Oct 2. (9-11)

DOUGLAS-TAHOE ARPT (MINDEN)-S 700' N/S taxiway closed. (4-2)

FERNLEY (Site 22, San Francisco-Salt Lake)-Rough with soft areas due wind erosion, soft sand, marked. (7-10)

GAFES (Site 36, Riverside-The Dalles)-Effect. Sept 21, all lgts will be discont. Fld will be avail. days only. (9-12)

HUBPARD FLD (RENO)-Equip ends Rnwys 7-25, 16-34. (9-11)

HUMBOLDT (Site 28B, San Francisco-Salt Lake)-SE quarter fld unsafe (4" washes) (6-12)

INDIAN SPRINGS ARPT-Temp inactive. No facs. (See Special Notice re use.)

LAS VEGAS-RADIO: VHF range will be comm soon at lat 36-11-06, long. 115-05-48. Bear. and dist, stn to McCarran Fld: 24°, 4.2 mi. Freq 109.1 mcs. Ident "LQ" (. - . . - - . -) Courses: Visual, 29°,209°; aural, 119°,299°. Mag var 16° E. Simult. voice channel and receiving watches (3117.5 kcs 116.1,131.7 mcs) avail 24 hrs daily. Stn class: VAR-VDT. (5-8)

LAS VEGAS AAF-No weather forecasting. Clearance by AFS. Opers and ltd maintenance facs avail. 0800 to 1700 Mon thru Fri only. Obst bcns No. 3 and 4 atop Sunrise Mtn inop. (9-6)

[redacted]-Temp inactive. No facs. (See Special Notice re use.)
SCOTTS (Site 22, Riverside-The Dalles)-Effect. Sept 21, all lgts will be discont. Fld will be avail. days only. (9-12)
TONOPAH-RADIO: Stn unmanned from 2400 to 0800 daily. (7-31)
TONOPAH AAF-Temp inactive. No facs. (See Special Notice re use.)

NEVADA-Continued

★BUCHANS-RADIO: Stn now guards 3105,4495,6210,3117.5 kcs. (7-18)

NEWFOUNDLAND

**BERLIN ARPT-80, 91 oct. (6-24)

NEW HAMPSHIRE

BOIRE FLD (NASHUA)-Wind cone atop brick hangar bldg used to indicate wind conditions. In calm air conditions, take-offs and landings will be made toward the NW. (7-15)
BRATTLEBORO-HINSDALE AIRPARK (HINSDALE)-Use only N/S strip unless familiar with fld. (6-4)
GRENIER FIELD (MANCHESTER)-RADIO: Glide path and inner marker of army ILS (SCS-51) temp inop. (7-23). FLD: Rnwy 13-31 closed. (9-10)
HOOKSETT LAND & SEAPLANE BASE (HOOKSETT)-Avail. days only. (5-9)
**LAKES REGION ARPT (WOLFEBORO)-No repairs. (6-24). CLOSED (const). Grass strip avail. in emerg. (4-8)
LANCASTER AIR PARK-CLOSED. (4-25)
**LEBANON ARPT-Acft radio repair svcg avail. (9-11)
**LEWIS FLD (LITTLETON)-80 oct, mai engine and acft repairs. No sto. (6-24) CLOSED (const). (4-23)
NEWPORT AIRPORT-60' trees at N end and edge of N/S strip. (1-8)
**TWIN MOUNTAIN ARPK-80 oct. (6-24)
**WHITEFIELD ARPT-3 mi ESE;RR N. Lat 44-21-45, long. 71-33-00. Elev 1030'. 1 strip: 2400 x 300' NW/SE. 73 oct. (Lewiston chart) (8-4)

NEW JERSEY

ATLANTIC CITY NAS-Avail. 0700 to 1530 Mon thru Fri. ETA prior to 0700 and after 1530 requires previous arrangement with Operations Officer. (7-11)
BENDIX-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.
BOUNDBROOK-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.
CAPE MAY COAS-Closed to trans acft except in emerg (caretaker status-no facs)
CARTARET-Beacon, side lgts inop on twr Radio Stn WOR. (7-24)
FORT DIX-Artillery range at Fort Dix. When firing in progress, special traffic patterns are used.
FORT DIX AAB (WRIGHTSTOWN)-Temp inactive. No facs. (See Special Notice re use.)
HEIGHTSTOWN ARPT & AIR SERVICE ARPT (HEIGHTSTOWN)-Under const. (3-12)
LAKE SUSQUEHANNA ARPT (BLAIRSTOWN)-Temp fence erected at SW rnwy at bndry of fld. (8-6)
NASSAU AIRPARK (CLARKSVILLE)-100' drainage ditch N side NNW/SSE strip, mrkd. (3-27)
NEWARK-RADIO: Multiplex all courses.
★NEWARK ARPT-RADIO: Lclzr of Army ILS (SCS-51) operates cont. Remainder of ** sys will be turned on at req from Newark twr or Radio. (8-30) FLD: 80, 91,100 oct. Mai. engine and acft repairs. No sto. (New York chart) (4-17) Side lgts on 350' smoke stack 1 mi NE floodlgtd. (8-31). Closed to all acft without 2-way radio. Landing fee for itinerant acft now in effect based on weight classification. All acft must taxi to the City of Newark Registry Office NW side fld and register. E 800' Rnwy 28 rough. Pilots are to make approach for numeral on Rnwy. No hangar space for Army acft. S 1800' from extreme end pavement Rnwy 1 closed until approx Oct 14 (9-14)

To reduce the noise of acft flying over Newark residential areas and to avoid tall bldg section following must be complied with: 1. Increase the rate of climb as much as practical. 2. Northbound or East-bound acft make left turn as soon as practical when taking off to SW. 3 make a half right turn as soon as practical when taking off to the N. 4. Make a half E of gas tanks lctd in Harrison when making a southerly direction approach to the N/S rnwy. 5. Whenever practical the arpt traffic controller will suggest the use of rnwys which will permit acft to avoid passing over residential and tall bldg areas. (9-7)
SOLBERG-HUNTERDON ARPT (READINGTON)-NE end NE/SW rnwy under const. (6-16)
TETERBORO AIR TERMINAL (BENDIX)-Heavy acft use NE/SW, N/S rnwys. Taxi strip S end fld incomplete. Acft landing from N must taxi back on rnwy to N end taxi strip. Use extreme ctn due to other acft landing on rnwy. Lgt acft use NNE/SSW rnwy. Signal lgt from twr in oper 0800 to 2000. All acft landing and taking-off should be guided accordingly. (8-6)
**WRIGHTSTOWN(FORT DIX)-Danger area adjacent and SE has been discont. Cancel area from chart "New Jersey 2" in "Danger Areas".

NEW MEXICO

ALAMOGORDO AAF-RADIO: Army ILS (CAA type) inop. (8-7). FLD: Opers and svcg avail. 0730 to 1600 Mon thru Fri only. Rnwy 3-21 lgts inop. (7-19)
ALBUQUERQUE ARPT-Used by RFC. Avail. only for delivery surplus acft this fld, prospective purchasers of surplus acft or parts, or in emerg.
ANTON CHICO (Site 78A, Los Angeles-Amarillo)-No fuel. (5-30)
CLOVIS AAF-RADIO: Army ILS (CAA type) temp inop. (6-27)FLD: No 91 oct.(6-12)
CREWS FLD-SITE 42, EL PASO-PUEBLO (RATON)-CLOSED (const.). (4-29)
DEMING AAF-Temp inactive. No facs. (See Special Notice re use.)
ENGLE (Site 10, El Paso-Pueblo)-No fuel avail. (8-29)
GALLUP ARPT-E/W rnwy closed. (5-4)
GALLUP CITY FLD-ENE/WSW strip under const. (5-7)
HOBBS AAF-Rnwys 3-21, 12-30 closed. Ltd svcg, maintenance. (6-10)
HOBBS MUN. ARPT-Allway landing area rough. Heavy acft use rnwys only.(7-21)
JUNDT FLD (STRAUSS)-Avoid E 500' E/W strip. Fld soft when wet, dusty when dry. Closed to cross-country acft when wet. S half E/W strip being widened. (5-28)
KIRTLAND FIELD (ALBUQUERQUE)-RADIO: About Oct 1, CAA ILS will be comm serving the N/S rnwy with approach from the S. Mag heading for landing: 349°. Lclzr transmitter lctd 1030' N of N end N/S rnwy, freq 110.3 mcs, ident "AB" (.- - . . .). Glide path transmitter lctd 1500' N of S end N/S rnwy, 400' W of centerline, freq 335 mcs. Two marker bcns: outer marker lctd 4.32 mi S of S end N/S rnwy, keyed two dashes per sec; middle marker lctd 3400' S of S end N/S rnwy, keyed with alternate dots and dashes. (9-10) AACS, ILS and DF (HF) facs temp suspended. (6-25) FLD: Blinding 25 million candle-pwr ceilometer projector installed 1000' N of Terminal Bldg. (6-5)
LAS VEGAS ARPT-Use rnwys only - bal fld unsafe. (5-30)
MAGDALENA MUN. ARPT-Large rocks, holes scattered over strips. Water across strips. Use ctn after rain. (5-6)
OTTO (Site 73A, Los Angeles-Amarillo)-No fuel avail. (7-11)
ROSWELL-Inten inst train. on Roswell Radio Range below, above, and in overcast. Acft inbound to Roswell or operating in vicinity under IFR, contact Roswell Radio for instructions.
ROSWELL AAF-Inside Rnwy 3L-21R closed. Ltd parking, svcg facs. (5-2)
SANTA FE ARPT, new-Rnwy lgts inop. Army acft rstd from refueling except in extreme emerg. (8-28)
WEST MESA ARPT (ALBUQUERQUE)-Surplus Acft Sales Center - parked acft.

ALBANY ARPT-Equip. on fld intmtly. (6-20)
BUFFALO ARPT-Acft entering and departing Buffalo traffic zone use ctn-new arpt 4000' ESE. (7-31)
★CHEEKTOWAGA-RADIO: Bear. and dist, Buffalo range to LFM: 230°, 4.7 mi (9-12)
CHEMUNG COUNTY ARPT (ELMIRA)-Lgts on req. Traffic gun displayed in front of main hangar during air carrier opers to control lcl traffic and at other times when circumstances make such practices consistant with safety. Equip N and W of N/S rnwy days. (7-2)
CLASON'S POINT-RADIO: About Oct 1, range will be comm at lat 40-49-11, long. 73-50-33. Freq 209 kcs, ident "LG" (. - . . - - .) Bear. and dist, stn to LaGuardia Fld: 222°, 3.2 mi. Courses will be 42°, 129°, 222°, 273°. Stn class will be: SBRAZ-VDT. VHF voice fac will transmit on 116.1 mcs, Stn will guard 3105, 4495, 6210, 3117.5 kcs, 116.1 mcs. The Clason's Point LFM will not be decomm as previously advertised. A FM will be comm at New Rochelle, N. Y. at lat 40-54-17, long. 73-47-19, on the NE course of the new Clason's Point Range about Oct 1. Bear. and dist, range to FM: 42°, 5.6 mi. Ident one dash (-); on the same date FMK will be comm at the New Rochelle, N.Y. FM Site on 275 kcs, ident "N" (- .). Note: See "New York-Special Notice-Radio". (9-13)
**COLONIE-RADIO: Bear. and dist, Albany range stn to LFM: 206°, 5.7 mi.
FLOYD BENNETT FLD NAS (NEW YORK)-RADIO: Soon, Navy range freq will be changed to 440 kcs. (9-12) FLD: Closed 1700 to 0800. (8-15)
FORT PLAIN (Site 40A, Cleveland-Albany)-Unsafe heavy acft (soft). SE 700' NW/SE strip unsafe all acft, mrkd. (4-4)
GLOVE CITY ARPT (GLOVERSVILLE)-Right traffic pattern except when taking-off or landing to E. NE corner fld unusable, soft area mrkd. Closed to all acft above 250 hp. (7-3)
HILTON ARPT-Use rnwys, taxi strips only, bal fld closed. (4-1)
HYLAN FLD (ROCHESTER)-Use strips only - ctn when wet. (5-18)
IDLEWILD ARPT-Not yet opened (const). (9-9)
ITHACA ARPT-Right hand traffic pattern in use. (8-3)
JOHNSTOWN-SPECIAL NOTICE-The Common Council of the City of Johnstown on June 11, 1946, passed the following ordinance: "Section 1. Taking off or landing so as to pass over a congested part of the City of Johnstown at a height of less than 500' is. . . a public nuisance and is hereby prohibited. Section 2. Any person . . . violating any provision of this ordinance shall be liable to a penalty of $50.00 for each violation. . ."
KINGSTON-ULSTER ARPT (KINGSTON)-ESE/WNW strip closed. (3-20)
LA GUARDIA FLD (NEW YORK)-RADIO: About Oct 1, the outer mrkr of CAA ILS will be relctd at lat 40-42-54, long. 73-55-50 on the SW course of the new Clason's Point Range lctd 4.4 mi SW of SW end NE/SW rnwy. Same date outer compass locator stn (lctd at new outer mrkr site) will be comm. Freq 317 kcs, ident "O" (- - -). Note: See "New York-Special Notice-Radio". (9-13) FLD: ARMY ACFT HAVING OFF. BUS. WITH HQ ATLANTIC DIV ATC. FT. TOTTEN, N.Y. SHOULD LAND AT MITCHEL FLD AND USE ATC OPER FACS THAT POINT. CLOSED TO ALL NAVAL ACFT EXCEPT THE FOLLOWING BECAUSE OF HEAVY TRAFFIC AND INSUFFICIENT SVCG FACS: Acft containing personnel on off. bus. or with Cmdr Eastern Sea Frontier or Hdqs 3rd Naval Dist when RON or refueling services not required. Acft containing officers of flag rank shall not be forbidden fld. TRANS NAVY ACFT USE NAS, FLOYD BENNETT. Army temp inactive-civil. facs. Equip. between NW/SE rnwy and ramps N of Hangars 2 and 4. Pilots of all mil acft upon arvl check in base oper office and ctc AFS fld ext 285. 10' high, 40' long obst 190' N of NE/SW rnwy, lgtd. Dump trucks outer edges fld days, clear of all rnwys. Obst lgts atop lclzr shack approach end Rnwy 22 and end Rnwy 4. 70' lgtd boom 4000' SE of NW/SE rnwy. 20' lgtd bldg 300' E of NE end NE/SW rnwy. NE 1300' Rnwy 22 rough. (9-6)

MacARTHUR FLD (ISLIP)-RADIO: Priv twr operating on 278 kcs. Gds 3105 kcs. Oper 0900 to 1700, week days, can provide ngt and Sun service upon req if important. (2-7) FLD: Mobile inst landing units 20' high on all rnwys 500' from rnwy center line, lgtd ngts. Acft use ctn-unconventional flight test oper. (5-23)
MALONE-DUFORT ARPT (MALONE)-Land on rnwys or grass along side of rnwys. Taxi on hard surface. (7-26)
**MARGARETVILLE-FLEISCHMANNS ARPT (MARGARETVILLE)-New fld. Adj. 1 strip: 2100 x 300' NE/SW. 80, 91 oct, minor engine, acft repairs. No sto. Pole line NE; trees SW. (Albany chart)(8-30)
MASSENA-156' twr Radio Stn WMSA lctd 232°, 3.0 mi SW temp lgtd with red lgts on top. Upon completion lighting facs will consist of 300 mm flash. bcn atop and four side lgts; two at 1/3 level, 2 at 2/3 level. (9-9)
MASSENA ARPT-Use rnwys, taxi strips only - turf rough. (6-11)
MITCHEL FLD (HEMPSTEAD)-RADIO: Army ILS (CAA type) temp inop. (7-31) FLD: Rnwy 18-36 closed. (7-17)
MONTGOMERY FLD (U.S. MILITARY ACADEMY NO. 1)(MONTGOMERY)-CLOSED. (11-7)
NASSAU ARPT (HEMPSTEAD)-Fld not mntnd. (6-28)
**NEW HACKENSACK ARPT (U.S. MILITARY ACADEMY #3)-No longer assigned to Army. Will hereafter be listed as New Hackensack Arpt. (New York chart)(9-11)
NEW YORK-SPECIAL NOTICE-RADIO: About Oct 1, The Clason's Point range, the New Rochelle, N.Y. FM and FMK, and the outer mrkr and outer compass locator stn on the CAA ILS at LaGuardia Fld will be comm on a temp basis operating only when LaGuardia Fld weather is ceiling unltd and visibility 10 mi or more to permit pilot familiarization with the new holding patterns and approach procedures which will be published at a later date in the "Airman's Guide" when fully developed and accepted. At this time, the present LaGuardia range, the Clason's Point LFM, and the present outer mrkr on the CAA ILS at LaGuardia Fld will be decomm and the new facs mentioned above will be comm on a full-time basis. (9-13)
NEW YORK-RADIO: The New York Radio Range will not be decomm as previously advertised. Note: See "New York-Special Notice-Radio". (9-13)
NEW YORK CITY-See Special Notice "Restriction on Flight of AAF Acft in New York City area".
NIAGARA FALLS ARPT-Use rnwys, taxi strips only - soft spots along edges new E/W rnwy, mrkd days. Equip center portion fld. Bndry, obst, wind sock and rnwy lgts avail 2000 to 0800. Grass area S of mid E/W rnwy and E of N/S rnwy closed (tall stakes being driven into sod). Army acft rstd from refueling except in extreme emerg. (8-28)
PLATTSBURG ARPT, old-Avail. lgt acft in emerg only. (5-31)
PULASKI ARPT-Under const. Landing area being extended in all directions.
REPUBLIC FLD (FARMINGDALE)-RADIO: Priv twr operating on 371 kcs. Gds 3105, 4495, 6210 kcs. Oper days only. (2-15)
★ROCHESTER-RADIO: Sept 6, VHF voice fac comm at communications stn, transmits on and gds 116.1 mcs cont. Stn class: BMRLZ-VDT.
ROCHESTER ARPT-Use rnwys only (soft). No hangar space. Equip. on fld days.
★ROME AAR-RADIO: AACS, gnd-to-air stn has discont oper on freqs of 4890, 2862 kcs. (9-11) FLD: Traffic alt 1500' MSL. Right hand traffic pattern.
SALAMANCA ARPT-Right traffic pattern when taking off to the W. (5-7)
SARANAC LAKE ARPT-Use rnwys, taxi strips only - turf rough. (6-5)
SCHENECTADY COUNTY ARPT (SCHENECTADY)-Use rnwys only - turf areas soft. Equip on N end fld. Trucks crossing NW/SE, N/S rnwys, adj taxiways. (8-7)
SCHOHARIE COUNTY ARPT (RICHMONDVILLE)-Right traffic pattern in use. (1-25)
SHERIDAN ARPT (WILLIAMSVILLE)-E/W rnwy under const. NE/SW avail. with ctn.
**SPRINGVILLE ARPT-Longest strip: 2640 x 800' E/W. (8-28)
STEWART FLD (NEWBURGH)-Pilots unfamiliar with Stewart Fld let-down procedure will not be cleared this fld under actual inst conditions. Final approach under these conditions will be made on SW leg Stewart Fld range only.

SYRACUSE ARPT-Turf areas soft after heavy rains. (9-10)

~~UNADILLA ARPT-NE/SW strip rough.~~ Acft may land on either side of rnwy. (6-11)

UTICA ARPT-Temp unlgtd 62' mast erected atop Smith Hill (alt 1250') 12 mi SE. (9-12)

WALLKILL FLD (U.S. MILITARY ACADEMY NO. 2)(WALLKILL)-CLOSED. (11-7)

WATERTOWN ARPT-Lgts being installed. Land, taxi with ctn. Holes along rnwy edges. (8-1)

WESTCHESTER ARPT INC (ARMONK)-Const, tree removal equip on fld. (8-16)

WESTCHESTER COUNTY ARPT (WHITE PLAINS)-Const. Excavation, equip SW end NE/SW rnwy. Lgts inop due to repairs. 3 unlgtd 40' masts being erected off bndrys of fld approx 1000' SE of intersection of N/S and E/W rnwys. (6-14)

WINGDALE ARPT-Fld rough. Lgt acft only. (3-21)

NORTH CAROLINA

ASHEVILLE-HENDERSONVILLE ARPT (ASHEVILLE)-No ctc lgts installed on NW/SE rnwy, approach all rnwys with ctn, equip on fld. No radio facs. (1-7)

ATLANTIC MCAAF-Use in emerg only (caretaker status - no facs).

BALLOON FLD NO. 1 (FORT BRAGG)-CLOSED. (11-20)

**BELMONT ARPT-1 strip: 2000 x 200' WNW/ESE. 80 oct, maj engine and acft repairs. No sto. (6-20)

BOGUE MCAAF-Closed to all acft except in emerg (no facs). (7-11)

**BROOKS ARPT (RED SPRINGS)-No svcg. (6-6) NNW/SSE strip soft, rough. (6-6)

BURLINGTON AIRPORT-CLOSED (equip). (5-23)

**BYERS FLD (SHELBY)-80 oct, sto., minor engine and acft repairs. (6-19)

**CANNON ARPT (CHARLOTTE)-Only 80, 91 oct. (6-20) Surplus Acft Sales Center - parked acft.

CHERRY POINT MCAS-Const, equip. on rnwys. Rnwy lgts being repaired. (7-17)

DOUGLAS ARPT (CHARLOTTE)-Army temp inactive-civil. facs.

EDENTON NAS-Use in emerg only (caretaker status - no facs).

ELIZABETH CITY CGAS-Stay on rnwys - shoulders soft, rough. Closed ngts from 1930 to 0730 except on prior req. All fld lgts inop. (9-13)

ELKIN ARPT-Under const. (4-23)

FAIRCHILD-CIVIL ARPT (BURLINGTON)-Use rnwys, taxi strip only. No fld facs.

FORT BRAGG-Heavy firing is being conducted in all sections of Fort Bragg danger area up to 20,000 ft. All acft must avoid this area shown on Flight Planning chart 55, herein. Inten train. days with radio control target planes from fld 6 mi due E of N end Pope Fld. Acft will operate within circle of 4 mi radius from center of fld with max alt of 2000' taking off by catapult, landing by parachute.

**FRANCIS MARION FLD (MARION)-80, 91 oct, sto., minor engine and acft repairs.

GREENSBORO-HIGH POINT ARPT (GREENSBORO)-Both sides Rnwy 32 to intersection soft, rutted. Use rnwys only. (9-9)

MORGANTON ARPT-Soon arpt will be closed to all acft - use Riverside Arpt.

OAK GROVE MCAAF (POLLOKSVILLE)-Const on all rnwys. (2-13)

POPE FLD (FORT BRAGG)-CLOSED TO LIAISON TYPE ACFT WITHOUT TWO-WAY RADIO - USE AUX STRIP 2 MI N, AT FORT BRAGG. Svcg avail. that fld. Heavy glider traffic. Equip. on fld days. 73, 100 oct avail. (8-26)

RALIEGH-DURHAM ARPT (RALEIGH)-ILS and transmitter bldgs 900' from NE end NE/SW rnwy. Glide path unit 400' S center line and 900' S of SW end NE/SW rnwy. Approach lgts 75' N of S end NE/SW rnwy and extending 1500' from end of rnwy. All obsts mrkd. (7-31)

SEYMOUR-JOHNSON FLD (GOLDSBORO)-Use rnwys only - shoulders soft. Temp inactive. No facs. (See Special Notice re use).

SMITH REYNOLDS ARPT (WINSTON SALEM)-RADIO: Effect Sept 20, CAA twr will gd 3105, 4495, 6210, 3117.5 kcs, 118.3, 126.18, 131.9 mcs. (9-6)

**WALLACE ARPT-1 strip: 1600 x 150-190' N/S. 80 oct, maj engine and acft repairs No sto. (6-7)

WEEKSVILLE NAF-LTA-RADIO: About Sept 17, freq of Navy range will be changed to 524 kcs. (8-28) FLD: Avail. HTA and LTA acft daylgt hrs; ngts by prior tlfo arrangement or in emerg. (9-3)

**WEST JEFFERSON ARPT-80 oct. (6-19)

**YOUNG AIRFIELD (OXFORD)-1 strip: 1800 x 100' NE/SW. (6-19)

NORTH DAKOTA

BISMARCK ARPT-Use rnwys only. Equip on fld, resurfacing, rnwys. Army acft rstd from refueling except in extreme emerg. (8-28)

CHANDLER ARPT (WILLISTON)-Use strips only, bal fld rough. (5-10)

DICKINSON-RADIO: Moderate multiples E course, lgt mulitples other courses.

DICKINSON MUN. ARPT - Equip. on fld. (7-28)

★FARGO-RADIO: Bear. and dist, stn to Fargo-Hector Fld: 260°, 0.9 mi. (9-12)

FARGO ARPT-HECTOR FLD (FARGO)-Equip. on fld. Tetrahedron flash. lgts indicates weather below CFR minimums. Bcn will operate only during hrs of darkness. (9-12)

GRAND FORKS ARPT-Use rnwys, taxi strips only. Shoulders soft. Equip. on fld. 50' const booms adj to NE corner fld, lgtd ngts. (8-27)

VALLEY CITY ARPT-SITE 71, HELENA-TWIN CITIES-CLOSED (const). Course lgts changed to red. Endry lgts discont. (7-29)

OHIO

AKRON ARPT-Surplus Acft Sales Center-parked acft. Use rnwys only. Equip on fld days. Trans pilots must register in Admin Bldg on arvl and dptr. Ltd svcg facs only. (5-27)

BRECKLING AIR SERVICE (CLEVELAND)-Large ramp under const. (7-24)

BRICKER FLD (BOWLING GREEN)-Use right hand traffic when landing or taking off to N, W, and SW. (7-17)

BROOKFIELD ARPT-Avail. lgt acft only. Use E/W strip. N/S strip under const.

BRYAN-DEFIANCE MEMORIAL ARPT (DEFIANCE)-Use E/W rnwy only, bal fld and rnwys under const. (7-3)

CEDAR LAWN ARPT (KENTON)-Use strips only. (6-26)

CHERRY FORK (Site 4, Cincinnati-Washington)-Unlgtd 30' pwr line 500' N of N/S strip. (8-3)

CINCINNATI ARPT, INC. (SHARONVILLE)-Taking off to W, SW, S use right traffic pattern. (5-1)

CLEVELAND ARPT-Trans pilots must register in Terminal Bldg upon arvl and dptr. Landing fee on all civil. multi-engine acft. (7-17)

CLINTON COUNTY AAF (WILMINGTON)-Rnwy lgts avail. on one hrs notice. For flight thru danger area, permission must be obtained from Cincinnati Airway traffic control center upon entering or prior to dptr from ATC area. Inten inst train. being conducted for danger area description see Wilmington, Ohio. (7-8)

COMBAUT ARPT-Use mowed strips only. (6-4)

★DAYTON ARPT-RADIO: Glide path angle of CAA ILS changed to 2-3/4°. (9-9) FLD: Use rnwys only, ngts. Equip on fld. 6' exper bank red approach lgts on extended centerline Rnwy 6-24R approx 425' beyond SW end, operating intmtly. (7-20)

FINDLAY ARPT-Green rnwy lgts removed from NW end NW/SE rnwy due to const of new 30' hangar NW corner fld adj to CAA bldg. (6-5)

GRIESER ARPT (SAUSEON)-Use strips only. (7-3)

GRIMES FLD (URBANA)-Use strips only. Land according to wind tee lctd in center of fld. (5-27)

HAYESVILLE (Site 27, Louisville-Cleveland)-Unlgtd 80' twr 1500' S. (8-4)

LAKEVIEW ARPT (MONTEZUMA)-Soft in spots - heavy acft use ctn. (10-5)

LANSDOWNE ARPT (GREENVILLE)-Equip on fld intmtly. (8-12)

LIMA ARPT-1320' of the E portion of fld avail. in emerg only - under cultivation. (7-26)

LOCKBOURNE AAB (COLUMBUS)-RADIO: Lclzr of Army ILS (CAA type) inop for

indefinite period. (6-21) FLD: Use rnwys, taxi strips only - shoulders soft. (4-29)
LOST NATION ARPT (WILLOUGHBY)-Const. Pilots use rnwys indicated by wind sock and tetrahedron lctd S side arpt. (7-9)
LUNKEN ARPT (CINCINNATI)-Fast landing acft use ctn. Slightly rolling section Rnwy 6-24. Army facs ltd. (6-12)
MANSFIELD ARPT-RADIO: Priv. twr and low-powered range (lclzr) oper on req or for training. Freq 269 kcs, Ident "IV". FLD: Equip on fld (const). (8-12)
MARION ARPT-Use only NE/SW, NW/SE rnwys W side fld. NE/SW, NW/SE strips extend into cultivated area W end of fld. (6-4)
MATHER ARPT (CLEVELAND)-Closed to trans acft except on special permission. Const on 1000' NW/SE, 1100' NE/SW rnwys. (8-22)
McKINLEY ARPT (CANTON)-330' twr Radio Stn WCMW being erected 5 mi WNW (285°) true. (6-9)
MEDINA PRICHARD ARPT (MEDINA)-NE/SW strip under const. (10-1)
MIDDLETOWN ARPT-Right traffic pattern taking off to S, SW and W.
NORWALK ARPT-Ditch N end N/S strip adj to side of road. (7-26)
OHIO STATE UNIVERSITY ARPT (COLUMBUS)-In wet weather use rnwys only. (7-17)
OHIO UNIVERSITY ARPT (ATHENS)-3' ditch W end fld. (5-18)
PARKS WATSON ARPT (CINCINNATI)-Right traffic pattern in take-offs to E, NE, SE. (4-2)
PATTERSON FLD (FAIRFIELD)-RADIO: Glide path of Army ILS (SCS-51) unreliable for ceilings under 100'. (7-1) Army GCA sys temp deactivated. (8-16)
PAULDING COUNTY ARPT (PAULDING)-Soft when wet, land at own discretion. (6-7)
PENINSULA (PORT CLINTON)-Scattered vegetation exceeding 18"- lgt acft ctn.
PORT COLUMBUS ARPT-NAS (COLUMBUS)-Rnwys and taxi strips being resurfaced, all areas mrkd. NW/SE rnwy except at intersection first rnwy closed. 10' bldgs being erected: 400' E of E end of E/W rnwy and on center line of E/W rnwy; 400' E of E end E/W rnwy and 250' S of center line E/W rnwy; 750' E of W end of E/W rnwy and 400' S of center line of E/W rnwy. 18" trenches being dug: on SW side NW/SE rnwy from Admin Bldg to NW end NW/SE rnwy; from Admin Bldg to just W and parallel to Navy opers area terminating at bldg lctn 400' E of E end of E/W rnwy, mrkd. Neon approach lgts being erected 85' N of center line of E/W rnwy and from W end of E/W rnwy to approx 1500' W. (7-16)
**PORT KONETA ARPT (WAPAKONETA)-New fld. 2-1/2 mi NNE; RR E. Lat 40-38, long. 84 -11 3 strips: 2600' E/W, 2900' NE/SW, 1320' N/S, all 500' wide. 80 oct, gto., minor acft and engine repairs. (Chicago chart)(9-10) This info. rc'd too late for inclusion on Flight Planning Charts.
SULLIVANT AVENUE ARPT (COLUMBUS)-W end E/W strip being extended 900'; S end N/S strip 1000'; SE end NW/SE strip 800'. These extensions are under const and unsafe. (6-14)
TAYLORCRAFT ARPT (ALLIANCE)-No radio. Left traffic 800' pattern. Student train. and test flying. Land acrdg to wind tee atop NE corner of hangar. Use rnwys only. Unlgtd bldgs entire S bndry fld. Trans pilots must register in Opers Office upon arvl and dptr. (8-23)
TWIN CITIES ARPT (GALLIPOLIS)-Use in emerg only. Cattle on fld. (7-3)
WARD ARPT (BEDFORD)-NE/SW, NW/SE strips rough. (7-3)
WILLARD ARPT-Avoid center section of N/S strip (soft). (6-19)
WILMINGTON-Exper Flying is being conducted within the following described area: beginning at lat. 39-41, long. 83-01-30; S to lat. 38-48-40, long. 83-02-30; NW to lat. 39-11-20; long. 84-00; N ot lat. 39-42-10, long. 84-00; E to point of beginning. This area should be avoided at all times.
WRIGHT FLD (DAYTON)-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON AUTHORIZED OFF. BUS. THIS STA OR IN EMERG AND TO ALL TRANS NAVAL ACFT. ALL OTHER ARMY ACFT AND TRANS NAVAL ACFT USE PATTERSON FLD. No svcg 2400 to 0730. Sod area closed. Rnwy, taxiway shoulders soft. Exten exper and train. flights.

WYNKOOP ARPK (MT. VERNON)-Under const. (6-20)
YOUNGSTOWN ARPT-Use rnwys only. Equip. on fld. (6-22)
ZANESVILLE ARPT-Use rnwys, taxi strips only - newly seeded areas. Tetrahedron ngts on req only. Rnwy in use lgtd continuously. (6-20)

ALTUS MUN. ARPT-Avail. only for delivery surplus mil acft or in emerg. Equip on and near N/S rnwy. (12-13)
ARDMORE ARPT-Being used by AA. Avail. trans acft in emerg only. No fuel or svcg avail. trans acft - use Ardmore Arpt, Site 10, Fort Worth-Wichita. Inten. ctc and inst train. in progress. (9-13)
BETHANY ARPT (OKLAHOMA CITY)-Use rnwys only. (6-6)
CHICKASHA FLD-CLOSED - under supervision Defense Plant Corp. (8-4)
CIMARRON FLD (YUKON)-Now a WAA Sales and Sto Center. No svcg, repairs or overngt sto. Planes parked on fld. 4 strips indicated by pylons and mrkrs. Lime markings center of each strip. (5-25)
ENID AAF-Inten train. below, above, and in overcast 25 mi radius of stn. Acft inbound to fld or operating in vcnty under IFR ctc Enid Radio for instructions approx 25 mi out, clear into fld 500' on top, or circumnavigate fld by 25 mi, if in overcast. Ltd parking facs. Use rnwys, taxiways only. (5-8)
GARTHOEFFNER COUNTRY CLUB (OKLAHOMA CITY)-Only N/S, NW/SE strips avail.
GREAT SALT PLAINS BOMBING RANGE (JET)-Trans acft land at Enid AAF for permission to use this fld. (6-10)
GUTHRIE (Site 21, Fort Worth-Wichita)-Const. Equip. on fld. Temp N/S strip avail. during const. period. Bndry lgts to be decomm. soon. Green course lgts changed to red. (5-21)
HATBOX FLD-MUSKOGEE ARPT (MUSKOGEE)-Use rnwys only - parked acft.
LAWTON ARPT-Obst lgts inop. Bndry, flood lgts on req. (7-24)
**MARKS ARPK (BLACKWELL)-New fld. 0.5 mi S. Lat 36-47, long. 97-17. Elev 987'. 2 strips: 2640 x 400' N/S, E/W, both 400' wide. 80 oct. (Wichita chart)(9-11) This info. rc'd too late for inclusion on Flight Planning Charts.
MAX WESTHEIMER FLD (NORMAN)-Avail all acft up to 30,000 lbs, days only. Left traffic pattern; lgt acft 800', heavy acft 1000'. Lcl traffic avoid flying over bldgs on N Campus. All traffic avoid flying over corporate limits of Norman unless having vertical clearance of 2000' or more.
**MIAMI ARPT (Mun)-Bcn, flood, obst lgts. (Tulsa chart)(9-11)
MUNICIPAL ARPT (BOISE CITY)-Emerg use only. (5-11)
NEWKIRK SKYPARK-NW/SE strip under const. (8-3)

OKLAHOMA-Continued.

NUCKOLS FIELD (OKLAHOMA CITY)-Use rnwys only. (1-14).
OKLAHOMA CITY-RADIO: Range flight-checked Sept 4, courses correctly aligned.
PERRY ARPT-Trans mil acft land at Enid AAF for permission to use this fld. (5-8).
PONCA CITY ARPT-Obst lgts atop 175' twr 1 mi S inop. (8-27)
POST FLD (LAWTON)-Closed to all except liaison type acft. Ext const. Equip on entire W half and NW portion fld. Closed ngts. Flash. bcn atop balloon hangar inop. Soft spots. Const on rnwys. (6-14).
SHAWNEE AIRPORT-Use rnwys, taxi strips only. (4-20).
★TINKER FLD (OKLAHOMA CITY)-RADIO: AACS, ground to air stn discont guarding 4890, 2862 kcs. (9-6) Army range reported unreliable for orientation and homing. Army DF station temp inop. FLD: Obsts on sodded area S of NE/SW rnwy. Equip. on Airdromé. (4-25)
TULSA-RADIO: About Sept 26, NE range course will be realigned to 232°.(9-13)
TULSA AIRPORT-Pilots without radio watch twr lctd SE corner fld for lgt signals. Helicopter area parking ramp marked with yellow and white circles with red "H" in center. Use rnwys, taxi strips only. (3-25).
**WILL ROGERS FLD (OKLAHOMA CITY)-Localizer transmitter bldg 15' high lctd 1000' N of N end of N/S rnwy temp obst lgtd by lanterns. (9-14). Ditch at approach end Rnwys 30, 35, lgtd. (9-4).
WOODRING FIELD (ENID)-Use rnwys only. (8-5)

OREGON

**BAKER ARPT-Three 40' poles, 700' S of E/W rnwy and 1000' E of N/S rnwy, obs marked and lgtd. (9-14) Use rnwys only. Equip. on fld days. Erecting 25' unlgtd bldgs adj to and outside bndry lgts-700' E of N/S, 700' S of E/W rnwys. (9-14).
★CLATSOP CO. ARPT (ASTORIA)-RADIO: Navy range discont. (9-11)
EUGENE-RADIO: Soon FM will be comm at Cottage Grove, Oreg. at lat 43-45-30, long. 123-06-12. Bear. and dist, range to FM: 150°, 29 mi. Ident three dashes (- - -) (9-3) All courses have multiples. (7-30)
EUGENE ARPK-N/S rnwy closed-to be used as taxiway only. (9-13).
GRANTS PASS ARPT-Ctn when wet. Traffic lands to N, takes off to S-steep grade. (6-5)
**LA GRANDE ARPT-Only 80 oct. (6-8) Grass 2 to 5' high in intermediate areas (6-8)
**LEXINGTON ARPT-2 strips: 3000 x 300' E/W. 1600 x 150' NE/SW 80 oct. (La Grande chart) (6-9).
MAHLON SWEET FLD (EUGENE)-Equip. on fld. Use rnwys only. Lclzr antenna S of S end N/S rnwy., transmitter bldg 300' E of antenna, glide path bldg 400' W of centerline N/S rnwy, 750' S of N end, unlgtd. (8-30)
MEDFORD-RADIO: All courses have multiples.
MEDFORD AIRPARK-Temp. closed. (12-9)
★MEDFORD AAF-RADIO: Effect Oct 1, CAA twr will guards 3105,4495,6210,3117.5 kcs, 126.18,131.9,118.7 mcs. (9-12) AACS, ground to air stn no longer operates on 2862, 4890 kcs. CW freqs temp inop. (9-6) FLD: Use rnwys, taxi strips only. Tetrahedron controllable from twr until wind reaches velocity of 10 mph. No bndry or flood lgts. No Army opers or svcg 2000 to 0800. (7-3).
★PENDLETON-RADIO: Bear. and dist. stn to Pendleton Fld: 247°, 2.3 mi (9-12) All courses have multiples with signal fades and surges.
**PENDLETON AIRWAYS INC. ARPT (PENDLETON)-Only 80, 91 oct. (6-9).
PORTLAND-RADIO: Following repairs, courses aligned by ground check only. (9-13). Stevenson, Wash. FM commissioning delayed indefinitely.(7-4)
PORTLAND AAB-East N/S rnwy avail. taxiing only. Flash. lgts on tetrahedron indicates suspension CFR flights. 100 oct, ltd 73 oct avail. Ltd JP-1 fuel avail. (8-10).
ROSEBURG(Site 41A, San Francisco-Seattle)-Unlgtd 100' pole 1200' S, 300' E

OREGON-Continued.

THE DALLES-RADIO: All courses have multiples with signal fades and surges
**THE DALLES ARPT-80,91 oct, sto. maj. engine and acft repairs.(Portland chart) (5-16)
TILLAMOOK-RADIO: Navy range temp inop. (7-19)
TROUTDALE AIRPORT-Surplus Acft Sales Center - parked acft.

PENNSYLVANIA

ALBERT AIRPORT (PHILIPSBURG)-Const S end N/S strip. (5-31)
ALLENTOWN-BETHLEHEM AIRPORT (ALLENTOWN)-Areas off rnwys soft in wet weather. Floodlgts Rnwys 9, 14, 18 inop. (5-18)
ALTOONA-RADIO: Range flight-checked Sept 3, courses correctly aligned.
ALTOONA-BLAIR COUNTY ARPT-SITE 24A, COLUMBUS-PHILADELPHIA-Use rnwys only.
BARRETT AIRPORT (CANADENSIS)-CLOSED (const). (6-11)
BEAVER FALLS AIRPORT-Patterson Heights Arpt, 1.5 mi S Beaver Falls is not under const., entirely avail. New fld, Beaver Falls Arpt, closed (under const and soft.) (3-30)
BLOOMSBURG ARPT-Temp too soft for use (recent floods). (6-1)
BUTLER-ALAMEDA AIRPORT (BUTLER)-Pilots avoid hospital area adj arpt. Use right traffic pattern on W take-off. (7-9)
CARLISLE AIRPORT-NW/SE strip under const. Use ENE/WSW strip only. (6-11)
CECIL-RADIO: Visual and aural FM signals reported in Vicinity of Imperial, Pa. (7-17). Compass locator stn temp inop. (9-13).
CHAMBERSBURG-High explosives being discharged approx 7 mi NW thru Feb. 5, 1947, daily Mon thru Sat 0800 to 1700 within the following area: N bndry lat. 40-01; S Lat. 39-59-30; E long. 77-47; W long. 77-49. (8-3).
CHEMUNG VALLEY ARPT (ATHENS)-500' extension E end E/W strip under const.
**CONWAY ARPT-Longest strip 2400'. (8-30)
CUB HAVEN ARPT (LOCK HAVEN)-Use rnwys only. (8-13)
DALEVILLE ARPT-Use right hand traffic pattern on E take off. (8-22)
**DRAVOSBURG SEAPLANE BASE-Will hereafter be carried under Pittsburgh, 5 mi SE, lat 40-21-00, long 79-53-05. (Cleveland chart) (8-30)
EAST SCRANTON ARPT (SCRANTON)-Emerg use only. (5-28)
GREATER PITTSBURGH ARPT (PITTSBURGH)-Use rnwys only-shoulders soft. CFT plant only. Ltd Army facs. No.91 oct. No st. First 500' of Rnwy 23 closed (const). Equip on fld. (8-5)
HARRISBURG STATE AIRPORT (HARRISBURG)-Use rnwys only. Do not use lock-wheel turns at ends of rnwys. (6-28).
JOHNSTOWN AIRPORT-Use rnwys only. (7-1)
JOHNSVILLE AIRPORT-RADIO: Navy twr temp inop on Sun. (4-26)
KAISER FIELD (BRISTOL)-Rnwy shoulders soft, unsafe for heavy acft druing wet weather. Use rnwys only. (5-27)
LANCASTER ARPT-Drain-pipe on both sides NW/SE strip, mrkd, stay between red Flags. Sinkhole extreme E end E/W strip:2 holes S end N/S strip,mrkd.
MILLBROOK-RADIO: VHF range temp. shut down. (5-10)
MT. POCONO AIRPORT-SITE 21, BUFFALO-NEW YORK-Shoulders NE/SW rnwy rough, not graded. Hazardous ruts along S side NW/SE rnwy. Use rnwys only.(5-22).
MOUNT UNION ARPT-Use strips, taxiways only.Use rnwys only in wet weather-strips unsafe (rough). (6-28)
MUSTIN FIELD NAAS (PHILADELPHIA)-Avail. ngts to pilots familiar with fld and surrounding obsts. Pilots unfamiliar with fld and surrounding obsts and transport planes over 9000 lbs use Philadelphia Southwest Arpt for ngt landings and take-offs. Closed to acft 50,000 lbs or over. Left traffic pattern at 1000'. (8-5)
OLMSTED FIELD (MIDDLETOWN)-Ngt landings hazardous. Obsts adj fld. 81' high tension wires across approach zones Rnwys29, 14, lgtd obsts between Rnwys 29, 32, approx 1000' from rnwys. Two 150' obsts right of Rnwy 29, lgtd. Ridges to WSW, ENE 300 to 700' higher than fld. Closed to B-29 opers. (4-10).

PENNSYLVANIA-Continued.

PARKER CRAMER AIRPORT (CLARION)-CLOSED (const). (5-24)
PHILADELPHIA NORTHEAST ARPT (PHILADELPHIA)-Avail radio-equipped acft. Use rnwys only. Equip on fld intmtly days. (8-16).
PHILADELPHIA SOUTHWEST ARPT (PHILADELPHIA)-Closed to non-radio equipped acft. Digging cable trenches on ESE, WSW sides Rnwy 4-22, both 20' from rnwy edge, parallel to rnwy for 1600'. Trench 500' long, parallel to and 20' from N side Rnwy 9, W of Rnwy 4. Trenches marked. Use rnwys only. NW/SE Rnwy 12-30 closed (const). Floodlgts on Rnwy 17 inop. (7-25).
★PHILIPSBURG-RADIO: Range flight-checked Aug 30, courses correctly aligned. Correct bear. and dist. stn to Pittsburgh-Allegheny Co. Arpt: 85°, 2.2mi. (9-12) Compass locator stn temp inop. (9-13).
★PITTSBURGH-ALLEGHENY COUNTY ARPT (PITTSBURGH)-RADIO: CAA twr now transmits on 278 kcs, 126.18, 118.7 mcs. (9-12) FLD: Army acft use in emerg only or on written orders. Use Greater Pittsburgh Arpt. Outgoing AAF flights clear thru AAF Flights Service. N/S rnwy closed. Equip on fld, mrkd. Closed to non-radio equipped acft. (7-18).
PITTSBURGH-BETTIS ARPT (PITTSBURGH)-Right traffic on NE and NW rnwys. (6-4)
PITTSBURGH-BUTLER AIRPORT (BUTLER)-Land in accordance with wind tee. Wind cone atop hangar for wind direction only. (7-24).
PUNXSUTAWNEY AIRPORT-NW end ESE/WNW strip closed. (8-5)
READING AIRPORT-Ridges S and E within 4 mi of fld up to 1200' MSL. Equip. on fld days. (3-30). Right traffic pattern on Rnwys 13 and 18. (6-11).
★SUNBURY-RADIO: Sept 11, VHF voice fac comm at communications stn, transmits on and guards 116.1 mcs. Stn class: MHVT.
SUNBURY ARPT-Temp too soft for use (recent floods). (6.1)
VALLEY FORGE AIRPORT (NORRISTOWN)-E/W, NE/SW strips avail. NW/SE under const. On take-offs to and landings from E or NE use right traffic temp; on W or SW use left traffic. (5-29).
VANDERGRIFT ARPT-Being repaired - use only center of strips. (4-25)
WILKES-BARRE-WYOMING VALLEY AIRPORT (WILKES BARRE)-Use rnwys only. Closed ngts - all lgts inop. (8-2)
WILLIAMSPORT AIRPORT-Closed ngts. Lgts avail. emerg. landings only. (6-22)
WILLOW GROVE NAS-Closed ngts. Equip. sides all rnwys days - lgts being installed. IFR inbound flights will be accepted daylgt hrs but no IFR outbound flights may be made. (9-16).
WINGS FLD (AMBLER)-NW/SE rnwy unusable (plowed up). Hangar const S side fld. Fld being graded, mrkd days. (9-14)

PUERTO RICO

SAN JUAN-SPECIAL NOTICE-ISLE GRANDE ARPT is part of U.S.Naval Air Stn, San Juan. Comm air-carriers may not use fld without specific authorization from Chief of Naval Opers, Wash. DC. Commanding Officer NAS San Juan may grant pmsn for one or two isolated landings. Proper authority must be obtained prior to landing. Private acft in a ferry status must obtain pmsn from Commanding Officer before landing at Isle Grande Arpt. (8-21)

RHODE ISLAND

CHARLESTOWN NAAS-Const. Low Alt formation break-up. Use stn below 1000' Alts. Equip on Rnwy 4-22.
GREEN, THEODORE FRANCIS, AIRPORT (PROVIDENCE)-Use rnwys only. Turf channels avail. local instruction purposes only. (5-23).

SOUTH CAROLINA

CHARLESTON ARPT-Lgtd bldg under const in sodded area between NW/SE rnwy and taxi strip 1500' S on NE end Rnwy and 325' from edge. 10' antenna shelter 45' long being erected on center line 1200' from SE end NW/SE rnwy, mrkd. Use rnwys only. (9-10).
CLARK FIELD (CHARLESTON)-Strips rough. (4-19).
**COLUMBIA AAB-No longer assigned to army. Will hereafter be carried as Lexington County Arpt. (Savannah chart) (8-31)

SOUTH CAROLINA-Continued.

FLORENCE ARPT-Closed sunset-sunrise (beacon, rnwy, obst lgts inop).(7-12)
GEORGETOWN COUNTY ARPT (GEORGETOWN)-Equip on rnwy shoulders. Beacon inop.
GREENVILLE AIRPORT-Rnwy lgts E end SE fld inop. Wind tee removed, tetrahedron lgts inop. Non-radio acft watch control twr for landing direction.
GREENVILLE AAB-Only 73, 100 oct. No maintenance facs 1700 Fri thru 0800 Mon. Wind tee removed. Tetrahedron lgts inop. (8-5).
**GREGORY ARPT-73 oct, sto. (5-21)
LEXINGTON CO. ARPT (COLUMBIA)-RADIO: CAA assumed oper of twr. Traffic controlled by lgt gun only. Operates 0800 to 1800. (9-9). FLD: Army temp inactive-no facs.
MEMORIAL AIRPORT (SPARTANBURG)-RADIO: About Sept 19, CAA twr will guard 3105,4495,6210,3117.5kcs, 118.7,126.18,131.9 mcs. (9-5) FLD: Use rnwys, taxi strips only. Ctc lgts inop. (7-19)
MYRTLE BEACH AAF-Inst train. at 1000 to 5000' alts 50 mi radius during IFR.
NORTH AIRPORT-Temp inactive. No facs. (See Special Notice re use).
OWENS FIELD (COLUMBIA)-RADIO: Soon, DT fac of CAA range will be relocated at Lexington County Arpt. (6-16). FLD: Use rnwys only. Req pilots avoid pivoting acft on NW end NW/SE rnwy. Small acft parked on ramp front Admin Bldg, marked. (8-14)
PARRIS ISLAND MCAS-Use in emerg only (caretaker status - no facs).
WOODWARD FLD (CAMDEN)-RFC planes parked entire fld off rnwys. Use rnwys, taxi strips only. No facs for closing flight plans other than tlfo. Flight plans should be closed by radio with Shaw Fld twr before landing. Closed ngts. (1-10).

SOUTH DAKOTA

ANDERSON ARPT (MITCHELL)-Use strips only. (5-7)
BELLE FOURCHE AIRPORT-SE end NW/SE strip rough. Avoid S end N/S strip beyond intersection of E/W strip. Loose gravel around new hangars and taxi strip leading to NW/SE strip. All strips soft when wet (8-5).
BIENDENFELT FLD (FAULKTON)-Hay stacks on fld.
BROOKINGS AIRPORT-Use strips only - fld soft in wet weather. (8-5)
PIERRE AIRPORT-Tetrahedron unreliable. (6-18).
PLATTE ARPT-Use strips only.
**RANCHER'S & FARMER'S ARPT (RELIANCE)-73 oct. (9-10).
RAPID CITY-Intensive air-to-air gunnery is being conducted approx 35 mi SE thru Sept. 30, within an area bounded as follows: N by lat. 43-41; S by lat 43-30; E by long. 102-01; W by long 102-50. (8-30)
RAPID CITY AAB-RADIO: Army ILS (SCS-51) temp suspended. AACS, ground to air sta inop on all freqs. (6-10). FLD: Obst lgts on hills N and NW and hills 4 mi S inop. (9-10).
SIOUX FALLS-RADIO: Courses aligned by ground check only. (9-7)
SIOUX FALLS ARPT-Use rnwys only. Tetrahedron rmvd. (9-2).
**VERMILLION ARPT-80 oct, sto., minor engine and acft repairs. (5-22)
**WAGNER ARPT-Only 73 oct. (5-21)
WATERTOWN COMMERCIAL ARPT-Use in emerg only-no facs.(9-11)
WATERTOWN ARPT-10 unlgtd 80' poles 3500' E of S end N/S rnwy. (9-11)
**WINNER ARPT-80,91 oct, sto., maj. engine and acft repairs. (5-21)
W.W.HOWES ARPT (HURON)-Closed to all acft exceeding 25,500 lbs. Mil acft use only in emerg or on off. bus. Blinding 30 million candle pwr ceilometer 1000' NW bcn.(8-30)

TENNESSEE

BEACHVILLE (Site 63, Dallas-Louisville)-On or about Sept 23 site will be discont and relotd as soon as possible. (9-10).
BERRY FIELD (NASHVILLE)-RADIO: About Sept 23, CAA twr will guard 3105,4495, 6210,3117.5 kcs, 126.18,118.3,131.9 mcs. (9-9) FLD: Use rnwys only - rnwy, taxiway shoulders soft. Recon approach sys NW end Rnwy 15-33 completed-being installed S end Rnwy 2L-20R dyns. (9-11).

CORNELIA FORT AIRPARK (NASHVILLE)-Landings and take-offs to S use left hand traffic, to N right hand traffic. (7-24)
CUMBERLAND FLD (NASHVILLE)-Strips under const. (1-26)
EMERY RIDDLE FLD (UNION CITY)-Use rnwys only - parked acft.
KNOXVILLE-RADIO: Heavy multiples E course.
KNOXVILLE-McGHEE TYSON ARPT (KNOXVILLE)-RADIO: Soon CAA twr will guard 3105, 4495,6210,3117.5 kcs, 126.18,118.7,131.9 mcs. (9-6) FLD: S taxi strip closed. No parking on ramp front of Admin Bldg any time day or ngt. Army acft rstd from refueling except in extreme emerg. Unlgtd parked acft on ramp NE side Admin Bldg. (9-14)
LEBANON ARPT-Soft spots in E/W and NE/SW strips near intersection; avoid using after heavy rains and thaws. (11-26)
McKELLAR ARPT (JACKSON)-Use rnwys only - parked acft.
★MEMPHIS ARPT-SPECIAL NOTICE-RADIO: Effect Sept 15, Memphis Approach Control
** assumed control over all air traffic operating under IFR within the following area: On Amber Airway No. 5, between the Cuba and Nesbitt FMs inclg the two minute holding path S of the Nesbitt FM. On Green Airway No. 5 between the Fisherville and Bruins FMs. It is necessary that all acft operating in the above described area under IFR forward position reports to Memphis Approach Control. (9-12) AACS, ground to air stn has discont oper on freqs of 2862,4890 kcs. (9-5) FLD: 92' antenna erected approx 500' NE of control twr, obst lgtd. (9-14) Fld badly eroded. Use rnwys only-shoulders soft. Equip on fld. Avail private acft equipped with fully operating 2-way radio transmitting on one of the following freqs: 3105, 4495,6210 kcs. Other acft may land by obtaining previous authorization from CAA inspector. Student instruction in private acft not permitted. Neon approach lgts inop - being relctd. (9-14)
MEMPHIS NAS-CLOSED NGTS EXCEPT IN EMERG. Flight plans should be addressed to "MEMPHIS NAVY". Ngt flying in 5 mi radius up to 2500'. Exten flight opers in 15 mi radius. Traffic left at 1000'. Resurfacing rnwys, mats. Red rot. bcn indicates IFR. (8-6)
NASHVILLE-RADIO: VM will be comm soon at Mt. Juliet, Tenn. at lat 36-12-00, long. 86-28-35, lctd 9.6 mi from range stn. Ident will be one dash (-). Bear. and dist, range stn to FM will be: 66°, 9.6 mi. (8-1)
PARSONS (Site 56, Dallas-Louisville)-On or about Sept 23, site will be discont and relctd as soon as possible. (9-10)
SMITHVILLE-RADIO: Severe multiples all courses.
SMYRNA AAF (NASHVILLE)-RADIO: Army ILS temp inop. (6-25) AACS, ground to air stn and DF facs on 4765,4890 kcs, voice, 2796,5200 kcs CW temp inop. (5-31)
TRI-CITY ARPT-Army acft rstd from refueling except in extreme emerg. (9-9)

TEXAS

★ABILENE AIR TERMINAL (ABILENE)-RADIO: CAA twr freqs changed to 278 kcs,118.7 mcs. Gds 3105,4495,6210,3117.5 kcs, 118.7,126.18,140.1,131.9 mcs. (9-10) FLD: E/W rnwy avail. only on permission of control twr. (9-3)
ABILENE AAF-Temp inactive. No facs. (See Special Notice re use).
ALAMO (SAN ANTONIO)-RADIO: Soon scheduled bdcast will be discont on range. Class will be: MLZ-VDT.
★ALICE-RADIO: Sept 12, NE course realigned to 252°. Ground-checked only.
AMARILLO AAF-RADIO: AACS, ground to air stn temp inop. (6-25)
ARLEDGE FLD-MAIN AIRDROME (STAMFORD)-Use rnwys only - parked acft. Sod soft after rain. Wind tee removed. Wind socks on N and S hangars. (6-3)
ARLINGTON (MIDWAY) ARPT-All rnwy lgts inop. NE/SW rnwy unsafe; NW/SE rnwy usable with caution. (4-18)
ASHERTON ARPT-High brush-use strips with caution. (6-11)
AUSTIN-RADIO: Range flight-checked, courses correctly aligned, break in stn

lctn marker lgt pattern. (5-23)
**AVENGER FLD (SWEETWATER)-Only 80 oct. No sto. or repairs. (6-20)
BERGSTROM FLD (AUSTIN)-RADIO: Army ILS (SCS-51) temp inop. (6-25) FLD: Rnwys NE/SW, 13L-31R, 8-26 closed. (8-7)
★BIGGS FLD (EL PASO)-RADIO: AACS, ground to air stn has discont oper on freqs of 2862, 4890 kcs. (9-9) Army ILS (CAA type) temp inop. (5-16) FLD: Const on rnwys. Army acft with destination White Sands Prvg Gnds clear thru Biggs Fld. Dirt landing strip at old fld closed for resurfacing. Until Sept 25, 3 searchlgts will operate during hrs of darkness off the airways approx 20 mi N of fld, 108 mi N of N.M. border and 1.4 mi E of El Paso Alamogordo Hwy. Acft will fly at all alts without lgts in this area but will not cross airways. (9-6)
★BIG SPRING-RADIO: Sept 10, N course realigned to 166°, S course to 307°. Ground-checked only.
**BROWNFIELD ARPT-Only 80 oct. (6-20)
★BROWNSVILLE-RADIO: Effect with the realignment of N course to 174°, Sept 16, the quadrants are reversed in order that the "N" quadrant remains in true North. Range courses aligned by ground check only. These data rec'd too late for inclusion on Flgt Planning Charts and danger symbol. 3105,3117.5, 4495,6210 kc receivers unreliable. 116.1 mc transmitter and receiver temp inop. (9-11)
BRUCE FLD (BALLINGER)-Use rnwys only - parked acft.
BRYAN AAF-Temp inactive. No facs. (See Special Notice re use).
CAMP HOOD LANDING FLD (KILLEEN)-CLOSED EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. AAF oper facs avail. Ngt opers on previous arrangements. Right traffic to N, left to S overhead approach. E/W rnwy closed. (6-28)
CARTHAGE AIR SERVICE ARPT (CARTHAGE)-E/W strip under const. (5-28)
CHILDRESS-RADIO: VHF range will be comm soon at lat 34-22-12, long. 100-17-12, lctd approx 5½ mi SW of the city of Childress. Freq 109.1 mcs. Ident "CM" (- . - . - -) Visual courses: 53° and 233°, aural courses: 323° and 142°. (7-25)
CHILDRESS AAF-Temp inactive. No facs. (See Special Notice re use).
**CISCO ARPT-Only 80 oct. (6-21)
CLEVELAND-RADIO: VHF range operating on exper basis, at lat 30-15-36, long. 94-58-00. Freq 109.1 mcs. Ident. "CL" (- . - . . - . .) Visual courses: 15° and 195°, aural courses: 105° and 285°.
CLIFF MAUS FLD (CORPUS CHRISTI)-RADIO: CAA twr freq will be changed soon to 278 kcs, 118.3 mcs. (8-9) FLD: Use rnwys only during wet weather. (9-12)
**CLOVER FLD (HEREFORD)-73 oct, sto. (5-13)
CONROE ARPT-Use in emerg only - no facs.
★CORPUS CHRISTI-RADIO: E range course realigned to 218°, W course realigned to 38°, Courses aligned by ground check only. (9-11)
CORSICANA ARPT, mun-UNUSABLE. Acft parked entire fld. (2-6)
COX AAF (PARIS)-Temp inactive. No facs. (See Special Notice re use).
CUERO ARPT-In wet weather land as near the ramp as possible. Use ramp only in emerg. Center portion fld soft in wet weather. No sveg or lgts. Landings should be made within orange cone bndrys. Use strips only - parked acft.
**DALHART ARPT-73 oct, sto, major, engine and acft repairs. (5-10)
**DALHART #1 ARPT-Revised data: 7 mi WSW; RR, hwy E. Lat 36-01-45, long. 102-38-00. Elev 3989'. Obst lgts. (Trinidad chart)(5-10)
**DOUGAN FLD (LITTLEFIELD)-Only 80, 91 oct, sto, minor engine and acft repairs.
ELDORADO ARPT-E/W strip soft in wet weather. (12-11)
ELLINGTON FLD (HOUSTON)-Closed to very heavy bombardment acft except in emerg. Temp inactive. No facs. (See Special Notice re use).
EL PASO MUN. ARPT-ED ANDERSON FLD (EL PASO)-Const 400' to left and 1000' from the approach end Rnwy 22. (5-17)

★ENGLISH FLD (AMARILLO)-RADIO: Sept 7, glide path comm on CAA ILS. Transmitter lctd 910' from NE end NE/SW rnwy 400' E of centerline, freq 335 mcs, angle 2-3/4°. AACS, ground to air stn oper temp suspended. (2-5) FLD: Use rnwys, taxi strips only. Army temp inactive - civil facs. (7-26)

**FORT WORTH AAF-RADIO: AACS, ground to air stn temp inop. (7-25) FLD: Correct elev 636'. (Dallas chart)(8-30) Lgts atop poles NW edge fld inop. Only Rnwy 17R-35L avail. days. Only Rnwy 17L-35R avail. ngts. Heavy const on rnwys. (7-25)

GAINESVILLE AAF-Use rnwys only. (8-10)

GASKIN FLD (SHERMAN)-Use rnwys only.

GIBBS FLD (FORT STOCKTON-Use rnwys only - parked acft. Use only in emerg.

GILCHRIST ARPT (WICHITA FALLS)-Strips soft when wet. Pumping well approx 500' from NW end NW/SE strip. Use strips only. (5-22)

GOODFELLOW FLD (SAN ANGELO)-Use rnwys only. Ctc Goodfellow Radio 15 mi out in IFR weather. Acft flying N or E on range mntn odd 1000' alts. Acft flying W or S mntn even 1000' alts unless otherwise advised by Goodfellow Radio. Lcl inst acft using range. Ltd parking, svcg facs. Inten primary train. Mon thru Fri; trans acft will normally use right traffic. (4-24)

GRANBURY-RADIO: Range flight-checked Aug 13, oper unreliable (interference).

GRAND PRAIRIE OLF-CLOSED TO ALL TRANS ACFT EXCEPT PTs. Ngt train. within gliding range from sunset to midngt at alts to 2000' above terrain. (7-1)

**HALE COUNTY ARPT (PLAINVIEW)-Only 80, 91 oct. (6-19)

**HAWKINS (SITE 12, FORT WORTH-ATLANTA)-ABANDONED. (Shreveport chart)(8-30)

HEARNE (Site 15, Galveston-Waco)-Bcn inop. (5-16)

HENSLEY FLD (DALLAS)-Lgt acft operating at 500' pattern alts. (7-31)

HICKS FLD (FORT WORTH)-Use strips only - parked acft. (4-25)

HITCHCOCK NAF-LTA-RADIO: 6390 kcs transmitter and receiver temp inop. (3-12)

HOLMAN ARPT (WICHITA FALLS)-Use strips only. Ctc Wichita Falls Radio for ngt landings. (8-12)

★HOUSTON-RADIO: Sept 17, SW course realigned to 38°, NE course realigned to 241°. Ground-checked only. These data rcvd too late for inclusion on Flgt Planning Charts or for caution symbol.

HOUSTON ARPT-Use rnwys, taxi strips - ditches parallel E/W, N/S, NW/SE rnwys and N/S taxi strip. Equip. on fld. (8-12)

**IRA BENGER ARPT (FRIONA)-73 oct, sto. (5-13)

JEFFERSON COUNTY ARPT (BEAUMONT)-Closed to trans acft except in extreme emerg. Const equip. on fld. No facs. (6-18)

KELLY FLD (SAN ANTONIO)-Acft on fld. Use rnwys only.

190' lgtd twr const W Rnwy 14-32. (7-29)

**LAGUNE MADRE ARPT (HARLINGEN)-Name changed to Port Isabel Arpt. Will hereafter be listed under Port Isabel. Loc. 10 mi NW. (Corpus Christi chart) (9-1)

LAMESA FLD-Gov't owned acft parked W half fld. Use rnwys only. (6-6)

LAREDO AAF-Temp inactive - no facs. (See Special Notice re use).

LAUGHLIN FLD (DEL RIO)-Temp inactive. No facs. (See Special Notice re use).

**LEVELLAND ARPT-80 oct. (6-20)

LOVE FLD (DALLAS)-RADIO: Soon, glide path will be comm on CAA ILS. Transmitter will be lctd 1100' SE of NW end of NW/SE rnwy and 400' right of rnwy centerline approaching from NW. Freq will be 335 mcs. Glide path angle: 2½°. (8-19) CAA ILS temp inop (major adjustment)(9-3) FLD: Rnwy 4-22 closed. Soft areas along taxi strips when wet. 30 million candlepwr ceilometer projector 1000' N of control twr. (9-13)

LUBBOCK AAF-Temp inactive. No facs. (See Special Notice re use).

**MARATHON ARPT-80 oct. (8-15)

MARFA AAF-Temp inactive. No facs. (See Special Notice re use).

MATAGORDA ISLAND BOMBING AND GUNNERY RANGE (MATAGORDA ISLAND)-Temp inactive. No facs. (See Special Notice re use).

MEACHAM FLD (FORT WORTH)-RADIO: CAA ILS will be comm soon serving N/S rnwy with approach toward S. Mag. heading for landing: 173°. Voice-equipped lclzr will operate on 109.9 mcs. Glide path on 333.8 mcs. Two marker bcns: outer marker 4.09 mi N of N end N/S rnwy, keyed 2 dashes per sec; middle marker 0.7 mi N of N end N/S rnwy, keyed with alternate dots and dashes. (6-4) FLD: Use rnwys, taxi strips only in wet weather. Obst lgts atop 125' smokestack 1/4 mi E, inop. (4-10)

MIDLAND ARPT NO. 2-Fire and crash protection, svcg facs avail. 0800 to 1700 Mon thru Fri. only. (9-10)

★MIDLAND AAF-RADIO: CAA assumed oper of Army range Sept 9. Transmits on 209 kcs. Ident. "DON". Class: MRLMZ. FLD: Temp inactive. No facs. (See Special Notice re use).

MINERAL WELLS ARPT, new-Use rnwys, taxi strips only, graded areas unsafe. (7-15)

ORANGE ARPT-NE/SW, NW/SE strips under const. Use only E/W strip. Fld flooded after rains. (7-10)

PALESTINE ARPT-Sod areas usable in dry weather. Circle fld for lgts. (4-8)

PAMPA ARPT-Erecting 20' bldg 500' S of E/W strip and 200' W of N/S strip, marked. (11-9)

PAMPA AAF-Temp inactive. No facs. (See Special Notice re use).

**PARKER SKY CAMP ARPT (WEATHERFORD)-80 oct, sto, minor engine and acft repairs. (6-17)

PERRIN FLD (SHERMAN)-Rnwy 3-21 closed. Acft parked S edge fld. (8-20)

**POUNDS FLD (TYLER)-Correct elev 543'. (Shreveport chart)(8-29)

PYOTE AAF-Rnwys 18-36, 7-25 closed. Ltd svcg, maintenance. (6-18)

RANDOLPH FLD (SAN ANTONIO)-Trans acft use E side fld. (5-16)

RICH FLD (WACO)-Use strips only (muddy). Small ditch on S end N/S strip (repairs on range lgts). (3-22)

RIO GRANDE VALLEY INTERNATIONAL ARPT (BROWNSVILLE)-RADIO: Due to temp twr installation at CAA twr maximum intermediate freq transmitter 278 kcs coverage approx 5 mi radius. (7-16) FLD: Rnwy 4-22 closed. Use rnwys, taxi strips only. Bldg 300' E, 700' S of N end Rnwy 17-35, lgtd. Civil acft may be cleared thru this arpt for foreign flights. Army acft use Kelly Fld. Portable control twr 40' SW base of old twr. Obst lgts atop 90' antenna poles 3 mi S inop. (8-2)

★ROBERT MUELLER ARPT (AUSTIN)-RADIO: Sept 10, twr freq changed to 272 kcs, 118.7 mcs. Guards 3105,4495,6210,3117.5 kcs, 118.7,126.18,131.9,140.1 mcs. FLD: Acft landing or taking-off on Rnwy 34 use right traffic pattern. Acft landing or taking-off on other rnwys use left traffic pattern. Rnwy 12L-30R closed. Blinding 30 million candlepwr ceilometer 900' N of Admin Bldg. (8-15)

ROCKPORT ARPT-Closed except in emerg. Fire and crash equip removed. (8-1)

SAN ANTONIO-Cloud flying on Randolph Fld Radio Range at alts assigned by San Antonio A.T.C. Acft inbound to Randolph Fld or operating in that vicinity under IFR contact Randolph, Alamo or San Antonio Range Stn and adhere to instructions issued by San Antonio A.T.C. Acft outbound from Randolph Fld adhere to instructions issued through Randolph Twr.

★SAN ANTONIO ARPT-ALAMO FLD (SAN ANTONIO)-RADIO: Sept 12, CAA twr freq changed to 278 kcs, 118.5 mcs. FLD: Ltd svcg. Closed ngts to all civil acft except scheduled airlines. Equip. S end N/S and SW end NE/SW rnwys. Ditch this area. (7-3)

SAN MARCOS AAF-Caution - helicopter and liaison pilot training. (6-12)

**SEYMOUR ARPT-Only 80 oct. (6-17)

SHEPPARD/KELL MUN. ARPT (WICHITA FALLS)-RADIO: Army twr to be decomm Sept. 30. FLD: N/S rnwy W of fld rstd to acft 200 hp or less. Use rnwys only. Army facs temp inactive Sept 25-civil facs. (9-6)

**SKY RANCH ARPT (ARLINGTON)-3 mi SW; RR, hwy N. Lat 32-42-15, long. 97-08-45. Elev 590'. 3 strips: 1400' N/S; 2500' E/W; 2400' WNW/ESE, all 1000' wide. 80 oct, sto. (Dallas chart). (6-12).

SOUTH PLAINS AAF (LUBBOCK)-Parts of rnwy not visible from control twr due to parked acft. Oper office open 0800 to 2200. Sta storage acft received only between 0800 and 1630 Mon thru Fri. Soft spot approx 1500' S of N/S rnwy. Ltd transportation, no housing and messing facs. (7-26)

**SPUR ARPT-Only 80,91 oct. (6-19)

**STAMFORD ARPT-Only 80 oct, sto. (6-21)

TAYLOR AIRPORT (ALBANY)-CLOSED (rnwy const). (4-4)

**TERRELL ARPT-Name changed to Kaufman County Arpt. (Dallas chart). (5-29)

**TEXHOMA ARPT-73,91 oct. (5-11)

**TRADEWIND ARPT (AMARILLO)-New fld. 1-1/2 mi SE. Lat 35-11-10, long. 101-49-20. Elev 3636'. 2 strips: 3000' N/S, NE/SW. Fuel, sto, major acft, engine repairs. (Oklahoma City chart). (8-27)

UNIVERSITY ARPT (AUSTIN)-Temp closed-no svcg facs. (9-10)

VICTORY FIELD (VERNON)-Use rnwys only (parked acft). Avail. days only. (6-3)

**WALLACE FLD (TERRELL)-Only 80 oct. (5-29)

**WEATHERFORD ARPT-Only 80 oct. (6-17)

**WELLINGTON ARPT-80 oct. (6-18)

WHITE FLD (BRADY)-CLOSED. (8-7)

UTAH

BRYCE CANYON-RADIO: 116.1 mc transmitter and receiver and 129.7 mc receiver temp inop. (9-17)

DELTA AIRPORT-Use rnwys only. (6-22)

DUGWAY FIELD (TOOELE)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG.

ENTERPRISE (Site 39, Los Angeles-Salt Lake)-Soft, rough-use rnwys only. N 600' N/S rnwy closed. (8-29)

HANKSVILLE-RADIO: Sta unmanned from 2200 to 0600.

HANKSVILLE (Site 54, Los Angeles-Denver)-N/S strip unlgtd. (6-17)

★HILL FLD (OGDEN)-RADIO: AACS, ground to air stn has discont oper on freqs of 4890, 2862 kcs voice. (9-9) OW facs of AACS, ground to air stn temp suspended. (5-26) Army DF (HF) stn oper temp suspended. (3-18)

MILFORD ARPT-SITE 45, LOS ANGELES-SALT LAKE-Installation of obst lgts on bldgs SE corner fld S of and adj to bcn twr incomplete. (5-22)

PROVO ARPT-Soft shoulders. Fld lgts avail. on req. (7-18)

ST. GEORGE (Site 36, Los Angeles-Denver)-Equip, along edges of strips. (6-13)

SALT LAKE ARPT NO. 2 (SALT LAKE CITY)-Use rnwys, taxiways only-shoulders soft. (6-5)

SALT LAKE CITY-RADIO: Auto. range moniter. sys on N course temp inop. Temp remote monitor. sys which provides cont aural and visual monitor. at control stn recomm on N course. Warning signal not avail. (5-3)

**SALT LAKE CITY ARPT NO. 1 (SALT LAKE CITY)-RADIO: About Nov 1, CAA ILS will be comm, serving N/S rnwy with approach from S. Lclzr transmitter lctd 1000' N of N end N/S rnwy on center line, freq. 110.3 mcs. Glide path transmitter lctd 750' N of S end N/S rnwy, 800' W of centerline, freq. 335 mcs. Two marker bcns: Middle, 3730' S of S end N/S rnwy, keyed with alternate dots and dashes; outer, 4.69 mi S of S end N/S rnwy, keyed two dashes per sec. Sys will operate cont. (8-14). FLD: 28' obst lgtd mast erected atop glide path bldg, lctd 750' N of S end N/S rnwy, 800' W of centerline. (9-3). Prevailing wind rnwy lgts operating ngts. Use rnwys-shoulders soft. Equip. ahead of Rnwys 31 and 34. (9-11)

WENDOVER FIELD-RADIO: 126.18 mc transmitter and receiver of Army twr temp inop. (7-12) FLD: CLOSED TO ALL TRANS ACFT EXCEPT ON OFF. BUS. OR IN EMERG. Opers inop 1700 to 0730. No svcg 2000 to 0730. Fld lgts avail. only on advance req. Obst lgts on mtn N of fld inop. (3-1).

VERMONT

BARRE-MONTPELIER ARPT (BERLIN)-Use rnwys only. (8-7)

BURLINGTON ARPT-Use rnwys only. Const E side of N end N/S rnwy. (9-16). This data rcv'd too late for caution symbol.

VIRGINIA

ALBERTA AIRPORT-ENE/WSW strip rough. Ends, sides ENE/WSW, NNW/SSE strips marked by 12' yellow markers. (5-24)

ALTAVISTA AIRPORT-200' NE end of fld unusable in wet weather. (5-23)

BLACKSTONE AAF-Temp inactive. No facs. (See Special Notice re use).

CENTRAL AIRPORT (RICHMOND)-During wet weather use strips only. (5-20).

CHINCOTEAGUE NAAS-Closed 1700 to 0800 except in emerg or on req with 2 hrs notice. Bcn operates all ngt except during local ngt flying with CFR conditions. Bcn turned on during ngt flying in emerg or on req. (9-5)

COLONIAL BEACH AIRPORT-CLOSED (wet - high grass). (8-9)

CROSSROADS AIRPORT (ALEXANDRIA)-CLOSED (const) (4-1)

DAHLGREN NAF PROVING GROUNDS-CLOSED TO ALL TRANS MIL ACFT EXCEPT THOSE ON OFF. BUS. OR IN EMERG. Off. flights must be cleared thru one of the following: Naval Air Stations, Anacostia, D.C; Patuxtent River, Md.; Norfolk, Va.; Quonset Point, R. I.; Cape May, N.J.; Inyokern, Calif.; NAF Torpedo Sta., Newport, R.I.; Naval Acft Factory, Philadelphia, Pa.; Cherry Point MCAS, N.C; Quantico MCAS, Va.; AAF Proving Ground, Eglin Fld. Valpariso, Fla; Langley Fld., Langley, Va.; Wright Fld., Dayton, Ohio; Aberdeen Proving Ground, Aberdeen, Md.; Lakehurst NAS, N.J. 1 rnwy closed. Equip. on fld. Only 1 rnwy avail ngt opers. (8-28).

EMPORIA AIRPORT-Fixed tee, wind sock being lctd on hangar S side fld. Hangar under const. (5-4)

★FENTRESS NAAS-RADIO: Navy twr decomm. (9-4). FLD: Use in emerg only (caretaker status - no facs).

HARCUM AIRPORT-Use NE/SW strip only between yellow cone markers. (6-14)

HOPEWELL AIRPORT-SE portion under const. Equip. on fld. (6-7)

HYBLA VALLEY AIRPORT (ALEXANDRIA)-Surplus Acft Sales Center - parked acft.

LANGLEY FIELD-RADIO: S course of Army range unreliable - 11° W, bearing: 3° AACS ground to air sta temp inop. Army range voice transmission temp inop. (6-25). FLD: Rnwy 12-30 closed ngts. Rnwys 12-30, 2-20 closed to 4-engine acft. Only 100 oct avail. (6-21)

LOVING FIELD-SITE 35A, NASHVILLE-WASHINGTON (PULASKI)-Observe right traffic pattern for landings from SW on NE/SW rnwy. (8-1).

MILFORD (Site 49B, Atlanta-New York)-NE/SW strip unsafe. (5-9)

MONOGRAM NAAS (DRIVERS)-Use in emerg only (caretaker status - no facs).

★NORFOLK-RADIO: VHF voice fac comm at communication stn Sept. 12. Transmits on and gds 116.1 mcs cont. Stn class: SBMRIZ-VDT.

**NORFOLK ARPT-80, 91 oct., sto., minor engine and acft repairs. (9-14) Info. rec'd too late for inclusion on Flight Data pages and Flight Planning charts.

NORFOLK NAS-EAST FID-Shoulders adj perimeter taxiway soft. Pilots on Southbound coastal flights proceeding in accordance with IFR to NAS Norfolk, shall establish radio ctc with twr at NAAS Chincoteague, Va., for further clearance instructions from Navy Norfolk. Pilots on Northbound coastal flights proceeding in accordance with IFR to NAS Norfolk shall establish radio ctc with Navy Weeksville Radio, N/S. (LTA) Weeksville, Elizabeth City, N.C., for further clearance and instructions from Navy Norfolk. Equip on fld. (7-22).

VIRGINIA-Continued.

**NORTHFIELD ARPT (RICHMOND)-2 strips: 1800' N/S; 2000' E/W, both 300' wide. 80 oct, sto, minor engine, acft repairs. (9-4).
OCEANA NAAS-Rnwys, taxi strips under const. Facs avail. 0800 to 1630 Mon thru Fri. Acft clearances not accepted 1630 to 0800 Mon thru Fri. Essential mil flights accepted anytime on prior notification. Equip. on N/S rnwy. (9-9)
**ORANGE COUNTY ARPT (ORANGE)-New fld. 4 mi E;hwy S. Lat 38-14-30, long 78-02 1 strip: 2000 x 300' N/S. (Huntington chart)(9-6)
PETERSBURG ARPT-CLOSED (const).(8-2)
PRESTON GLENN AIRPORT (LYNCHBURG)-Use rnwys only. Contact Lynchburg Radio for landing instructions. Pwr line extension of 2 poles approx 3200' NW of N end E/W rnwy and 3 poles approx 3600 to 3800' W of W end E/W rnwy, unlgtd, unmarked. Tetrahedron free swinging. (5-7).
RICHMOND-Elko Aux. Fld, 5 mi E of Richmond AAB, is similar in design and layout to the Richmond AAB, BUT RNWYS ARE UNSUITABLE FOR LANDING BY ACFT OF ANY TYPE. Care should be taken not to confuse this fld with the Richmond AAB.
RICHMOND-RADIO: Courses aligned by ground check only. (9-3)
RICHMOND AAB-Ltd army svcg facs. No 91 oct. Avoid using 1000' rnwy extensions. Rnwy, taxiway shoulders soft. All acft landing this fld without establishing radio communication with control twr watch carefully for lgt gun signals; control twr lctd in center of triangle of rnwys. Only 73, 100 oct avail. (8-7)
UNIVERSITY OF VIRGINIA AIRPORT (CHARLOTTESVILLE)-Caution in wet weather.
WINCHESTER AIRPORT-E end E/W strip rough. Contact Front Royal Radio or circle fld before landing. (6-7).
WOODRUM FIELD (ROANOKE)-Equip. on fld and adj all rnwys. (5-12).

WASHINGTON

SPECIAL NOTICE-Benton County Danger Area approx 12 mi NW of Pasco is particularly hazardous and all flights must avoid this area. (See Spokane Flight Planning Chart #3, Spokane Sectional, and Washington 5 Danger Area Charts).
ARLINGTON NAAS-Use in emerg only (caretaker status - no facs).
BOEING-RENTON AIRPORT (RENTON)-CLOSED TO ALL EXCEPT MIL ACFT ON OPR. BUS. AT BOEING PLANT.
**CAMERON FLD (KITTITAS)-Only 80 oct. (7-1)
COLVILLE AIRPORT-NW/SE rnwy closed. (1-17)
CONNELL ARPT-18" grass and weeds on fld. (7-17).
COUPEVILLE OLF-CLOSED TO ALL ACFT EXCEPT IN EMERG. Only crash facs avail. Avail. oh 24 hrs advance notice. (11-9)
**CUB COVE ARPT (FITZVILLE)-ABANDONED. (Spokane chart) (7-11)
DOROTHY SCOTT ARPT (OROVILLE)-2' weeds S 1000' N/S strip. (7-1)
★EPHRATA-RADIO: Bear. and dist. stn to Ephrata Arpt: 336°, 3.9 mi (9-12) Courses ground-checked only. (9-14).
★EVERETT-RADIO: Aug 23, Overseas-Foreign Aeronautical Communications Sta discont and re-estab as Interstate Airway Communications Sta at Paine Fld. Everett range ident. and bdcast controlled from Paine Fld. Weather reporting service, teletype designator on circuits A and B and cont receiving watch on 3105,4495,6210,3117.5 kcs inaugurated simultaneously.
FAIRWEATHER FLD (REPUBLIC)-Soft. Cattle on fld. (7-17).
**FELTS FLD (SPOKANE)-CAA twr now operates cont. (9-4). Fancher bcn near Felts Fld inop. Take-offs and landings on sod area should be completed before reaching taxiway near center of fld. (8-28).
GEIGER FIELD (SPOKANE)-Temp inactive. No facs. (See Special Notice re use).
HAFER'S RANCH ARPT (CHEWELAH)-Closed pending decision re abandonment.(7-1)
**HENNE ARPT (KENNEWICK)-Name changed to Twin City Appt. 80,91 oct, sto., maj. engine and acft repairs. (Spokane chart) (7-12).

WASHINGTON-Continued.

**IDWACO ARPT-1 strip: 2000 x 120' NW/SE. 80 oct, sto.(Seattle chart)(7-20) CLOSED (const). (7-20)
**INTERCITY USFS ARPT (WINTHROP)-73,91,oct. (7-1).
KING COUNTY ARPT-BOEING FLD (SEATTLE)-Use rnwys, taxi strips only. Equip adj Rnwy 13-31. 100 oct avail. only. (8-28).
**LaCROSSE (Site 28B, Portland-Spokane)-80 oct. (7-17).
LAKE SAMMAMISH SEAPLANE ANCHORAGE (ISSAQUAH)-CLOSED. (4-26)
**LIND ARPT-No repairs. (7-17)
McCHORD FIELD (TACOMA)-RADIO: Army ILS (CAA type) temp inop. (6-12). FLD: Use rnwys, taxiways only. Equip. on fld. Glide path: bldg 13' high with 25' antenna being erected about 1340' N of S end N/S rnwy and 250' E of Rnwy center line; lgtd ngts. (12-13).
MERCER AIRFLD (BELLEVUE)-Const on taxiway, apron. Alternate temp area avail. E side fld. (9-3).
MOSES LAKE AAF-Temp inactive. No facs. (See Special Notice re use).
MT. CATHERINE (Beacon Site 4, Seattle-Helena)-Beacon inop. (6-12).
MT. VERNON OLF-Closed to all acft except in emerg and for training which requires 24 hrs advance notice thru NAS Whidbey Island. (4-23)
ORCAS ISLAND AIRPORT (EAST SOUND)-Fld flooded. (12-25)
PAINE FLD (EVERETT)-Closed for landings, take-offs sunset to sunrise except by prior arrangement with fld manager. Lgts on req. (7-28)
PASAYTEN USFS ARPT (WINTHROP)-Horses on strips intmtly. (7-1)
PASCO-See Special Notice (first item under state heading).
PASCO NAS-Use in emerg only (caretaker status - no facs).
**PROSSER ARPT-80, 91 oct. (7-19)
PULLMAN-MOSCOW REGIONAL AIRPORT (PULLMAN)-Closed to acft over 10,000 lbs.
**R. C. SUGG ARPT (ORCHARDS)-80 oct,sto, maj.engine and acft repairs.(7-20).
**RITZVILLE ARPT-Correct elev 1800' (Spokane chart) (7-11)
ROSALIA MUN. ARPT-12" grass and weeds. (7-16).
SEATTLE-All acft advised not to fly below or near blimps in Puget Sound area.
★SEATTLE NAS-RADIO: Navy SCS-51 equip decomm. GCA equip operates 1500 to 2330, other times on 30 minutes notice. (8-21). FLD: Approach sta from Kirtland at 1000' alt. Seaplanes landing at NAS, Seattle, approach over Lake Washington from N or S under 200'. Rnwy 14-32 and wind direction indicator lgtd from sunset to sunrise. Rnwy 14R used as taxiway for large multi-engine acft. (6-26).
SEATTLE SKY RANCH (ISSAQUAH)-New strip being const. Acft use sodded portion adj to strip under const. (6-26).
SEATTLE-TACOMA ARPT (SEATTLE)-RADIO: ILS emits localizer signals on 110.3 mcs, boundary and outer marker signals on 75 mcs cont. These signals may at times be spurious and are not to be relied upon for any purpose.(3-14) FLD: Equip on fld days. Const approx 20' N of N end NW/SE rnwy.(8-22).
★SPOKANE AAF-RADIO: AACS, ground to air stn has discont oper on freqs of 4890, 2862 kcs. Stn now operates cont. (9-11). FLD: Use rnwys only.
SULLIVAN LAKE ARPT (METALINE FALLS)-2' grass and weeds. (7-1)
**TOPPENISH ARPT-Correct elev 835'. (Seattle chart) (7-19).
**WALLACE ARPT (MEAD)-Correct lctn: lat. 47-47-30, long. 117-21-45.(Spokane chart) (7-1)
WALLA WALLA AAF-Army opers open 0700 to 1800. No svcg 1700 to 0800. All Blinker lgts on mtns E of fld inop.Equip on fld 0800-1700 Mon thru Fri.
**WASHTUCNA ARPT-Only 80 oct.(7-17)
**WESTPORT ARPT-80 oct. (7-21) Driftwood on fld after extremely high tides. (7-21)

WASHINGTON-Continued

**WHIDBEY ISLAND-Torpedo bombing range has been estab adj E and over Saratoga Passage; bounded on the N by lat 48-13; on the S by lat 48-06; on the E by W shore of Camano Island; on the W by E shore of Whidbey Island.

WHIDBEY ISLAND NAS-AULT FLD (WHIDBEY ISLAND)-Warm-up apron being const W end Rnwy 12-30. Equip. W end Rnwy 8-26. (7-3)

WILBUR AIRPORT-Center 200' strip avail. Equip. on fld. (8-8)

YAKIMA-RADIO: Courses aligned by ground check only. (9-10). 126.1 mc transmitter and receiver inop. (8-22)

WEST INDIES

TRINIDAD-Carlsen Field-Edinburg (North) Rnwy closed to all Navy traffic except in emerg. Use Xeres (South) rnwy.

WEST VIRGINIA

ELKINS AIRPORT-Contact Elkins Radio or circle fld before landing. (7-16)

LOUIS BENNETT AIRPORT (WESTON)-Soft spots after continuous heavy rains. (6-4)

★MORGANTOWN-RADIO: VHF voice fac comm at communication stn Sept 12. Transmits on and guards 116.1 mcs cont. Stn class: BMRLZ-VDT.

PAYNESVILLE-RADIO: Priv H fac operated by PCA 0600 to 2300, use with caution.

SCOTT FIELD (BECKLEY)-Use right hand traffic pattern. (5-7)

WISCONSIN

CLINTONVILLE ARPT-Use strips only. (6-7)

CURTISS-WRIGHT AIRPORT (MILWAUKEE)-Closed ngts. (6-27)

**EAST SIDE ARPT (GREEN BAY)-SO oct. (5-22)

EAU CLAIRE MUN. ARPT-Temp closed. (9-5)

GENERAL MITCHELL FLD (MILWAUKEE)-Equip. on fld days. Right turn procedure rstd to loly based acft. All acft land according to tetrahedron unless otherwise instructed by twr. All pilots must register in Admin Bldg upon arrival and departure. Taxi strip S and fld connecting N/S, NW/SE rnwys closed. Excavated area 40' N ofmiddle and E end E/W rnwy and junction NE/SW, NW/SE rnwys. Ditch digging 40' S of SE end NW/SE rnwy. (9-11)

GINNOW AIRPORT (OMRO)-Use strips only. (6-7)

**GROB ARPT (CEDARBURG)-New fld. 2 mi W Grafton; rd N. Lat 43-19-45, long. 88-00-00. Elev 875'. 3 strips: 2400' N/S; 1800' NE/SW, NW/SE, all 200' wide. Fuel, sto, minor engine and acft repairs. (Milwaukee chart). (8-15)

KENOSHA AIRPORT-Only N bank floodlgts avail. on req. (6-10)

LA CROSSE ARPT-Use rnwys only. Harvesting opers adj to rnwys. (8-3)

★MILWAUKEE-RADIO: Sept 1, VHF voice fac comm at communication stn. Transmits on and guards 116.1 mcs cont. Stn class: MERAZ-VDT.

MONEY AIRPORT (MADISON)-Equip. on fld - portions under const, marked. (4-28)

**NEPCO TRI-CITY ARPT (WISCONSIN RAPIDS)-Bcn, bndry lgts avail. on req. (Green Bay chart). (6-5)

**NICOLET ARPT (DE PERE)-New fld. 1-1/2 mi S; NR R, riv W. Elev 620'. Lat 44-25, long. 88-04. 2 strips: 2240' N/S; 1500' E/W. SO oct, minor acft and engine repairs. No sto. Pole line E. W. (Green Bay chart). (9-4)

PLATTE AIRPORT (PLATTEVILLE)-CLOSED (const). (6-12)

RICE LAKE AIRPORT-Uncompleted portion NE/SW strip rough. (5-22)

RICHLAND CENTER ARPT-Equip. on fld. (8-10)

SHAWANO AIRPORT (SHAWANO)-Use rnwys only. E/W strip under const. (8-5)

SKY HAVEN AIRPORT (MILWAUKEE)-S 1/3 portion N/S strip unusable (washouts) (6-5)

STEVENS POINT AIRPORT-Use rnwys only. (8-9)

TAYLOR CO. ARPT (MEDFORD)-Avail. in emerg only. Very rough. Maintained for small acft only. (6-6)

WISCONSIN-Continued

TOMAH AIRPORT-N/S strip under const. (7-9)

TRUAX FLD (MADISON)-Equip. on fld, unmrkd days. Lgtd ngts. Army temp inactive-civil. facs. (8-15)

VETERANS FLD (MENOMONIE)-Rough. (3-28)

WATERTOWN MUN. AIRPORT-N/S strip soft - use W part of sod when wet. (4-10)

WINNEBAGO COUNTY AIRPORT (OSHKOSH)-Use rnwys only. (8-20)

WYOMING

CASPER AAF-Temp inactive-no facs. (See Special Notice re use).

CHEYENNE ARPT-Equip. on fld intmtly. (7-20)

GENERAL BREES FLD (LARAMIE)-Equip. on rnwys days. (6-9)

JACKSON MUN. ARPT-Cattle on fld intmtly. (5-20)

★ROCK SPRINGS-RADIO: Bear. and dist, stn to Rock Springs Arpt: 246°, 2.8 mi. (9-12)

SHERIDAN COUNTY AIRPORT (SHERIDAN)-N/S rnwy unsafe heavy acft. Taxi stripe parallel all rnwys except N/S rnwy and terminate at ramp. Stay on pavement. Equip. on fld. (5-8)

**WARDWELL FLD (CASPER)-Correct elev 5346', (Casper chart). (8-30). Use rnwys, taxi strips only, bal fld rough. (7-15)

INSTRUMENT APPROACH PROCEDURES Supplement

Including new procedures and corrections or revisions to procedures already established.

STATION	MINIMUM INITIAL APPROACH ALTITUDE	SHUTTLE	FINAL APPROACH COURSE	PROCEDURE TURN MINIMUMS	MINIMUM ALTITUDE OVER RANGE FINAL APPROACH	STATION TO AIRPORT MAG. BEAR.	STATION TO AIRPORT DIST. (MI.)	MINIMUM LETDOWN ALTITUDE OVER AIRPORT	VISIBILITY MINIMUMS DAY	VISIBILITY MINIMUMS NIGHT	IF CONTACT NOT ESTABLISHED OVER AIRPORT, REMARKS
ALMA, GA. CAA Int. Field El. 200'	NE-Min. enroute alt. SE-1500' (Jacksonville Rng) SW-Min. enroute alt. NW-1500' (Maçon Range)										
ALTOONA, PA. Altoona-Blair Co. Airport El. 1495'	N-4000' (Int.SE course Philipsb'g) E-4000' (Int.SE course " S-4000' (Int.SE course Pittsburgh) W-4500' (Int.NE course "	None	N	10 mi.-3600' W side N course 15 mi.-3700' " 20 mi.-3700' " 25 mi.-3700' "	3100'	203°	1.3	2995'	1	2	Climb to 4000' on S course
AUSTIN, TEXAS Robert Mueller Arpt.	NE-2500' (Int.SE course Waco) SE-Min. enroute alt. SW-2500' (Int.N course San Antonio) NW-2500' (Int.N course "										
BUFFALO, N. Y. Buffalo Airport Procedure No. 1	NE-2000' (Int.W course Rochester) E-3000' (Int.S course Rochester) E-2200' (East Pembroke FM) SW-2100' (Int.E course Clear Crk) W-2100' (Int.NE course "			10 mi.-1800' N side NE course 15 mi.-1800' " 20 mi.-2000' " 25 mi.-2000' "	1350'						Climb to 2100' on SW course
Procedure No. 2	SW-2100' (Int.E course " SW-1600' (Angola FM,final)	None	SW		Cheektowaga LFM 1600'	50°	2.7	1212'	1	2	Climb to 2000' on NE course
CHICAGO, ILL. Chicago Airport											Proceed S on N course of Harvey range, climbing to 2000'
CINCINNATI, OHIO Lunken Airport	NE-2600' (Int.E course Patterson NE-1600' (Loveland FM,final) Rng) SE-2300' (Int.S course Columbus SE-2000' (Mt. Orab FM) Rng) SW-2500' (Louisville Range) SW-2300' (Union FM) NW-2300' (Int.E course Indianapolis Range) NW-2200' (Cedar Grove FM)			10 mi.-2100' N side NE course 15 mi.-2600' " 20 mi.-2600' " 25 mi.-2600' "	1600'	227°	5.2				Climb to 2500' on SW course.1000' hills SW and NW.Twr 1235' MSL located 2.5 mi.N of SW course,13 mi. from range.
CLEVELAND, OHIO Cleveland Airport	E-2500' (Int.NE course Akron Rng) SE-2700' (Akron Range) SE-2500' (North Royalton LFM) W-1900' (Int.NW course Akron Rng) W-1400' (Elyria FM, final) NW-1900' (Windsor Range)										
COLUMBIA, S.C. Owens Field	E-1500' (Int.SW course Florence) SE-1600' (Int.NW course Charleston) W-2000' (Int.NE course Augusta) NW-Min. enroute alt.										Climb to 2000' on NW course within 25 mi.
Columbia AAB	E-1500' (Int.SW course Florence) SE-1500' (Int.NW course Charleston) W-2000' (Int.NE course Augusta) NW-Min. enroute alt.										Climb to 2000' on W course.
COLUMBUS, OHIO Port Columbus-MAS	NE-2500' (Cleveland Range) NE-2300' (Mt. Liberty FM) E-2600' (Pittsburgh Range) E-2200' (Newark FM) S-2500' (Int. NW course Huntington Rng) W-2300' (Int.N course Patterson Rng) W-1800' (Hilliard FM, final)										Climb to 2600' on E course.

STATION	MINIMUM INITIAL APPROACH ALTITUDE	SHUTTLE	FINAL APPROACH COURSE	PROCEDURE TURN MINIMUMS	MINIMUM ALTITUDE OVER RANGE—FINAL APPROACH	STATION TO AIRPORT: MAG. BEAR.	STATION TO AIRPORT: DIST. (MI.)	MINIMUM LETDOWN ALTITUDE OVER AIRPORT	VISIBILITY MINIMUMS: DAY	VISIBILITY MINIMUMS: NIGHT	IF CONTACT NOT ESTABLISHED GO TO AIRPORT, MINIMA
EPHRATA, WASH. Ephrata Airport El. 1258'	N-Min. enroute alt. E-5000' (Spokane Range) E-3500' (Harrington FM) S-Min. enroute Alt. W-7000' (Ellensburg Range)	None	S	10 mi.-2500' E side S course 15 mi.-2500' " 20 mi.-2500' " 25 mi.-3000' "	2058'	336°	3.9	2058'	2	2	Turn right and climb to 5000' on E course. Hills to W of airport.
FARGO, N. DAK. Fargo-Hector Arpt. El. 899'	N-2200' (Grand Forks Range) SE-2900' (Alexandria Range) W-2600' (Jamestown Range) E-Min. enroute alt. W-2200' (Wheatland FM)				1700'	260°	0.9	1399'	1	2	Climb to 2600' on W course. 1170' twrs 5 mi. SW of range.
HARTFORD, CONN. Brainard Field El. 19'	NE-2400' (Int.SE course Westfld) SE-Min. enroute alt. SW-2300' (Int.SW course Westfld) NW-2300' (Int.SW course "					323°	2.3	619'	1	2	Climb to 2300' on NW course.
Rentschler Field El. 40'	NE-2400' (Int.SE course " SE-Min. enroute alt. SW-2300' (Int.SW course Westfld) NW-2300' (Int.SW course "	None	SE	10 mi.-2000' N side SE course 15 mi.-2100' " 20 mi.-2100' " 25 mi.-2100' "	1500'	10°	2.4				Climb to 2300' on NW course.
HOULTON, MAINE Houlton Airport	N-2700' (Int.E course Presque Isle) E-Min. enroute alt. S-2300' (Int.E course Millinocket) W-2600' (Int.S course Presque Isle)			10 mi.-2000' E side N course 15 mi.-2000' " 20 mi.-2700' " 25 mi.-2700' "		195°	3.1				Climb to 2300' on S course.
HURON, S. DAK. W.W. Howes Airport El. 1287'	NE-3000' (Watertown Range) SE-3000' (Sioux Falls Range) SW-Min. enroute alt. NW-Min. enroute alt.	None	SW	10 mi.-2500' S side SW course 15 mi.-2500' " 20 mi.-2500' " 25 mi.-2500' "	2000'	44°	2.7	1787'	1	2	Climb to 3000' on NE course. City Huron & obsts S of airport.
JAMESTOWN, N.DAK. Jamestown Airport El. 1493'	N-Min. enroute alt. E-2600' (Fargo Range) S-Min. enroute alt. W-3400' (Bismarck Range)	None	E	10 mi.-2600' N side E course 15 mi.-2600' " 20 mi.-2600' " 25 mi.-2600' "	2100'	253°	1.5	2093'	2	2	Proceed out W course, climbing to 3400'.
JOLIET, ILL. Joliet Airport El. 580'											
KLAMATH FALLS, ORE. Klamath Falls Arpt. El. 4085'	N-10,000' (Redmond Range) N-8500' (Int.E course Medford) E-Min. enroute alt. S-8000' (Int.E course Ft.Jones) W-9000' (Int.S course Medford)				5600'			5085'	1	2	Turn left and climb to 8000' on S course. 6800' terrain directly on S course approx. 20 mi. from range station.
MEDFORD, ORE. Medford AAF	N-6500' (Eugene Range) N-3000' (Trail FM, final) E-11,000' (Int.N course Klamath Falls) S-9000' (Fort Jones Range) S-7000' (Int.W course Klamath Falls) W-Min. enroute alt.				3000'						Make 180° right turn to N course climbing to 6500'
MIAMI, FLA. Miami International-AAF El. 9'	N-1500' (West Palm Beach Range) N-1200' (Ft.Lauderdale FM) E-Min. enroute alt. E-800' (Miami Bay Shore FM, final) S-Min. enroute alt. W-1500' (Int.SE course Ft. Myers)										
MILLINOCKET, ME. Millinocket Arpt.	NE-3900' (Int.W course Houlton) E-2300' (Int.S course Houlton) SW-2500' (Int.NW course Bangor) W-4900' (Int.NW course Bangor)		E	10 mi.-1700' N side E course 15 mi.-1900' " 20 mi.-1900' " 25 mi.-1900' "							

STATION	MINIMUM INITIAL APPROACH ALTITUDE	SHUTTLE	FINAL APPROACH COURSE	PROCEDURE TURN MINIMUMS	MINIMUM ALTITUDE OVER RANGE—FINAL APPROACH	STATION TO AIRPORT MAG. BEAR.	STATION TO AIRPORT DIST. (MI.)	MINIMUM LETDOWN ALTITUDE OVER AIRPORT	VISIBILITY MINIMUMS DAY	VISIBILITY MINIMUMS NIGHT	IF CONTACT NOT ESTABLISHED OVER AIRPORT, REMARKS
PANAMA CITY, FLA. Tyndall Field	NE-1200' (Int. SE course Dothan) SE-Min. enroute alt. SW-Min. enroute alt. NW-1200' (Int. E course Eglin)										
PENDLETON, ORE Pendleton Field El. 1492'	E-Min. enroute alt. SE-10,000' (Baker Range) SE-4000' (Cabbage Hill FM) W-Min. enroute alt. NW-Min. enroute alt.	None	E	10 mi.-3000' N side E course 15 mi.-5000' " 20 mi.-6000' " 25 mi.-6000' "	2500'	247°	2.3	2092'	1	1	Climb to 4000' on W course within 25 mi. of range.
PITTSBURGH, PA. Allegheny Co. Arpt	E-4000' (Int. N course Altoona) E-2500' (New Alexandria FM) SE-4000' (Int. S course Altoona) SE-2500' (Mt. Pleasant FM) W-3000' (Columbus Range) W-2000' (Cecil FM, final) NW-3000' (Int. S course Youngstown) NW-2500' (Hookstown FM)										
Bettis Airport	SAME AS ABOVE										
PORTLAND, ORE. Portland AAB	N-4500' (Toledo Range) N-1500' (Woodland FM, final) E-6000' (The Dalles Range) E-3000' (Washougal FM) S-3000' (Eugene Range) W-Min. enroute alt.)										Climb to 3000' on S course. Emergency alt. 15,500'
RAPID CITY, S.DAK. Rapid City AAB											Climb to 6000' on N course within 25 mi. of range station.
ROCK SPRINGS, WYO. Rock Springs Arpt. El. 6751'	N-Min. enroute alt. E-10,000' (Sinclair Range) E-8500' (Point of Rocks FM, final) S-Min. enroute alt. W-10,000' (Ft. Bridger Range)										Climb at 500 FPM to 10,000' on W course.
ROCHESTER, N.Y. Rochester Arpt. El. 549'	N-2000' (Int. S course Sterling) E-2200' (Int. S course " S-3500' (Int. NW course Elmira) W-2000' (Int. NE course Buffalo)			10 mi.-2200' N side E course 15 mi.-2200' " 20 mi.-2200' " 25 mi.-2200' "							Climb to 2000' on W course. 1120' tower 4 mi. S of E course 11 mi. from range.
TALLAHASSEE, FLA. Dale Mabry Field	N-Min. enroute alt. E-1500' (Jacksonville Range) S-Min. enroute alt. NW-1500' (Int. SE course Dothan)										
TULSA, OKLA. Tulsa Airport	NE-2200' (Int. S course Joplin Rng) NE-1500' (Verdigris FM, final) SE-Min. enroute alt. SW-2200' (Int. E course Oklahoma City Range) SW-2000' (Red Fork FM) NW-2200' (Int. S course Wichita Rng) NW-2000' (Skiatook FM)										
WALNUT RIDGE, ARK. Walnut Ridge Arpt. El. 275'	N-2000' (Int. W course Advance) E-2000' (Int. N course Memphis) S-Min. enroute alt. W-Min. enroute alt.	None	N	10 mi.-1500' W side N course 15 mi.-1500' " 20 mi.-1500' " 25 mi.-1500' "	900'	1¾°	5.0				Climb to 2000' on S course within 25 mi. of range.

STATION	MINIMUM INITIAL APPROACH ALTITUDE	SHUTTLE	FINAL APPROACH COURSE	PROCEDURE TURN MINIMUMS	MINIMUM ALTITUDE OVER RANGE FINAL APPROACH	STATION TO AIRPORT: MAG. BEAR.	STATION TO AIRPORT: DIST. (MI.)	MINIMUM LETDOWN ALTITUDE OVER AIRPORT	VISIBILITY MINIMUMS: DAY	VISIBILITY MINIMUMS: NIGHT	IF CONTACT NOT ESTABLISHED OVER AIRPORT, REMARKS
WASHINGTON, D.C. Anacostia NAS	NE-1500' (Int.W course Baltimore) SE-1500' (Int.S course " SW-1500' (Int.SE course Quantico) SW-1000' (Mt. Vernon FM) SW-700' (Alexandria LFM,final) NW-1800' (Int.E course Front Royal)										Climb to 1500' on NE course.Obsts 350' E of fld.450' obsts just W of SW course 3 mi. from range.
Bolling (A)	IDENTICAL TO ABOVE					*80°	1.2				*If not contact within 2 mi.from range on 41° heading,climb to 1500' on NE course.Obsts,350' E of fld.450' obsts just W of SW course 3 mi. from range.
Washington Nat'l Arpt.	IDENTICAL TO ABOVE					25°	0.9				Climb to 1500' on NE course.450' obsts just W of SW course 3 mi. from range.
WILKES-BARRE, PA. Wilkes-Barre-Wyoming Valley Airport	NE-3400' (Int.SE course Elmira) SE-3400' (Allentown Range) SW-3400' (Int.E course Williamsport) N-3500' (Int. SE course Elmira)					243°	2.6	2046'	2	NA	Climb to 3400' on SW course.

AERONAUTICAL CHARTS

U. S. Coast and Geodetic Survey

Dates of Latest Prints

Dates in small type indicate minor changes which are not of sufficient importance to make the previous print obsolete.
All charts carrying dates older than those shown in large type on this list are obsolete for use in flight.

SECTIONAL

Aberdeen	Dec. 11, 1945	May 31, 1946	Denver	Mar. 5, 1946		Lewiston	July 2, 1946		Reno	May 17, 1945	Feb. 19, 1946
Albany	July 9, 1946		Des Moines	June 12, 1946		Lincoln	June 6, 1946		Roswell	Mar. 5, 1946	
Albuquerque	Feb. 19, 1946		Detroit	July 11, 1946		Little Rock	Mar. 19, 1946		Sacramento	Feb. 5, 1946	
Anacostia	June 26, 1946		Douglas	July 27, 1946		Los Angeles	Feb. 19, 1946		Salina	Mar. 5, 1946	
Austin	Aug. 11, 1946		Dubuque	Oct. 2, 1945	June 18, 1946	Miami	Aug. 8, 1946		Salt Lake City	Aug. 30, 1945	May 17, 1946
Beaumont	July 25, 1946		Duluth	Jan. 8, 1946	June 6, 1946	Miles City	May 13, 1946		San Antonio	July 30, 1946	
Bellingham	Apr. 30, 1946		Elko	May 4, 1946		Milwaukee	June 16, 1946		San Diego	Feb. 19, 1946	
Birmingham	April 2, 1946		El Paso	July 25, 1946		Minot	June 6, 1946		San Francisco	Feb. 19, 1946	
Boise	Apr. 30, 1946		Fargo	May 29, 1946		Mobile	Aug. 6, 1946		Savannah	April 2, 1946	
Boston	July 2, 1946		Glacier Park	April 26, 1945	May 7, 1946	Mt. Shasta	May 3, 1945	May 3, 1946	Seattle	Apr. 30, 1946	
Burlington	June 24, 1946		Grand Canyon	Feb. 19, 1946		Mt Whitney	Feb. 19, 1946		Shreveport	Mar. 19, 1946	
Butte	May 15, 1946		Grand Junction	Feb. 19, 1946		Nashville	April 2, 1946		Sioux City	May 31, 1946	
Casper	May 20, 1946		Green Bay	June 12, 1946		New Orleans	Aug. 6, 1946		Spokane	May 10, 1946	
Charlotte	April 2, 1946		Huntington	Nov. 27, 1945	April 2, 1946	New York	July 2, 1946		Trinidad	Mar. 5, 1946	
Chattanooga	April 2, 1946		Jacksonville	Aug. 11, 1946		Norfolk	Apr. 16, 1946		Tulsa	Mar. 19, 1946	
Cheyenne	Aug. 30, 1945	May 24, 1946	Kansas City	Mar. 19, 1946		Oklahoma City	Mar. 19, 1946		Twin Cities	May 31, 1946	
Chicago	June 17, 1946		Klamath Falls	Apr. 30, 1946		Orlando	Aug. 6, 1946		Washington, D.C.	Apr. 16, 1946	
Cincinnati	April 2, 1946		Kootenai	April 19, 1945	Apr 16, 1946	Phoenix	Mar. 5, 1946		Wichita	Mar. 5, 1946	
Cleveland	June 24, 1946		La Grande	May 3, 1945	May 9, 1946	Pocatello	May 27, 1946		Williston	May 3, 1945	May 9, 1946
Corpus Christi	Aug. 6, 1946		Lake Huron	June 25, 1946		Portland	Apr. 30, 1946		Winston-Salem	April 2, 1946	
Dallas	Mar. 5, 1946		Lake Superior	June 13, 1946		Prescott	Mar. 5, 1946		Yellowstone Park	Oct. 30, 1945	May 13, 1946
Del Rio	Jan. 22, 1946	July 23, 1946	Lake of Woods	May 24, 1946		Rapid City	May 3, 1945	May 17, 1946			

WORLD AERONAUTICAL · UNITED STATES

WAC 215	May 9, 1946	WAC 266	May 29, 1946	WAC 309	July 13, 1946	WAC 364	Mar. 5, 1946	WAC 467	Feb. 5, 1946		
WAC 216	May 17, 1946	WAC 267	May 24, 1946	WAC 310	Jan. 8, 1946	WAC 404	Mar. 5, 1946	WAC 468	July 30, 1946		
WAC 217	June 4, 1946	WAC 268	June 12, 1946	WAC 357	Apr 30, 1946	WAC 405	Mar 5, 1946	WAC 469	July 25, 1946		
WAC 218	June 17, 1946	WAC 269	May 10, 1946	WAC 358	Apr. 16, 1946	WAC 406	Mar. 19, 1946	WAC 470	July 17, 1946		
WAC 219	June 13, 1946	WAC 304	May 29, 1946	WAC 359	Apr 16, 1946	WAC 407	Apr. 2, 1946	WAC 471	July 15, 1946		
WAC 262	June 26, 1946	WAC 305	May 13, 1946	WAC 360	Apr. 2 1946	WAC 408	Apr. 2, 1946	WAC 522	July 29, 1946		
WAC 263	June 18, 1946	WAC 306	May 29, 1946	WAC 361	Apr 2, 1946	WAC 409	Apr. 16, 1946	WAC 525	Feb. 19, 1946		
WAC 264	July 10, 1946	WAC 307	June 6, 1946	WAC 362	Mar. 5, 1946	WAC 410	Apr. 16, 1946				
WAC 265	June 12, 1946	WAC 308	June 12, 1946	WAC 363	Mar 5, 1946	WAC 466	Feb. 5, 1946				

RADIO DIRECTION FINDING

21-DF	July 8, 1946	23-DF	Mar. 5, 1946	25-DF	Apr. 2, 1946
22-DF	July 22, 1946	24-DF	May 14, 1946	26-DF	May 19, 1946

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Miami	July 3, 1946	New York and Vicinity	Aug. 6, 1946
Brownsville	July 8, 1946	San Diego	Feb. 19, 1946

WORLD AERONAUTICAL · ALASKA

WAC 62	Feb. 1946	WAC 77	Oct. 1944	WAC 135	Mar. 1946	WAC 139	Mar. 1946	WAC 192	Mar. 1946
WAC 63	May 1946	WAC 117	Dec. 1944	WAC 136	May 1946	WAC 186	Mar. 1946	WAC 193	Mar. 1946
WAC 64	Mar. 1946	WAC 118	May 1945	WAC 137	Mar. 1946	WAC 190	Apr 1946		
WAC 76	May 1946	WAC 119	Jan. 1946	WAC 138	May 1946	WAC 191	Apr. 1946		

New editions of the charts listed below will be published in about one month, making former prints obsolete for use in aviation. Orders for these particular charts should be kept to a minimum for immediate requirements. As soon as the charts are available for distribution a second notice will appear in this publication.

Dallas, Oklahoma City, Roswell, Salina: WAC 362, WAC 404, WAC 405; 23 DF; San Diego Local.

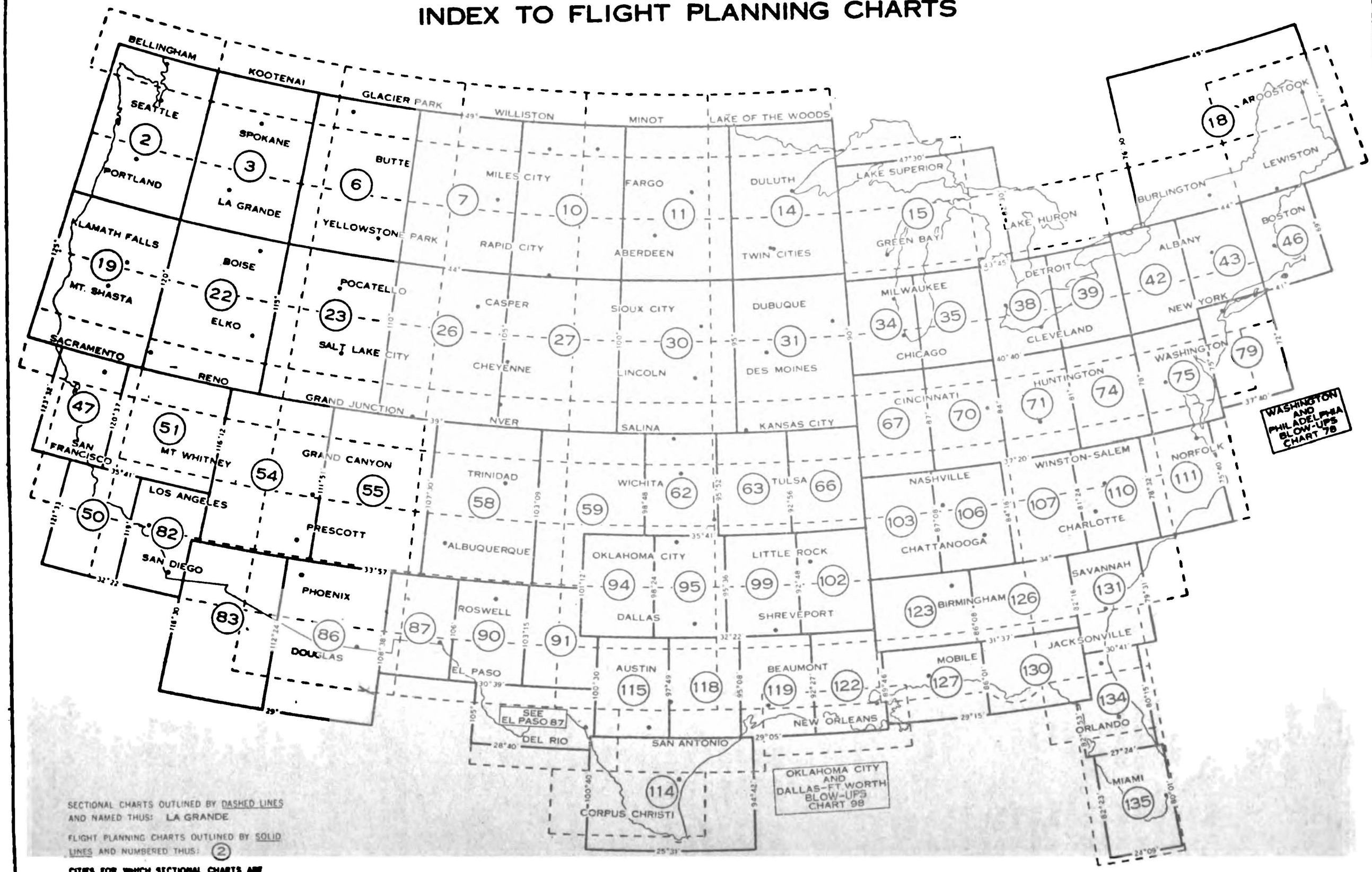
A new edition (or chart) of the charts listed below which make former prints obsolete is now available for use. Former prints should be destroyed or stamped "OBSOLETE FOR USE IN AVIATION".

NEW CHARTS: OP67-Burbank, Calif., Lockheed Air Terminal; OP206-Jackson, Miss., Airport; OP227-Las Vegas, Nev., AAF; OP237-Los Angeles, Calif., Mines Field; OP294-Oakland, Calif., Airport; AL247-Marfa, Tex., AAF; AL406-Blytheville, Ark.,Steele Field; AL476-Wildwood, N.J., Airport; AL490-Fort Sumner, N.Mex., Airport; AL590-Idaho Falls, Idaho, Airport; AL591-La Grande, Ore., Airport; AL614-Niagara Falls, N.Y., Airport; AL621 Bridgeport, Conn., Airport.

NEW EDITIONS: Jacksonville-Aug.11,1946,Miami-Aug.8,1946,Mobile-Aug.6,1946,Orlando-Aug.6,1946; FC4-July 23, 1946, FC173-May 24, 1946, FC-216-May 17, 1946, FC222-May 13, 1946, FC234-May 31, 1946; AL4-Aug. 6, 1946, AL24-July 23, 1946, AL53-July 31, 1946, AL58-Aug. 6, 1946, AL60-Aug. 20, 1946, AL67-Aug. 6, 1946, AL68-Aug. 6, 1946, AL81-Aug. 6, 1946, AL104-Aug.6, 1946, AL148-Aug.6, 1946, AL179-July 26, 1946, AL191-Aug.6, 1946, AL197-July 30, 1946, AL236-Aug.6, 1946, AL254-Aug. 6, 1946; AL259-Aug.20, 1946, AL312-Aug. 13, 1946, AL316-Aug. 6, 1946, AL327-Aug. 5, 1946, AL-401-Aug.6,1946, AL407-July 26,1946, AL418-Aug.8, 1946, AL-422-Aug.6,1946, AL434-Aug. 6, 1946, AL473-Aug.6, 1946, AL497-Aug. 6, 1946, AL524-July 26, 1946, AL534-Aug. 6, 1946.

When ordering charts from the U.S. Coast and Geodetic Survey, correct remittances should accompany all orders. Sectional Charts should be ordered by name; World Air Charts by number with the prefix (WAC); Approach and Landing Charts by number with the prefix (AL); Route Charts by number with the prefix (PC). The above charts are priced at 25¢ each with the exception of Approach and Landing Charts which are priced at 5¢ each.

INDEX TO FLIGHT PLANNING CHARTS



SECTIONAL CHARTS OUTLINED BY DASHED LINES AND NAMED THUS: LA GRANDE

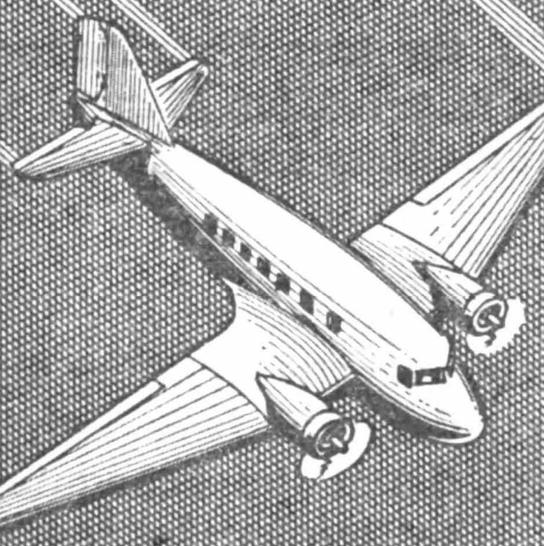
FLIGHT PLANNING CHARTS OUTLINED BY SOLID LINES AND NUMBERED THUS: (2)

CITIES FOR WHICH SECTIONAL CHARTS ARE NAMED INDICATED THUS: ●

IMPORTANT

See Announcement on Back Page

AIRMAN'S GUIDE



NOTICES TO AIRMEN
DIRECTORY OF AIRPORTS
AIR NAVIGATION RADIO AIDS

RECEIVED
OCT 21 1948
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VOL. 1, NO. 14 . . . OCTOBER 1, 1946
This issue includes all data on record as of 0001 E. S. T. on the date above. For later information consult teletype NOTAMS.

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
OFFICE OF AVIATION INFORMATION

SPECIAL NOTICE

AIRMAN'S GUIDE PUT ON "FOR SALE" BASIS OCTOBER 15

REFERENCE COPIES WILL BE AVAILABLE FREE AT AIRPORTS, TOWERS AND CAA COMMUNICATIONS STATIONS AND OFFICES

Effective October 15, the free distribution of the bi-weekly Airman's Guide and the semi-annual Flight Information Manual will be limited to all continental U. S. airports, CAA communications stations and CAA towers, where they will be accessible for consultation.

Because of increased costs of printing and limited appropriations, it is necessary that the CAA discontinue the free distribution of these publications to private flying interests, scheduled and non-scheduled carriers, and other non-governmental aviation activities. The October 1st issue, therefore, will be the last free issue to these groups.

With constantly increasing aviation activity and the certification of thousands of pilots, all eligible to receive these publications, the free distribution list has increased far beyond budgetary allotments.

These publications, however, will be made available on a for sale basis, both by single copies and annual subscription, from the Superintendent of Documents, Government Printing Office, which has set the price for single copies of the Airman's Guide at 30 cents each, and the Flight Information Manual at 15 cents each. The Superintendent of Documents also has set the annual subscription price of $7.50 to cover 26 bi-weekly copies of the Guide and the two semi-annual issues of the Flight Information Manual. Where bulk subscriptions of 100 or more are made, there will be a 25% reduction in price.

The decision to eliminate the gratis distribution of these two publications was reached by the CAA reluctantly, following thorough exploration of alternate possibilities with representatives of the Aircraft Industries Association, Air Transport Association, Aircraft Owners and Pilots Association, United Pilots and Mechanics Association, and the National Aeronautics Association. At the conferences these organizations expressed the feeling that limitation of distribution might be detrimental to safety, but the CAA has been unable to find any means of financing continued publication other than to place these manuals on sale, with free distribution to all continental U. S. airports, CAA communications stations, and CAA towers.

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Jerome (23)
Kamiah (3)
Kellogg (3)
Knox (3)*
Lake (6)
Lewiston (3)
McCall (3)
Mackay (23)*
Malad City (23)
Montpelier (23)
Mountain Home (22)
Nampa (22)
Orofino (3)
Paris (23)
Parma (22)
Payette (3)
Pocatello (23)
Preston (23)
Priest River (3)*
Red River H. Sprgs. (6)
Rexburg (23)
Richfield (23)
St. Anthony (23)
St Maries (3)
Salmon (6)
Sandpoint (3)
Shoshone (23)
Strevell (23)
Tensed (3)
Tyhee (23)
Twin Falls (23)
Victor (23)*
Weiser (3)

ILLINOIS

Alexander (31)
Alton (142)
Arcola (67)
Armington (67)
Ashburn (34)
Aurora (139)
Beardstown (31)
Belleville (142)
Bensenville (135)
Bloomington (67)
Blue Island (139)
Blue Mound (67)
Bradford (34)
Cairo (103)
Carbondale (67)
Carmi (67)
Carthage (31)
Champaign (67)
Charleston (67)
Chesterfield (31)
Chicago (139)
Chicago Heights (139)
Clinton (67)
Dalton City (67)
Danville (67)
Decatur (67)
De Kalb (34)
Des Plaines (139)
Dixon (34)
Du Quoin (67)
East St. Louis (142)
Effingham (67)
Elgin (34)
Elmhurst (139)
Fairfield (67)
Flatt (31)
Franklin Park (34)
Freeport (34)
Galesburg (31)
Glenview (34)
Grayslake (34)
Harvey (139)
Havana (31)
Highland (67)
Hillsboro (67)
Hinsdale (139)
Homewood (139)
Hoopeston (67)
Jacksonville (31)
Jerseyville (31)
Joliet (139)
Kankakee (34)
La Grange (139)
Lansing (139)
La Salle (34)
Lawrenceville (67)
Lebanon (67)
Lockport (139)
Lombard (139)
Macomb (31)
Marion (67)
Mattoon (67)
Mendota (34)
Moline (31)
Momence (34)
Monmouth (31)
Morris (34)
Mt. Carmel (67)
Mt Vernon (67)
Muddy (67)
Murphysboro (67)
Newark (34)
Northbrook (34)
Oaklawn (139)
Olney (34)
Paris (67)
Pecatonica (34)
Pekin (67)
Peoria (34)
Prairie du Rocher (66)
Princeton (34)
Quincy (31)
Rantoul (67)
Rochester (67)
Rockford (34)
Rochester (67)
Rockford (34)
St. Charles (139)
St. David (31)
St Elmo (67)
Salem (67)
Shelbyville (67)
Sheldon (34)
South Beloit (34)
Springfield (67)
Steger (34)
Sterling (34)
Stockton (34)
Streator (34)
Sycamore (34)
Taylorville (67)
Tinley Park (139)
Tuscola (67)
Urbana (67)
Utica (34)
Vandalia (67)
Van Orin (34)
Warren (34)
Wauketon (34)

INDIANA

Advance (70)
Anderson (70)
Angola (35)
Attica (67)
Auburn (35)
Borgersville (70)
Bedford (70)
Bloomingdale (67)
Bloomington (67)
Bluffton (35)
Brownsburg (70)
Bunker Hill (70)
Cedar Grove (70)
Cedar Lake (34)
Chalmers (35)
Clayton (70)
Columbus (70)
Connersville (70)
Crawfordsville (70)
Crown Point (34)
Culver (35)*
Decatur (35)
Demotte (34)
Elkhart (35)
Elwood (70)
Evansville (67)
Fortville (70)
Fort Wayne (35)
Frankfort (70)
Franklin (70)
French Lick Sprgs(70)
Gary (139)
Goshen (35)
Greencastle (70)
Greenfield (70)
Greensburg (70)
Greenwood (70)
Hobart (139)
Huntingburg (70)
Huntington (35)
Indianapolis (70)
Jeffersonville (70)
Kentland (34)
Kingman (67)
Knox (35)
Kokomo (70)
Lafayette (70)
La Fontaine (18)
Lagoda (70)
Lake Village (34)
Lapel (70)
La Porte (35)
Lawrenceburg (70)
Lebanon (70)
Linton (67)
Lizton (70)
Logansport (35)
Lowell (34)
McCool (139)
Madison (70)
Marion (70)
Medaryville (35)
Michigan City (35)
Milroy (70)
Mishawaka (35)
Monticello (35)
Mooresville (70)
Morgantown (70)
Mount Vernon (67)
Muncie (70)
New Carlisle (35)
New Castle (70)
Noblesville (70)
North Manchester (35)
Notre Dame (35)
Oaktown (67)
Ockley (70)
Orleans (70)
Perrysville (67)
Peru (35)
Plainfield (70)
Plymouth (35)
Portland (70)
Ramsey (70)
Rensselaer (34)
Richland (67)
Richmond (70)
Rochester (35)
Rushville (70)
Salem (70)
Scottsburg (70)
Selma (70)
Seymour (70)
Shelbyville (70)
Sheridan (70)
Shoals (70)
South Bend (35)
Terre Haute (67)
Valparaiso (70)
Vevay (70)
Vincennes (67)
Wabash (35)
Warbaw (35)
Washington (67)
Wellsboro (35)
West Lebanon (67)
Winchester (70)
Yorktown (70)
Zionsville (70)

IOWA

Adair (31)
Algona (31)
Anita (31)
Ames (31)
Armstrong (31)
Atlantic (30)
Audubon (30)
Bellevue (31)
Burlington (31)
California (30)
Carroll (31)
Cedar Rapids (31)
Centerville (31)
Chariton (31)
Cherokee (30)
Clarinda (30)
Clarion (31)
Clermont (31)
Clinton (31)
Columbus Jct.(31)
Conrad (31)
Council Bluffs (30)
Creston (31)*
Davenport (31)(143)
Decorah (31)
Denison (30)
Des Moines (31)
Dows (31)
Dubuque (31)
Dyersville (31)
Earlham (31)
Eldora (31)
Emmetsburg (31)
Estherville (31)
Fiscus (30)
Floyd (31)
Fort Dodge (31)
Glenwood (30)
Grimes (31)
Grinnell (31)
Grand Mound (31)*
Grundy Center (31)
Guthrie Center (31)
Hancock (30)
Harlan (30)
Ida Grove (30)
Iowa City (31)
Iowa Falls (31)
Jefferson (31)
Keokuk (31)
Lake City (31)
Lamoni (31)
Le Mars (30)
Leon (31)
Lucas (31)
Manning (30)
Marshalltown (31)
Mason City (31)
Mechanicsville (31)
Melbourne (31)
Milford (30)
Missouri Valley (30)
Moneta (30)
Monroe (31)
Montezuma (31)
Mt. Ary (31)
Mt. Pleasant (31)
Muscatine (31)
Newton (31)
Ocheydean (30)
Onawa (30)
Ottumwa (31)
Pella (31)
Perry (31)
Pocahontas (31)
Randolph (30)*
Red Oak (30)
Rock Rapids (30)
Sac City (31)
Seymour (31)
Sheldon (30)
Sioux City (30)
Sloah (30)
Spencer (30)
Spirit Lake (30)
Storm Lake (30)
Strawberry Point (31)
Stuart (31)
Sutherland (30)
Traer (31)
Washington (31)
Waterloo (31)
Webster City (31)
Wesley (31)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data.
Seaplane Bases are not charted.

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Abilene (62)
Anthony (62)
Arkansas City (62)
Ashland (59)
Atwood (27)
Augusta (62)
Belleville (30)
Beloit (30)
Bern (30)
Brewster (27)
Caldwell (62)
Cassoday (62)
Cedar Point (62)
Chanute (63)
Clay Center (30)
Coffeyville (63)
Colby (27)
Coldwater (59)
Concordia (30)
Derby (62)
De Soto (31)
Dodge City (59)
Downs (30)
Edwardsville (31)
El Dorado (62)
Ellinwood (62)
Emporia (62)
Eureka (62)
Ft. Leavenworth (31)
Ft. Riley (30)
Fort Scott (63)
Garden City (59)
Gardner (63)*
Garnett (63)*
Girard (63)
Goodland (27)
Great Bend (59,62)
Greensburg (59)
Hays (59)
Hazelton (62)
Herington (62)
Hiawatha (30)
Hoisington (62)
Holton (30)
Holyrood (62)
Hutchinson (62)
Independence (63)
Iola (63)
Johnson (59)
Kansas City (31)
Kechi (62)
Kingman (62)
Kinsley (59)
Kiowa (62)
Lakin (59)
Larkinburg (30)
Larned (59)
Lawrence (30)
Leavenworth (31)
Lebo (63)
Lenora (27)*
Liberal (59)
Lyons (62)
McPherson (62)
Manhattan (30)
Mankato (30)
Marion (62)*
Meade (59)
Medicine Lodge (62)
Moundridge (62)
Newton (62)
Norton (30)
Oberlin (27)
Olathe (63)
Ottawa (63)
Oxford (62)
Paola (63)
Parsons (63)
Phillipsburg (30)*
Pittsburg (63)
Plains (59)
Pratt (62)
Russell (59)
St. Francis (27)
Salina (62)
Satanta (59)
Scott City (59)
Sedan (62)
Seneca (30)
Sharon Springs (59)
Smith Center (30)
Stafford (62)
Summerfield (30)
Syracuse (59)
Topeka (30,63)
Towanda (62)
Viola (62)
Wakefield (30)
Wellington (62)
Wellsville (63)
Wichita (62)
Winfield (62)

KENTUCKY

Ashland (71)
Bowling Green (106)
Covington (70)
Danville (70)
Eastwood (70)
Fort Knox (70)
Frankfort (70)
Glendale (70)
Hopkinsville (103)
Lexington (70)
London (107)
Louisville (70)
Madisonville (67)
Mayfield (103)
Maysville (71)
Middlesboro (107)
Owensboro (67)
Paducah (103)
Paris (70)
Russell (71)
Shelbyville (70)
Shepherdsville (70)
Somerset (106)
Sturgis (67)
Sulphur (70)
Union (70)
Warsaw (70)

LOUISIANA

Alexandria (119,122)
Arcadia (99)
Barataria (122)
Bastrop (99)
Baton Rouge (122)
Bogalusa (122) •
Camp Polk (119)
Covington (122)
Crowley (119)
Delhi (102)
De Quincy (119)*
De Ridder (119)
Dixie (99)
Donaldsonville (122)
Eunice (122)
Ferriday (122)
Gilbert (122)
Grand Isle (122)*
Hammond (122)
Hodge (119)
Houma (122)
Jennings (119)
Lafayette (122)
Lake Charles (119)
La Place (122)
Leesville (119)
Madisonville (122)
Mansfield (119)
Many (119)*
Minden (99)
Monroe (102)
Natchitoches (119)
Newellton (122)
New Iberia (122)
New Orleans (122)
New Roads (122)
Oakdale (119)*
Opelousas (122)
Patterson (122)
Pollock (119)
Ruston (102)
St. Joseph (122)
Shreveport (99)
Springhill (99)
Tallulah (102)
Westwego (143)
Winnfield (119)
Winnsboro (122)

MAINE

Andover (18)*
Auburn (18)
Augusta (18)
Bangor (18)(144)
Bar Harbor (18)
Bath (143)
Belfast (18)
Bethel (18)
Biddeford (46)
Boothbay (143)
Bowdoinham (46)
Brewer (18)
Brunswick (46)(143)
Caribou (18)
Deblois (18)
Dexter (18) (143)
Eagle Lake (143)
East Corinth (18)
East Holden (143)
Eastport (18)(143)
Farmington (18)
Freeport (46)
Fryeburg (18)(143)
Greenville (18)(143)
Greenville Jct. (143)
Houlton (18)
Kennebunk (46)
LaGrange (18)
Lewiston (18)
Limestone (18)
Madison (143)
Millinocket (18)
Minot (18)
Naples (143)
Newport (18)
Norridgewock (18)
Norway (18)
Old Town (18)
Phillips (18)
Pittsfield (18)
Pittston (18)
Portage (143)
Portland (46)
Presque Isle (18)
Princeton (18)
Rangeley (18)
Rockland (18)
Sanford (46)
Scarboro (46)
Shinn Pond (143)
Skowhegan (18)
South Portland (46)
Turner (18)
Waterville (18)
West Buxton (46)
Winterport (18)(143)
Winthrop (18)*
Yarmouth (46)

MARYLAND

Aberdeen (75)
Annapolis (75)(143)
Baltimore (75)(143)
Beltsville (78)
Berwyn (78)
Brandywine (75)*
Camp Springs (78)
Churchville (75)
Clinton (78)
College Park (78)
Croom (78)
Cumberland (74)
Doncaster (75)
Easton (75)
Edgewood Arsenal (75)
Fort Meade (78)
Frederick (75)
Glenburnie (75)(143)
Greenbelt (78)
Hagerstown (75)
Hyattsville (78)
Meekins Neck (75)
Ocean City (75)
Patuxent River (75)(143)
Piney Point (75)
Pomonkey (78)*
Priest Point (75)
Riverdale (78)
Rock Hall (75)
Rockville (78)
Salisbury (75)
Shady Side (75)*
Taneytown (75)
Westminster (75)
Worton (75)*

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Adams (43)
Agawam (43)(143)
Auburn (46)
Ayer (46)
Bedford (46)
Beverly (46)(143)
Billerica (46)
Boston (46)
Brant Rock (46)
Brockton (46)
Brookfield (43)
Canton (46)
Chatham (46)(143)
Chicopee Falls (43)
Clinton (46)
Dracut
East Brookfield (43)
Easton (46)
Edgartown (46)
Everett (46)
Fall River (144)
Falmouth (46)
Fitchburg (46)
Franklin (46)
Gardner (43)
Gloucester (144)
Great Barrington (43)
Groton (46)
Haverhill (46)
Holyoke (43)*(144)
Hyannis (46)
Lawrence (46)(143)
Leicester (46)
Lowell (144)
Mansfield (46)
Marlboro (46)
Mendon (46)
Methuen (144)
Montague (43)
Myricks (46)
Nantucket Island (46)
New Bedford (46)(144)
New Braintree (43)
Newburyport (46)
Norfolk (46)
North Adams (43)
Northampton (43)
North Attleboro (46)
North Grafton (46)
Norwood (46)
Oak Bluffs (46)
Orange (43)
Orleans (46)
Palmer (43)
Peabody (46)
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Plymouth (46)
Revere (46)
Rowley (46)*
Salem (143)
Seekonk (46)
South Boston (46)
Southbridge (43)
South Easton (46)
South Weymouth (46)
Spencer (46)
Springfield (43)
Squantum (46)(143)
Swansea (143)
Taunton (46)
Vineyard Haven (46)
Wareham (46)*
West Barnstable (46)
Westboro (46)
Westfield (43)
West Springfield (43)
Williamstown (43)
Worcester (46)

MICHIGAN

Adrian (35)
Algonac (143)
Allegan (35)
Alma (35)
Alpena (15)
Amasa (15)*
Ann Arbor (38)
Armada (38)
Atlanta (15)
AuGres (15)*
Baldwin (15)*
Bangor (35)
Battle Creek (35)
Bay City (38)
Belding (35)
Bellaire (15)*
Benton Harbor (35)
Big Beaver (38)
Big Lake (15)*
Big Rapids (35)
Birmingham (38)
Blaney (15)
Breedsville (35)
Cadillac (15)
Calumet (15)
Caro (38)
Centerville (35)*
Charlevoix (15)
Charlotte (35)
Clare (15)*
Clio (38)
Coldwater (35)
Croswell (38)
Crystal Falls (15)
Davison (38)
Detroit (38)(143)
Douglas (35)
Dowagiac (35)
East Jordan (15)*
Elsie (35)
Escanaba (15)
Farmington (38)
Flint (38)
Fostoria (38)
Frankfort (15)
Fraser (38)
Gaylord (15)
Gladwin (15)
Grand Ledge (35)
Grand Rapids (35)
Grayling (15)
Greenville (35)
Harbor Beach (15)*
Harrison (15)*
Hartford (35)
Hastings (35)
Hillman (15)
Hillsdale (35)
Holland (35)
Houghton (15)
Houghton Heights (15)
Howell (38)
Indian River (15)*
Ionia (35)
Iron Mountain (35)
Ironwood (14)
Ishpeming (15)*
Ithaca (35)
Jackson (35)
Kalamazoo (35)(143)
Kalkaska (15)*
Kinross (15)
Lakeview (35)
Lansing (35)
Lapeer (38)
Lawton (35)
Loretto (15)*
Ludington (15)
Mackinaw City (15)*
Manistee (15)
Manistique (15)*
Marenisco (15)*
Marquette (15)
Marshall (35)
Mason (35)
Menominee (15)
Midland (35)
Milan (38)
Mio (15)*
Mt. Clemens (38)
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Muskegon (35)
Newaygo (35)
Newberry (15)*
Newport (38)
Niles (35)
North Muskegon (143)
Norway (15)
Onaway (15)*
Oscoda (35)
Owosso (35)
Pellston (15)
Petoskey (15)*
Plymouth (38)
Pontiac (38)
Port Huron (38)
Prudenville (15)*
Raco (15)
Rexton (15)*
Rogers City (15)
Romulus (38)
Roscommon (15)*
Roseville (38)
Rothbury (35)
Saginaw (35,38)
St. Helen (15)
St. Ignace (15)
St. James (15)*
Saline (38)
Sault Ste. Marine (15)
Sidnaw (15)*
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Sparta (35)
Sturgis (35)
Tecumseh (38)
Three Rivers (35)
Traverse City (15)
Trenton (148)
Utica (38)
Warren (38)
Watersmeet (15)*
Wayne (38)
West Branch (15)
White Cloud (35)*
Whitmore Lake (38)
Wildwood (15)
Wixom (38)
Wyandotte (38)
Ypsilanti (38)

MINNESOTA

Aitkin (14)
Albert Lea (31)
Alexandria (11)
Amboy (31)
Anoka (14)
Appleton (11)
Austin (31)
Barnesville (11)
Baudette (14)
Bemidji (14)(143)
Benson (11)
Blue Earth (31)
Brainerd (14)
Cokato (14)
Coleraine (14)
Crookston (11)
Detroit Lakes (11)
Dodge Center (14)
Duluth (14)
Ely (14)(143)
Fairmont (31)
Faribault (14)
Fergus Falls (11)
Frontenac (14)
Graceville (11)
Grand Rapids (14)
Hamel (14)
Hastings (14)
Hector (14)
Hibbing (14)
Jordan (14)
Kenyon (14)
Lake City (14)
Le Sueur (14)
Little Falls (14)(143)
Littlefork (14)
Litchfield (14)
Luverne (30)
Madison (11)
Mankato (14)
Marcell (143)
Marshall (11)
Mayer (14)*
Minneapolis (14)
Montevideo (11)
Monticello (14)
Morris (11)
New Brighton (14)
Nisswa (14)
New Elm (14)
Ortonville (11)
Osseo (14)
Park Rapids (11)
Pipestone (30)
Princeton (14)
Redwood Falls (11)
Robbinsdale (14)
Rochester (14,31)
St. Cloud (14)
St. Paul (14)
St. Peter (14)
Sherburn (31)
South St. Paul (14)*
Stanton (14)
Taylor Falls (14)
Thief River Falls (11)
Tofte (14)
Triumph (31)
Virginia (14)
Wadena (11)
Waseca (14)
Westbrook (11)
White Bear Lake (14)
Willmar (11)
Winona (14)
Worthington (30)

MISSISSIPPI

Aberdeen (123)
Batesville (102)
Biloxi (127)(143)
Brookhaven (122)
Canton (102)*
Clarksdale (102)
Cleveland (102)
Columbus (123)
Corinth (103)
Ellisville (127)*
Eupora (123)
Flora (102)
Forest (123)
Glen Allan (102)
Greenville (102)
Greenwood (102)
Grenada (123)
Gulfport (127)
Hattiesburg (127)
Heads (102)*
Houston (123)
Jackson (122)
Laurel (123)
Leland (102)
McComb (122)
McLaurin (127)
Marks (102)
Meridian (123)
Moorhead (102)
Natchez (122)
Nesbitt (102)
Newton (123)*
Oxford (103)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page. Seaplane Bases are not charted.

Pascagoula (127)
Pelahatchee (123)
Picayune (127)
Rockport (122)
Starkville (123)
Tupelo (103)
Tylertown (122)
Vicksburg (102)
Walls (102)
Winona (59)
Yazoo (102)
Yokena (122)
Zeiglerville (102)

MISSOURI

Advance (103)
Bethany (31)
Bolivar (63)
Boonville (66)
Bowling Green (31)
Branson (63)*
Brookfield (31)
Butler (63)
Cameron (31)
Campbell (66)
Cape Girardeau (103)
Carthage (63)
Cassville (63)
Chillicothe (31)
Clinton (63)
Columbia (66)
Craig (30)
Diamond (63)
Ellisville (142)
Excelsior Spgs. (31)
Farmington (66)
Fayette (31)
Fenton (142)
Festus (66)
Fulton (66)
Garden City (63)
Grant City (31)
Gravois Mills (66)*
Hannibal (31)
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Houston (66)
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Kennett (66)*
Kirksville (31)
Kirkwood (142)
Knobnoster (63)
Lebanon (66)
Lexington (31)
Linkville (31)
Luray (31)
McBride (67)
Machens (142)*
Malden (103)
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Marshall (31)
Marysville (31)
Mexico (31)
Moberly (31)
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Nevada (63)
New Florence (66)
Osborn (31)
Poplar Bluffs (66)*
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Unionville (31)
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Versailles (66)
Vichy (66)
Warrensburg (63)
West Plains (66)
Windsor (63)

MONTANA

Alberton (6)
Baker (10)
Belt (6)
Big Timber (7)
Billings (7)
Birney (7)*
Bozeman (6)
Butte (6)
Cascade (6)
Chester (6)
Chinook (7)*
Choteau (6)
Circle (7)
Columbus (7)
Conrad (6)
Custer (7)
Cut Bank (6)
Deer Lodge (6)
Dell (6)
Denton (7)
Dillon (6)
Drummond (6)
Ennis (6)*
Eureka (3)
Flathead (6)*
Forsyth (7)
Fort Benton (6)
Fort Peck (7)
Gates Park (6)*
Geraldine (6)
Geyser (6)
Glasgow (7)
Glendive (10)
Great Falls (6)
Gregson (6)
Hamilton (6)
Hardin (7)*
Harlem (7)
Harlowton (7)
Havre (7)
Helena (6)
Homestake (6)
Hot Springs (6)*
Huson (6)*
Ingomar (7)*
Jordan (7)*
Kalispell (6)
Lavina (7)
Lewistown (7)
Libby (3)
Livingston (6)
McDonald Pass (6)
Malta (7)
Mildred (7)
Miles City (7)
Missoula (6)
Mullan Pass (3)
Nibbe (7)
Park City (7)
Plains (6)
Plentywood (10)
Polesbridge (6)
Polson (6)
Poplar (7)*
Rapelje (7)
Red Lodge (7)*
Roundup (7)*
St. Xavier (7)
Scobey (7)
Seeley Lake (6)*
Shelby (6)
Sheridan (7)
Sidney (10)
Stanford (6)
Stevensville (6)
Superior (6)
Tampico (7)
Thompson Falls (3)
Townsend (6)
Troy (3)*
Twin Bridges (6)
Valier (6)
Vida (7)
West Yellowstone (6)
Whitehall (6)
White Sulphur Spgs. (6)
Whitetail (6)
Winston (6)
Wolf Point (7)

NEBRASKA

Ainsworth (30)
Alliance (27)
Atkinson (30)
Auburn (30)
Bayard (27)
Beatrice (30)
Beaver City (30)
Benkelman (27)
Big Springs (27)
Blair (30)
Brainard (30)
Broken Bow (30)
Bruning (30)
Chadron (30)
Chappell (27)
Clay Center (30)
Columbus (30)
Cozed (30)
Crawford (27)
Crete (30)
David City (30)
Decatur (30)
Elgin (30)
Fairbury (30)
Falls City (30)
Fort Robinson (27)
Fremont (30)
Geneva (30)
Gordon (27)
Grand Island (30)
Harvard (30)
Hastings (30)
Hayes Center (27)
Hay Springs (27)
Hebron (30)
Holdrege (30)
Humboldt (30)
Imperial (27)
Kearney (30)
Lexington (30)
Lincoln (30)
Lorenzo (27)
McCook (27)
Mead (30)
Mitchell (27)
Norfolk (30)
North Platte (27)
Ogallala (27)
Ohiowa (30)
Omaha (30)
Oshkosh (27)
Overton (30)
Pender (30)
Rushville (27)*
Scottsbluff (27)
Scribner (30)
Seneca (27)
Sidney (27)
Tecumseh (30)
Valentine (27)*
Wayne (30)
Weeping Water (30)

NEVADA

Alamo (54)*
Austin (22,51)
Battle Mountain (22)
Boulder City (54)
Buffalo Valley (22)
Caliente (54)
Carlin (22)
Carson City (51)
Crystal (54)
Deeth (22)
Elko (22)
Ely (23)
Fallon (51)
Fernley (51)
Gabbs (51)
Hawthorne (51)
Humboldt (22)
Indian Springs (54)
Las Vegas (54)
Lovelock (22,51)
Manhattan (51)*
Minden (51)
Mormon Mesa (54)
Orovada (22)*
Owyhee (22)
Reno (51)
Scottys (51)
Searchlight (54)*
Smith (51)
Sparks (22,51)
Tonopah (51)
Ventosa (23)
Wadsworth (22)
Wells (23)
Winnemucca (22)
Yerington (51)

NEW HAMPSHIRE

Alton Bay (143)
Berlin (18)
Boscawen (46)
Claremont (43)
Concord (46)
Haverhill (38)
Hampton (46)
Hinsdale (43)
Hooksett (46)(143)
Keene (43)
Lakeport (46)(143)
Lancaster (18)
Laconia (46)
Lebanon (43)
Littleton (18)
Manchester (46)
Nashua (46)
Newport (43)
North Conway (18)
Plymouth (46)
Portsmouth (46)
Sommersworth (46)
The Weirs (143)
Twin Mountain (18)
Whitefield (18)
Wolfeboro (46) (91)(143)

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Adamston (79)*
Almonesson (78)
Andover (79)
Asbury Park (79)
Ashland (78)
Atlantic City (79)
Auburn (75)
Barrington (78)
Basking Ridge (79)
Belmar (79)
Belvidere (42)
Bendix (79)
Blairstown (43,79)
Boonton (79)
Bridgeport (78)
Bridgeton (75)
Burlington (78)
Caldwell (79)
Camden (78)
Cape May (79)(144)
Cassville (79)
Chatsworth (79)*
Clarksville (79)
Clinton (79)
Elizabeth (79)
Forked River (79)
Freehold (79)
Glassboro (78)
Greenwich (75)
Hackettstown (79)
Hightstown (79)
Keyport (79)*
Lakehurst (79)
Landisville (79)
Lebanon (79)
Lincoln Park (79)
Little Ferry (144)
Medford (78)
Metuchen (79)
Millville (75)
Moorestown (78)
Morristown (79)
Newark (79)
New Brunswick (79)
North Brunswick (79)
Ocean City (79)*
Paterson (79)
Pennington (79)
Penns Grove (75)
Perth Amboy (144)
Pitman (78)
Pittstown (75)
Princeton (79)
Rahway (79)
Readington (79)
Red Bank (79)
Richland (79)
Ridgefield Park (144)
Salem (75)
Secaucus (144)
Sussex (43)
Trenton (78)
Vineland (75)
Wildwood (79)
Woodbine (79)
Woodbridge (79)
Wrightstown (79)

NEW MEXICO

Acomita (55)
Alamogordo (90)
Albuquerque (58)
Anton Chico (58)
Artesia (90)
Aztec (55)*
Belen (58)
Berino (87)
Carlsbad (90)
Carrizozo (90)
Clayton (58)
Clovis (58)
Columbus (87)
Cubero (55)*
Cuervo (58)
Deming (87)
Dora (90)
Eagle Nest (58)*
El Morro (55)
Engle (87)
Farmington (55)
Fort Sumner (58)
Gallup (55)
Hachita (87)
Harrington Ranch (87)
Hobbs (91)
Hot Springs (87)
Hurley (87)
Jal (91)
Juan Tomas (58)
Las Cruces (87)
Las Vegas (58)
Lordsburg (86)
Lovington (90)
Magdalena (58)
Maxwell (58)*
Mesilla Park (87)
Milnesand (90)
Mountainair (58)
Mount Riley (87)
Otto (58)
Peralta (58)
Portales (58)
Raton (58)
Rodeo (86)
Roswell (90)
Roy (58)*
Ruidoso (90)*
Santa Fe (58)
Shiprock (55)*
Silver City (87)
Strauss (87)
Taos (58)
Tucumcari (58)
Tularosa (87)*
Wagon Mound (58)

NEW YORK

Accord (43)*
Albany (43)
Alplaus (144)
Amityville (79)
Angola (39)
Amsterdam (43)
Arcade (39)
Armonk (43)
Auburn (42)
Auriesville (43)
Babylon (144)
Ballston Spa (43)
Batavia (39)
Bayport (79)*
Bedford (43)*
Beekman (43)
Bethpage (79)
Billings (43)
Binghamton (42)
Blasdell (39)
Boonville (42)
Brentwood (79)*
Buffalo (39)(144)
Cairo (43)
Canastota (42)
Carlisle (43)
Carthage (42)
Catskill (43)
Athens (144)
Cheektowaga (39)
Cicero (42)
Clarence (39)
Clason's Point (79)
Colonie (43)
Cooperstown (43)(144)
Cortland (42)
Dansville (42)
Deer Park (79)*
Delanson (43)
Depew (39)
Dobbs Ferry (144)
Dunkirk (39)
Eagle Bay (144)
East Amherst (39)
East Greenbush (43)
East Hampton (79)
East Pembroke (39)
Edgemere (79)
Elmira (42)
Endicott (42)
Falconer (39)
Farmingdale (79)
Fisher's Island (43)
Flatbush (79)
Flushing (79)
Fort Plain (43)
Fredonia (39)
Fulton (42)
Gardenville (39)
Geneva (42)
Getzville (39)
Glens Falls (43)
Gloversville (43)
Gowanda (39)
Great Bend (18)
Greenridge (79)
Halcott Center (43)
Hamburg (39)
Hamilton (42)
Hammondsport (42)
Hancock (42)*
Hempstead (79)
Herkimer (43)
Hicksville (79)
Hilton (42)
Honeoye Falls (42)
Hornell (42)
Horseheads (42)
Idlewild (79)
Islip (79)
Ithaca (42)
Jamestown (39)
Johnstown (43)
Keene (18)*
Keeseville (18)
Kingston (43)
Kirkville (42)
Lake George (143)
Lake Placid (18)
Lancaster (39)
Lockport (39)
Malone (18)
Margaretville (43)
Massapequa (79)
Massena (18)
Mastic (79)
Mattituck (79)
Medina (39)
Medway (43)
Mexico (42)
Middleburg (43)
Middletown (43)
Mineola (79)
Minoa (42)
Montauk (144)
Montgomery (43)
Monticello (43)
Montour Falls (42)
Moravia (42)
Narrowsburg (42)
Newark (42)
New Baltimore (43)
Newburgh (43)
New City (43)
New Hackensack (43)
New Springville (79)
New York (79)(144)
Niagara Falls (39)
North Long Beach (144)
North Tonawanda (39)
Northville (43)
Norwich (42)
Nyack (43)
Ogdensburg (18)
Olcott (39)
Olean (39)
Oneonta (42)
Ossining (144)
Owasco (42)*
Oyster Bay (144)
Painted Post (42)
Palmyra (42)
Penn Yan (42)
Perry (39)
Piseco (43)(144)
Pittsford (42)
Plattsburg (18)
Port Chester (79)
Port Jervis (43)
Port Washington (144)
Potsdam (18)
Pulaski (42)
Ravena (43)
Red Creek (42)
Rexford (43)
Rhinebeck (43)
Richland (42)
Richmondville (42)
Ripley (39)
Rochester (42)(144)
Rockaway Park (79)
Rome (42)
Round Lake (144)
Sag Harbor (144)
Salamanca (39)
Saranac Lake (18)
Saratoga Springs (43)
Sayville (79)*
Schenectady (39,43)
Schuylerville (43)
Scottsville (42)
Selkirk (43)*
Seneca Falls (42)
Sidney (42)
Silver Creek (39)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page. Seaplane Bases are not charted.

Silver Springs (39)
Somers (43)
Springville (39)
Stephentown (43)
Stormville (43)
Syracuse (42)
Ticonderoga (43)
Tonawanda (39)
Travis (78)•
Troy (43)
Tupper Lake (18)
Utica (42)
Valley Stream (79)
Walden (43)
Wallkill (43)
Wappingers Falls (43)
Warwick (43)
Watertown (42)
Wellsville (18)•
Westfield (39)•
Westhampton Beach (79)
Westport (18)
White Plains (43)
White Stone (144)
Whitesville (42)
Williamsville (39)
Wingdale (43)
Wolcottsville (39)
Wurtsboro (43)
Yonkers (144)

NORTH CAROLINA

Aberdeen (110)
Albermarle (110)
Asheboro (110)
Asheville (107)
Atlantic (111)
Aydlette (111)
Barco (111)
Beaufort (111)
Belmont (110)
Black Mountain (107)
Bogue (111)
Burgaw (111)
Burlington (110)
Candor (110)•
Carolina Beach (111)
Chapel Hill (110)
Charlotte (110)
Cherry Point (111)
Clinton (111)
Concord (110)
Derita (110)
Draper (110)
Durham (110)
Eagle Springs (110)
Edenton (111)
Elizabeth City (111)(144)
Elkin (110)
Erwin (111)
Fayetteville (110)
Fort Bragg (110)
Franklin (107)
Gastonia (110)
Gibsonville (110)
Goldsboro (111)
Greensboro (110)
Greenville (111)
Henderson (111)
Hendersonville (107)
Hickory (110)
High Point (110)
Hoffman (110)
Jacksonville (111)•
Jonesville (110)
Kannapolis (110)
Kings Mountain (110)
Kinston (111)
Lillington (110)
Lincolnton (110)
Louisburg (111)
Lumberton (110)
Manteo (111)
Marion (107)
Marion (110)
Mayodan (110)
Mocksville (110)
Monroe (110)
Morganton (107)
Mt. Airy (110)
Mt. Olive (111)
New Bern (111)
New River (111)
North Wilkesboro (110)
Oxford (110)
Pinehurst (110)
Pollocksville (111)
Raleigh (110)
Red Springs (110)
Reidsville (110)
Roanoke (110)
Rockingham (110)
Rocky Mount (111)
Roxboro (110)
Salisbury (110)
Sanford (110)
Selma (111)
Shelby (107)
Southern Pines (110)
South Mills (111)
Spindale (107)
Statesville (110)
Sylva (107)
Tarboro (111)
Wadesboro (110)
Wallace (111)
Warrenton (111)
Washington (111)
Weeksville (111)
West Jefferson (107)
Whiteville (110)
Wilmington (111)
Wilson (111)
Winston-Salem (110)
Yanceyville (110)
Zebulon (111)

NORTH DAKOTA

Abercrombie (11)
Ashley (11)
Beach (10) (38)
Bismarck (10)
Bowman (10)
Cando (11)
Carrington (11)
Crosby (10)
Dawson (11)
Devils Lake (11)
Dickinson (10)
Driscoll (10)
Dunseith (10)•
Fargo (11)
Fessenden (11)
Glen Ullin (10)
Golva (10)
Grand Forks (11)
Harvey (11)
Jamestown (11)
Judson (10)
Killdeer (10)
Langdon (11)
Lisbon (11)
Minot (10)
Mohall (10)
Mott (10)
New England (10)
New Rockford (11)
Parshall (10)
Pembina (11)
Rhame (10)
Rolla (11)
Rugby (10)
Towner (10)
Valley City (11)
Wahpeton (11)
Washburn (10)
Watford (10)
West Fargo (11)
Wheatland (11)
Williston (10)
Wyndmere (11)

OHIO

Akron (38)
Alliance (38)
Amanda (71)•
Archbold (35)
Ashland (38)
Ashtabula (39)
Athens (71)
Avon Lake (38)
Barberton (38)
Bedford (139)
Bowling Green (38)
Brecksville (38)
Brookfield (39)
Bucyrus (38)
Cambridge (71)
Canton (38)
Chagrin Falls (139)
Chardon (139)
Cherry Fork (71)
Chesapeake (71)
Chillicothe (71)
Cincinnati (70)
Cleveland (139)(144)
Coldwater (70)
Columbus (71)
Conneaut (39)
Crooksville (71)
Dayton (70)
Defiance (35)
E. Liverpool (39)
Elyria (139)
Fairfield (70)
Findlay (38)
Fremont (38)
Fostoria (38)
Galion (38)
Gallipolis (71)•
Greenford (39)
Greenville (70)
Grove City (71)
Hamilton (70)
Harrison (70)•
Hayesville (38)
Hicksville (35)
Hilliard (71)
Homerville (38)
Hudson (139)
Jackson (71)
Johnsville (70)
Kellys Island (38)•
Kent (38)
Kenton (71)
Lancaster (71)
Lebanon (70)•
LeRoy (38)
Lewisburg (70)
Lima (38)
Lorain (139)
Loveland (70)
Magnolia (71)
Mansfield (38)
Marietta (71)
Marion (71)
Mason (70)
Massillon (38)
Medina (38)
Middletown (70)
Minford (71)
Montezuma (70)
Morrow (70)
Mt. Liberty (71)
Mt. Orab (71)
Mt. Vernon (71)
Nevada (75)
Newark (71)
New Holland (71)
New Paris (70)
New Philadelphia (71)
North Benton (38)
Northfield (139)
North Royalton (38)
Norwalk (38)
Oxford (70)
Paulding (38)
Perry (38)
Piqua (70)
Port Clinton (38)
Portsmouth (71)
Put-In-Bay (38)
Rushsylvania (71)•
Sandusky (38)
Sharonville (70)
Sidney (70)
Solon (139)
Springfield (71)
Summit Station (71)
Tiffin (38)
Tiltonsville (74)•
Toledo (38)
Toronto (74)
Troy (70)
Urbana (71)
Vandalia (70)•
Van Wert (35)
Vermilion (139)
Verona (70)
Warren (39)
Washington (71)
Watertown (71)
Wauseon (35)
Wellington (38)
Willard (38)
Williamsfield (39)
Willoughby (139)
Wilmington (71)
Woodsfield (71)•
Wooster (38)
Youngstown (39)
Zaleski (71)•
Zanesville (71)
Wapakoneta (35)

OKLAHOMA

Ada (98)
Afton (42)
Altus (94)
Anadarko (98)
Antlers (95)
Alva (62)
Ardmore (95)
Atoka (95)
Bartlesville (62)
Blackwell (62)
Boise City (59)
Buffalo (59)
Calumet (98)
Carnegie (94)
Cherokee (62)
Cheyenne (94)
Chickasha (98)
Claremore (63)
Clinton (94)
Cordell (94)
Cushing (92)
Delhi (94)
Dill (94)
Duncan (98)
Durant (95)
Edmond (62)
Elk City (94)
El Reno (98)
Enid (62)
Erick (94)
Fort Cobb (98)
Frederick (94)
Gage (59)
Geary (98)
Grandfield (94)
Guthrie (62)
Guymon (59)
Heavener (99)•
Hobart (94)
Holdenville (95)
Hollis (94)
Hugo (99)
Idabel (99)
Jefferson (62)
Jet (62)
Kingfisher (62)
Lamont (62)
Langston (62)
Lawton (94,95)
Lexington (98)
McAlester (96)
Mangum (94)
Marietta (95)
Marlow (95)
Miami (63)
Moore (96)
Moseley (63)
Muskogee (99)
Nashoba (99)•
Newalla (95)
Newkirk (62)
Norman (98)
Nowata (63)
Oklahoma City (63,98)
Okmulgee (95)
Pauls Valley (95)
Pawhuska (62)
Perry (62)
Picher (63)
Ponca City (62)
Poteau (99)•
Pryor (63)
Red Fork (62)
Roosevelt (94)
Sapula (62)
Sayre (94)
Seminole (95)
Sentinel (94)
Shawnee (95)
Skiatook (62)
South Coffeyville (63)
Stillwater (62)
Stilwell (63)
Stroud (62))
Tahlequah (63)
Thomas (62)
Tishomingo (95)•
Tonkawa (62)
Tulsa (62,63)
Verdigris River (63)
Vinita (63)
Walters (96)
Washington (95)
Watonga (62)
Weatherford (94)
Wetumka (95)
Wewoka (98)
Woodward (59)
Yukon (98)

OREGON

Albany (3)
Alkali (22)
Arlington (3)
Astoria (2)
Aurora (142)
Baker (3)
Bay Ocean (2)
Beaver Marsh (19)
Beaverton (142)
Bend (2)
Boardman (3)
Brooks (2)
Burns (22)
Cabbage Hill (3)
Canby (142)
Cave Junction (19)•
Corvallis (2)
Cow Creek (19)
Dallas (2)•
Denmark (19)
Elgin (3)•
Eugene (2)
Grants Pass (19)
Gresham (142)
Harrisburg (2)
Hermiston (3)
Hillsboro (142)
Hood River (2)
Idanha (2)•
John Day (3)
Joseph (3)
Klamath Falls (19)
La Grande (3)
Lakeside (19)
Lakeview (19)
Lebanon (2)
Lexington (3)•
McMinnville (2)
McNary (2)
Madras (2)
Medford (19)
Milton (3)
Milwaukie (144)
Monmouth (2)
Mulino (142)
Myrtle (19)
Newberg (142)•
Newport (2)
North Bend (19)
Ocean Lake (144)
Ontario (3)
Oregon City (142)
Pendleton (3)
Pilot Rock (3)
Portland (142)(144)
Prineville (2)
Redmond (2)
Riddle (19)
Rome (22)
Roseburg (19)
Scappoose (142)
Sheridan (2)
Silverton (2)•
Sutherlin (19)
Sweet Home (2)
The Dalles (2)
Tillamook (2)
Trail (19)
Troutdale (142)
Vernonia (2)
Wasco (2)
Williamette (2)
Woodburn (142)
Worden (19)

PENNSYLVANIA

Allentown (43,74,75)
Altoona (74)
Ambler (75)
Andreas (42)
Aspinwall (144)
Athens (42)
Beaver (144)
Beaver Falls (39)
Bellefonte (42)
Bloomsburg (42)
Boothwyn (75)
Bradford (39)
Bristol (78)
Brockway (39)
Brooksville (39)
Buckstown (74)
Butler (39)
Canadensis (42)
Campbelltown (75)
Carlisle (75)
Cecil (74)
Chambersburg (75)
Chester (78)
Clarion (39)
Clearfield (39)
Coatesville (75)
Collegeville (78)
Conneaut Lake (39)
Connellsville (74)
Conway (39)
Coraopolis (144)
Corbett (42)
Corry (39)
Cresson (78)
Daleville (42)
Danville (42)
Douglasville (75)
Doylestown (78)
Dubois (39)
Duncansville (74)
Easton (42)
Ebensburg (74)
Edinboro (144)
Elysburg (42)
Erie (39)
Fogelsville (75)
Gettysburg (75)
Gordon (42)
Granville (75)
Greensburg (74)
Greenville (39)
Grove City (39)
Hanover (75)
Harrisburg (75)(144)
Harrison (74)
Hazleton (42)
Hershey (75)
Holmesburg (78)
Hookstown (74)
Hughesville (42)
Huntingdon (74)
Indiana (74)
Johnstown (74)
Johnsville (78)
Kearsarge (39)
Kittanning (144)
Kutztown (75)
Kylertown (39)
Lake Carey (42)
Lancaster (75)
Langhorne (78)
Lansdale (78)
Latrobe (74)
Leechburg (74)
Lehighton (42)
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Linesville (39)
Lock Haven (42)
McKeesport (144)
Marchand (39)
Mars (39)
Matamoras (43)
Meadville (39)
Mercer (39)
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Milton (42)(144)
Mohrsville (75)
Montgomeryville (78)
Morrisville (78)
Mt. Jewett (39)
Mt. Pleasant (74)
Mt. Pocono (42)
Mt. Union (75)
Myerstown (75)
New Alexandria (74)
New Hanover (75)
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Paoli (78)
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Pottsville (75)
Punxsutawney (39)
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Ridgeway (39)
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Selinsgrove (42)
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Slatington (42)
Somerset (74)
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Stroudsburg (42)
Summerhill (74)
Sunbury (42)
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Tunkhannock (42)
Utahville (39)
Vandergrift (74)
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Woonsocket (46)

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Camden (110)
Charleston (131)
Cheraw (110)
Chesnee (107)•
Chester (110)
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Darlington (110)
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Belle Fourche (10)•
Brookings (11)
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Custer (27)
Edgemont (27)
Elk Point (30)•
Eureka (11)•
Faulkton (11)
Flandreau (11)
Gregory (30)
Hot Springs (27)
Huron (11)
Lemmon (10)
Madison (11)
Martin (27)
Miller (11)
Mitchell (30)
Mobridge (10)
Newell (10)
Philip (10)
Pierre (10)
Platte (30)
Rapid City (10)
Redfield (11)•
Reliance (30)
Sioux Falls (30)
Spearfish (10)
Stevens City (30)
Vermillion (30)
Wagner (30)
Watertown (11)
Willow Lake (11)
Winner (30)
Yankton (30)

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page Seaplane Bases are not charted.

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Chattanooga (106)
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Wellington (94)
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Wink (91)
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Brigham (23)
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Duchesne (23)*
Enterprise (54)
Ephraim (23)*
Fairfield (23)
Fillmore (54)
Goulding (56)
Grantsville (23)
Hanksville (56)
Huntsville (23)
Knolls (23)
Layton (23)
Logan (23)
Low (23)
Lucin (23)
Midvale (23)
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Myton (23)*
Nephi (23)
Ogden (23)
Price (23)
Promontory Point (23)
Provo (23)
Richfield (54)
Riverton (23)
Roosevelt (26)
St. George (54)
Salt Lake City (23)
Spanish Fork (23)
Timpie (23)
Toole (23)
Vernal (26)
Wendover (23)

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Bennington (43)
Berlin (18)
Bristol (18)
Burlington (18)
Fair Haven (43)
Grande Isle (18)
Huntington (18)
Manchester (43)
Newport (18)
Rutland (43)
St. Johnsbury (18)
Springfield (43)
Swanton (18)
Vergennes (18)
White River Jct. (43)

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Alberta (111)
Alexandria (78)
Altavista (110)
Annandale (78)
Bedford (110)
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Blacksburg (110)
Blackstone (111)
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Chester (78)
Chilhowie (107)
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Clarksville (111)*
Clover (110)
Covington (74)
Creeds (111)
Dahlgren (78)(144)
Danville (110)
Dawn (78)
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Eclipse (111)
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Falls Church (78)
Farmville (111)
Fentress (139)
Franklin (139)
Fredericksburg (78)
Front Royal (74)
Galax (110)
Gordonsville (74)
Greys Point (78)*
Hampton (139)
Harcum (78)*
Harrisonburg (74)
Herndon (78)
Hopewell (111)
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Lawrenceville (111)
Leesburg (78)
Lexington (74)
Lively (78)
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Montvale (74)
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Clarkston (2)
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Colville (3)
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Davenport (3)
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Ellensburg (2)
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Ephrata (3)
Everett (2)
Forks (2)*
Goldendale (2)*
Harrington (3)
Hobart (2)
Ilwaco (3)
Issaquah (142)
Kelso (2)
Kennewick (3)
Kent (142)
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La Crosse (3)
Lakeview (2)
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Monroe (2)
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Newport (3)
North Bend (2)
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Olympia (2)
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Opportunity (3)
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Oroville (3)(144)
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Tonasket (3)
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Paynesville (71)
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Princeton (71)
Ravenswood (71)
Romney (74)
Ronceverte (74)
Spencer (71)
Sutton (74)
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Williamson (71)
Winfield (71)

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Antigo (15)
Appleton (15)
Arbor-Vitae (15)*
Ashland (14)
Baraboo (34)
Beaver Dam (34)
Black River Falls (14)
Bloomer (14)
Boulder Junction (15)
Boyceville (14)
Brodhead (34)
Camp Douglas (31)
Camp McCoy (31)
Cedarburg (34)
Chetek (14)
Chippewa Falls (14)
Clintonville (15)
Colby (14)
Dallas (14)
Darlington (31)
Durand (14)
Eagle River (15)*
Eau Claire (14)
Elkhorn (34)
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Fond du Lac (34,15)
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Shullsburg (31)
Shawano (15)
Sparta (31)
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Sturgeon Bay (15)
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Washington Island (15)*
Watertown (34)
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Afton (23)
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Basin (7)
Big Piney (23)*
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Cheyenne (27)
Cody (7)
Cokeville (23)
Cowley (7)
Douglas (26)
Dull Center (27)
Egbert (27)
Evanston (23)
Fort Bridger (23)
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Greybull (7)
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Riverton (26)
Rock Springs (26)
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Torrington (27)
Ucross (7)
Wamsutter (26)
Wheatland (27)
Worland (31)*

N.B. Parenthetical numbers refer to the charts on which these locales are inscribed. An asterisk indicates the facility is listed on the data page but is not charted. See reverse side of chart for data page. Seaplane Bases are not charted.

DIGEST OF AIR TRAFFIC CONTROL PROCEDURES

This digest is prepared especially for the use of pilots operating within control areas, airport approach zones and airport traffic zones. For detailed information, see Civil Aeronautics Administration Manual 60, AAF Regulation 60-16, and pertinent Navy Publications.

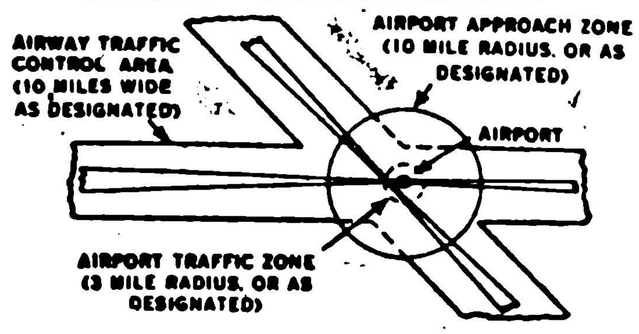
CONTACT FLIGHT RULES WEATHER MINIMUMS

	Inside Airport Traffic Zone (3-mile radius)	Inside Control Area (but outside of Airport Traffic Zones)	Elsewhere
Flights at altitudes of more than 700 feet above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	500 ft. vertically, 2000 ft. horizontally from all clouds-3 miles visibility (or 1 mi. with traffic clearance)	500 feet vertically, 2000 feet horizontally from all clouds - 1 mile visibility
Flights at altitudes of 700 feet or less above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	Clear of clouds * * 1 mile visibility	Clear of clouds * * 1 mile visibility

*If traffic conditions permit, a control tower or control center will issue a traffic clearance when the minimums are less than those specified, but under this provision the flight must remain clear of clouds.

**In airport approach zones flights must remain 500 feet vertically and 2000 feet horizontally from all clouds unless a center or tower issues a traffic clearance for flight "clear of clouds".

CONTROLLED AREAS



FLIGHT PROCEDURES AND CONDITIONS

The types of flight plans and conditions under which aircraft may be operated are summarized as follows:

Contact Flight Rule (CFR)-Aircraft must be flown in weather conditions equal to or better than those outlined in the weather minima chart without benefit of reductions authorized by a traffic clearance. No flight plan or communication contacts are necessary other than as required by an airport traffic control tower for regulation of local airport traffic.

Contact Flight Rule-Controlled-Aircraft may be operated in weather conditions lower than the basic weather minima within control areas, airport approach zones, and airport traffic zones, providing the pilot files flight plan specifying the route to be flown with an airway traffic control center or airport traffic control tower, he receives a traffic clearance and he complies with all conditions stipulated in the clearance. Communication contacts and position reports may be required by Air Traffic Control for this type of flight, as traffic control separation will be afforded aircraft on the same basis as aircraft operating on an IFR flight plan.

Instrument Flight Rule (IFR)-Pilots proposing to operate aircraft in accordance with instrument flight rules are required to: file a complete flight plan with an airway traffic control center or airport traffic control tower and obtain a traffic clearance from the center or tower prior to flight; maintain continuous listening watch on the appropriate radio frequency, and report by radio the time and altitude of passing each designated reporting point. When an aircraft on an IFR flight plan is operating in weather conditions lower than the basic CFR minima a minimum altitude of 1000 feet above the surface must be maintained. A traffic clearance specifying that a portion of a flight is to be conducted in accordance with contact flight rules (CFR) will require that the pilot maintain, without reduction, the basic contact flight rule minima as specified in CAR 60 and assume the responsibility of avoiding other acft during the portion of the flight specified. In the event of two-way radio failure, a pilot may (1) proceed according to current flight plan, maintaining the minimum safe alt. or the last acknowledged assigned altitude, whichever is higher, to the range station from which approach will be started to the airport of intended landing, and commence descent at approach time last authorized; or if such time has not been received and acknowledged commence descent at the time of arrival specified in the flight plan. Under such conditions a full-standard instrument approach should be executed unless a CFR approach is made; or (2) if weather conditions permit, proceed in accordance with CFR; or (3) land as soon as practicable. Normally, if the aircraft is operating flight rule weather conditions at the time the radio failure is discovered, the pilot should proceed in accordance with contact flight rules to the airport of first intended landing or to the nearest suitable airport. If this is not possible, the pilot will proceed according to current flight plan. In order that uniform flight levels will be maintained by all aircraft, the altimeter should always be set to the altimeter setting of the nearest reporting station as the flight proceeds. The altimeter setting is issued by the Weather Bureau and, when placed on the barometric scale of the altimeter, will result in a reading of the elevation above sea level on the height scale of the instrument.

Note: A flight plan is required on all AAF flights except for local flights within a defined local flying area.

Arrival Reports - It should be noted that whenever a flight plan has been filed whether for CFR or IFR operations, an arrival report is required, unless the pilot has stated in the flight plan that such report will not be filed.

XI

Maintenance of Flight Altitudes-Within control areas, aircraft should be flown at even or odd thousand-foot levels above sea level depending upon the direction of flight as indicated by odd or even minimum altitudes shown on Flight Planning Charts, unless other altitudes are assigned and approved by an airway traffic control center.

Cruising altitudes outside of control areas or approach zones shall correspond to the direction of flight as indicated below:

MAGNETIC HEADING	Indicated Altitude (feet above sea level)
0° - 89° inclusive,	odd thousands: 1,000 feet; 3,000 feet; etc.
90° - 179° inclusive,	odd thousands plus 500 feet: 1,500 feet; 3,500 feet; etc.
180° - 269° inclusive,	even thousands: 2,000 feet; 4,000 feet; etc.
270° - 359° inclusive,	even thousands plus 500 feet: 2,500 feet; 4,500 feet; etc.

AIRPORT TRAFFIC CONTROL PROCEDURES

Aircraft with Two-Way Radio: If operating under contact flight rules, arriving aircraft should establish communication with the control tower when approximately 15 miles from the airport of destination. The tower will issue such instructions as are necessary. Pilots should remain tuned to the tower until the landing is completed and the aircraft parked. If on an instrument flight plan, arriving aircraft should remain on range frequency as long as required for navigational purposes. The control tower should not be contacted until after a clearance "to the tower" has been received and the aircraft is 15 miles or less from the airport and clear of clouds, unless otherwise instructed. The clearance, "Cleared to Blank Tower", is also approval for approach subject to any restrictions or instructions contained in the clearance. This clearance, without any restrictions, is approval to make approach for a landing using whatever type of approach desired by the pilot.

Aircraft with Receiver Only: Remain tuned to the tower at all times when within the airport traffic zone. Acknowledge signals in the daytime by movement of ailerons or rudder on the ground and by rocking wings in the air, & at night by flashing landing light. Clearance from the tower should be received for taxiing, landing and taking-off; however, sufficient movement of the aircraft to attract the attention of the tower is permitted. If tower does not issue radio instructions, watch for light signals as the tower may not realize that the aircraft is equipped with a receiver.

Aircraft without Radio Equipment: Observe the tower for light signals, and acknowledge as above. The light signals are:

VISUAL SIGNALS FROM PORTABLE TRAFFIC SIGNAL LIGHT

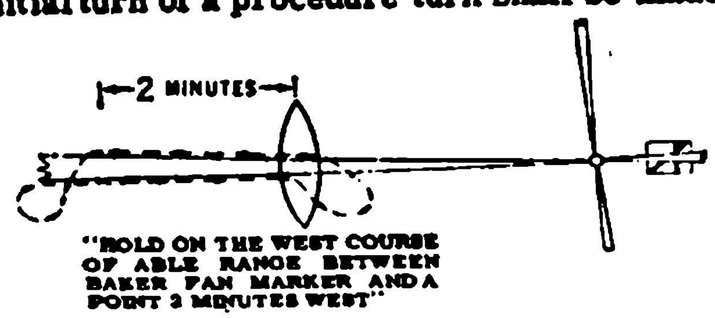
Color and Type of Signal	Taxi-ing	Ready for Take-off	In Flight
STEADY GREEN	XXXXXXXXXXXX	Cleared for Take-off	Cleared to Land
FLASHING GREEN	Continue Taxi-ing	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
STEADY RED	Stop	Clear the Runway Immediately, and Wait	Give Way to Other Aircraft and Continue Circling
FLASHING RED	Return to Hangar Line	Return to Hangar Line	Return and Land
ALTERNATING RED AND GREEN	General Warning Signal - Exercise Extreme Caution		

Traffic and Taxi Patterns have been established at busy airports to illustrate the desired flow of aircraft on the ground and in the air under specified wind conditions. If the traffic pattern is now known, follow other aircraft unless otherwise instructed.

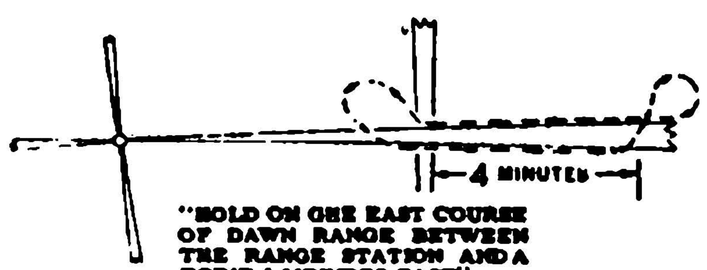
If a pilot does not receive either radio or visual signal from the tower when approaching for a landing, he should make at least one complete circle of the airport conforming to the traffic pattern, and then start approach for a landing. The pilot should be on the alert for a signal from the tower and maintain a watch for other aircraft.

HOLDING PROCEDURES FOLLOWED BY AIRCRAFT AT RADIO FIXES

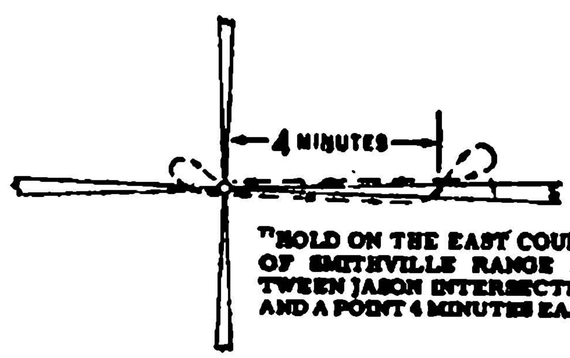
The standard holding flight path of an aircraft operating on an instrument flight rule flight plan and being held at a radio fix is to follow the right edge of the on-course signal of the specified leg of the appropriate radio range. The aircraft shall hold between the designated holding point and a point 4 minutes' flying time therefrom in the direction specified starting procedure turns at the holding point and a point 4 minutes therefrom. Unless prevented by obstructions or unless otherwise advised by an Airway Traffic Control Center or Civil Aeronautics Administration Airport Traffic Control Tower, the initial turn of a procedure turn shall be made to the left when flying away from the range station and to the right when flying toward the range station. The point to be used as the designated holding point will be identified in the traffic clearance which contains instructions for the aircraft to hold. When holding at an approach control marker, the holding flight path will extend from the specified holding point to a point not to exceed 2 minutes' flying time therefrom in the direction specified. When instructions are received giving the time of departure from the holding point, the pilot may adjust his flight path so as to be able to depart from the marker at the exact time specified.



"HOLD ON THE WEST COURSE OF ABLE RANGE BETWEEN BAKER FAN MARKER AND A POINT 2 MINUTES WEST"



"HOLD ON THE EAST COURSE OF DAWN RANGE BETWEEN THE RANGE STATION AND A POINT 4 MINUTES EAST"



"HOLD ON THE EAST COURSE OF SMITHVILLE RANGE BETWEEN JASON INTERSECTION AND A POINT 4 MINUTES EAST"

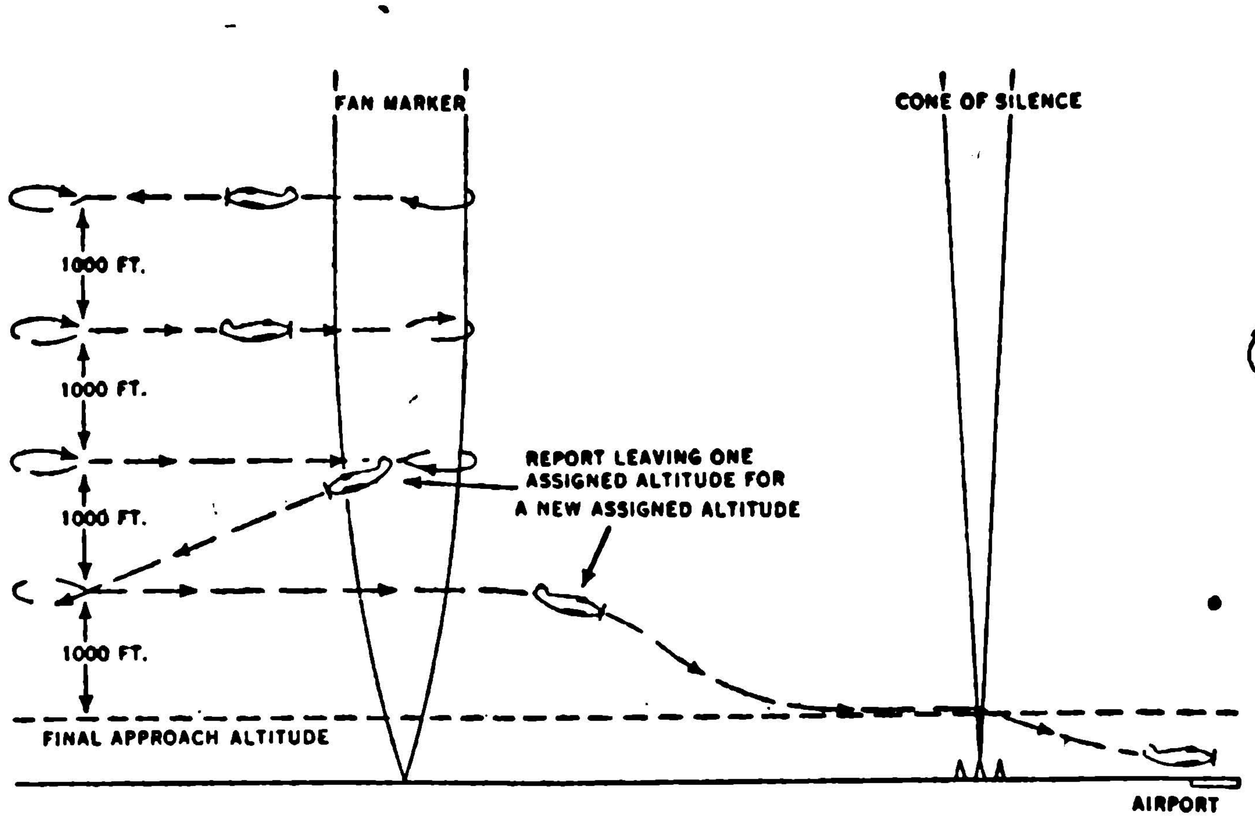
HANDLING OF CFR FLIGHT PLANS, AND ARRIVAL REPORTS

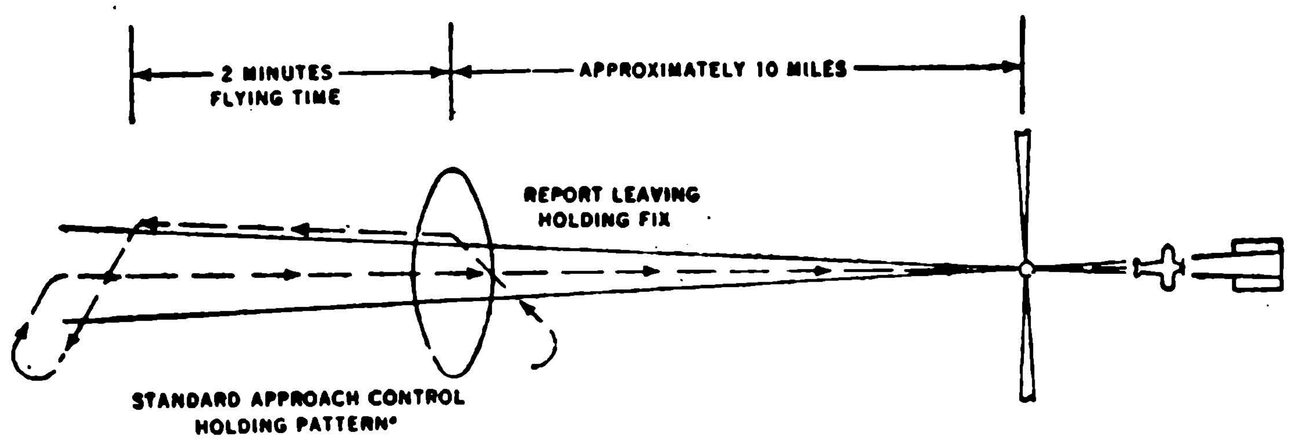
CFR flight plans may be filed with any CAA airways communication station or airway traffic control center. These flight plans are not transmitted to the point of destination but are held in suspense until notice of arrival is received. One hour after the estimated time of arrival, if no notice of arrival is received, queries are sent out over CAA communication systems to determine the location of the aircraft. If the arrival report is not received within three hours, search and rescue operations are initiated. Inasmuch as the Government may be put to considerable expense in determining the location of aircraft when an arrival report is not filed, it is vitally necessary that all pilots using this service make certain that notice of arrival is filed with the CAA communications station at the termination of the flight. Arrival reports are transmitted over CAA circuits to the station holding the flight plan.

In order to reduce radio congestion, pilots should file CFR flight plans, when required, in person or by telephoning the airways communication station or airway traffic control center. CAA control towers have discontinued accepting CFR flight plans for transmission and will not normally file arrival reports except upon the specific request of the pilot. Whenever practicable, however, it is desired that arrival reports be filed in the same manner as flight plans.

APPROACH CONTROL PROCEDURES

Approach control is a service whereby Civil Aeronautics Administration airport traffic control towers issue control instructions in instrument weather conditions, by communicating directly with pilots over the voice feature of a radio range, or over a very-high frequency channel of the control tower. Ordinarily, aircraft will be cleared by the airway traffic control center to the holding fix, (fan marker or other radio fix) with appropriate holding instructions. Instructions to hold "UNTIL FURTHER ADVISED BY (Name of) APPROACH CONTROL ON (Blank) KILOCYCLES" are included by the airway traffic control center so that the pilot will know on which frequency he will receive further instructions from the tower. When he arrives over the holding point, the pilot initiates a call to "(Name of) APPROACH CONTROL" and advises time and altitude over the holding point, listening on the frequency specified in the ATC clearance for further instructions. Radio contacts required thereafter; (a) when vacating any previously assigned flight level for a newly assigned level; (b) when leaving holding point. Each pilot in an approach sequence will be given advance notice as to the time he should leave the holding marker on approach to the airport. When the time of leaving the holding point has been received, the pilot should shorten the standard holding path remaining in the immediate vicinity of the marker so as to leave the marker as closely as possible to the designated time. Pilots should maintain communication by listening to approach control frequency until cleared to the tower's local control frequency (278 kc. or equivalent). Departing aircraft will receive initial instructions on the tower's local control frequency. Approach Control is established at locations indicated as AC in the station class column on the data pages.





*NOTE: STANDARD 2 MINUTE HOLDING PATTERN FOLLOWED BY ALL AIRCRAFT HOLDING UNTIL INSTRUCTIONS ARE RECEIVED GIVING TIME OF DEPARTURE FROM HOLDING POINT THEN PILOT SHORTENS HOLDING PATH, REMAINING IN IMMEDIATE VICINITY OF HOLDING POINT SO AS TO LEAVE MARKER EXACTLY AT SPECIFIED TIME.

AIR NAVIGATION RADIO AIDS
LEGEND

(3) - Station guards 3105,4495,6210 kcs.
(4) - Station guards 3105,4495,6210,3117.5 kcs.
ILS - Instrument Landing System.
(7-24)- Hours of operation (7 a.m. to midnight) on a 24-hour clock basis.

→ New or revised data.

RADIO CLASS DESIGNATIONS

AC . . Approach Control Tower, CAA
B . . . Scheduled Broadcast Station (broadcasts weather reports at 15 and 45 minutes after the hour)
C . . . Control Tower, CAA
CA . . Control Tower, Army
CI . . Control Tower (City,County,Private, etc.)
CN . . Control Tower, Navy
D . . . Distantly controlled
FM . . VHF fan type marker (100 watts)
FMK . Compass locator station when combined with fan marker
GCA . Ground control approach system
H . . . Non-directional radio-beacon (homing), power 50 watts or more
ILS . . Instrument Landing System
MMK . Compass locator station when combined with middle marker of Instrument Landing System
MRA . Range (adcock,vertical radiators), power more than 50, less than 150 watts
MRL . Range (loop radiators), power more than 50, less than 150 watts
OM . . VHF outer marker
IM . . VHF boundary marker
K . . . Independent compass locator station
LFM . VHF fan type marker, low powered (5 watts not over 10 miles from range)
MH . . Non-directional radio-beacon (homing), power less than 50 watts
ML . . Range (loop radiators), power less than 50 watts
OMK . Compass locator when installed at outer marker site or within 5.5 miles of middle marker.
P . . . Point to point radio
RA . . Range (adcock, vertical radiators), power 150 watts or more
RL . . Range (loop radiators), power 150 watts or more
S . . . Simultaneous transmission of range signals and voice
T . . . Teletype
TX . . Principal teletype
V . . . Voice communication with aircraft
VAR . Visual-aural VHF range
W . . . Without voice facilities
Z . . . VHF station location marker at a range station

N.B.-Variation is computed at the station. The distance from station to field is computed from the center of the range station to the nearest edge of the usable area of the airport. The bearing is that from the range station to airport or fan marker.

RADIOTELEGRAPH CODE

A ·—	D —··	G ——·	J ·———	M ——	P ·——·	S ···	V ···—	Y —·——
B —···	E ·	H ····	K —·—	N —·	Q ——·—	T —	W ·——	Z ——··
C —·—·	F ··—·	I ··	L ·—··	O ———	R ·—·	U ··—	X —··—	

AIRWAY RADIO COMMUNICATIONS
GENERAL

All radio range stations (class RA, RL, MRA, MRL, ML) emit directional signals (type A2 emission) 1020 cycles per second modulation. All radiobeacon stations (class H and MH) emit non-directional signals (type A2 emission) 1020 cycles per second modulation. Unless otherwise noted, all stations, other than class MH, operate continuously within their assigned hours of service except during interruptions for voice transmission on the same frequencies where simultaneous transmission is not available and during shutdowns for maintenance purposes.

Class MH stations operate on request unless otherwise cited. The effective range of an MH facility is ordinarily 25 miles. Voice communications facilities are available unless "W" (without voice) is included in the classification. Examples: SMRAW, MRLW, HW, HWT. Transmission of voice on a frequency other than the range frequency is indicated as MRLW-V. When no "W" is included in station class the "V" indicates voice feature on two frequencies, namely, range frequency and, generally, V.H.F. of 116.1 mcs. The classification designation "B" denotes that the station broadcasts airway and meteorological information on a scheduled basis at 15 and 45 minutes past each hour.

All Civil Aeronautics Administration stations equipped for voice communications with aircraft stand continuous listening watches on the frequencies of 3105,4495,3117.5, and 6210 kcs., unless otherwise cited.

COMPASS LOCATORS

Compass locators are low-powered nondirectional facilities operating in the 200-415 kc band They are installed near airports to make it easier for pilots to make instrument approaches. When holding is required, they also help the pilot follow a more precise holding pattern. Compass locators, however should not be depended upon as long range navigational aids since they are rarely useful at distances of over 15 or 20 miles.

AUTOMATIC RANGE MONITORING SYSTEM

The automatic range monitoring system will automatically notify all pilots using a range on which it is installed, whenever an abnormal condition exists on the final approach course, the only course monitored at the present time.

The notification, or warning signal, will consist of the slow transmission of one group of three "U"s (. . - . . . - . . -), between two station identification transmissions. This warning signal will be transmitted: (a) whenever a course displacement of 3° or more exists; (b) whenever a sudden and large loss of signal strength occurs; (c) or whenever an apparent on-course signal (loss of N-A keying, producing a monotone which sounds like an on-course signal) exists throughout all quadrants.

Loss of signal strength is obvious, and loss of N-A keying is easily ascertainable by the pilot whenever the three "U"s identify an abnormal condition. The flier should suspect course displacement, upon hearing the warning signal, if there has been no drop in range signal strength, & the interlocked N & A on-course signal is well defined. On the other hand, the loss of N-A keying is indicated by warning transmission once only, when normal identifications are also missing.

In the case of range course displacement, the greater the course displacement, the earlier in the period between station identification transmissions will the "UUU" signal be heard. An occasional warning signal transmission not repeated in every cycle, followed by the normal identification, may be disregarded since it may be occasioned simply by momentary power fluctuations.

INSTRUMENT LANDING SYSTEMS

An Instrument Landing System comprises a localizer (possibly a glide path), and a boundary, middle, and outer marker. Infrequently, the middle or boundary marker is not commissioned at present and future installations will have no boundary markers. The entire system of transmitters (localizer, glide path, and markers) operates on V.H.F. All markers operates on 75 mcs.

Compass locator stations, on the other hand, operate on the low frequency 200-415 kilocycle band. Compass locator data will be found under marker data on the second line of those stations having such facilities. These are, with rare exceptions, located at the same sites as the V.H.F. markers, and have single letter identifications.

The localizer course of the Instrument Landing System divides the blue sector (150 cycles), which is to the right of the course in respect to the landing aircraft on final approach, from the yellow sector (90 cycles), which is left.

VHF RADIO RANGES

Simultaneous Visual-Aural VHF Radio Ranges have two visual and two aural courses with simultaneous voice transmission on the range frequency. A range of this type operates in the band 112 to 118 MC. (Certain stations have been temporarily assigned the following frequencies: 108.3 mc, 108.7 mc, 109.1 mc.). Modulation frequencies of 90 cps and 150 cps are used to produce the visual courses. The sector in which the 90 cps modulation predominates is to be known as the "Yellow Sector" and that in which the 150 cps modulation predominates is to be known as the "Blue Sector". The aural courses are produced through the use of "N" and "A" signals with modulation frequency of 1020 cps.

VHF RADIO RANGE ORIENTATION: The assignment of the blue and yellow sectors and the "A" and "N" sectors of C.A.A. VHF radio ranges is accomplished in accordance with the following rules:

(a) On Green and Red Airways, the blue sector lies north of the visual course, the yellow south; the "N" sector lies to the east of the aural course; the "A" west.

(b) On Amber and Blue Airways, the blue sector lies west of the visual course, the yellow east; the "N" sector lies to the north of the aural course, the "A" south.

(c) The visual courses are projected along the airway, the aural courses across the airway.

U. S. WEATHER BROADCASTS AND TRANSMISSIONS

All continuously operated CAA Radio Range and Radio Beacon Stations having voice facilities on the Range or Radio Beacon Frequencies broadcast weather reports at 15 and 45 minutes past each hour.

At each station the material broadcast consists of the local weather report and the latest available surface weather reports from surrounding locations. Reports more than one hour old are not broadcast.

FILING OF "OVER" REPORTS

Pilots should make every effort to file "over" reports when passing over those points designated as "Radio Fixes" on the Radio Facilities Charts. Refer to Chart Legend.

Pilots of aircraft operating on contact flight rule flight plans who desire to make flight progress reports shall include in the report the phrase "CFR" flight plan from _____to_____.

Pilots of aircraft operating on instrument flight rule flight plans and who are required, therefore, to make flight progress reports, shall include in the report the phrase "Instrument flight plan". NOTE: The word "instrument", rather than the abbreviation "IFR" is used above to avoid confusion between the abbreviations "CFR" and "IFR" under difficult radio reception conditions.

RADIOTELEGRAPH CALLING PROCEDURE

Radiotelegraph (A-2 emission), in addition to radiotelephone (A3 emission), may be used to call Civil Aeronautics Administration airway communications stations. Radiotelegraph (A1 emission) may be used, but its use will require a prearranged schedule since receivers at the stations are set for A2 and A3 emission only. The Civil Aeronautics Administration airway communications station will reply on the radio range voice channel except as otherwise provided. When calling Civil Aeronautics Administration airway communications stations, it is desired that the radio call letters of the station be used. However, the stations will be on the alert for calls consisting of the radio range identification (listed under "Station Identification"), which may be used after two calls by voice have not been answered by the Civil Aeronautics Administration airway communications station or when unusual circumstances prevail or during emergencies. For example: A pilot using the Richmond, Virginia, radio range, who is unable to contact that station by voice, will radiotelegraph the following, using A2 emission: "RW RW RW K". Upon receipt of such a signal, the aircraft communicator at the Richmond radio range station will acknowledge on the voice channle of the radio range as follows: "UNIDENTIFIED AIRCRAFT CALLING RICHMOND RADIO, OVER." The pilot then would resume use of voice for completion of the contact unless conditions require continuance of radio-telegraph. It is important that pilots use this procedure only after two unsuccessful attemps by voice to contact Civil Aeronautics Administration airway communications stations.

RADIOTELEPHONE (CALLING PROCEDURE)

When calling Civil Aeronautics Administration stations (exceptTowers) or Army and Navy radio ranges, utilize the call "RADIO". When calling all airport control towers, be they Army, Navy, CAA, or municipal utilize the call "TOWER". When calling Army Airways, utilize the call "ARMY AIRWAYS." Examples:

(a) "Jacksonville Radio This Is Stinson 1234.....When calling a radio range
(b) "Jacksonville Tower This Is Waco 4567".....When calling a control tower
(c) "Jacksonville Army Airways This Is Army 725".....When calling an Army Airways Communications Station
(d) "Langley Army Radio This Is Army 472".....When calling an Army radio range

COMBINED UNITED STATES-BRITISH RADIOTELEPHONE (R/T PROCEDURE)

This new procedure has previously been adopted by the War and Navy Departments for use by military aircraft and became effective June 1, 1943 for use by Civil Aeronautics Administration airway communications stations and airport traffic control towers and civilian aircraft. Military pilots may secure complete information from Army publication FM24-9. The major changes in procedure are summarized below for the benefit of civilian pilots not having access to FM 24-9.

1. Use of the words "THIS IS" instead of the word "FROM;
2. Use of the word "OVER" instead of the words "GO AHEAD", to indicate, "MY TRANSMISSION IS ENDED AND I EXPECT A RESPONSE FROM YOU."
3. Use of the word "OUT" when conversation is ended and no response is expected.
4. Use of the phrase "SAY AGAIN", instead of the word "REPEAT" when requesting a repetition.
5. Use of the phrase "I SAY AGAIN", instead of the phrase" I WILL REPEAT", when a repetition is being given.

Examples: WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER MESSAGE FOR YOU (Optional) OVER
CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE FOUR THREE SEND YOUR MESSAGE (Optional) OVER.
WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER (Message) OVER.
CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE ROGER OUT.

Pertinent parts of all current publications, including Manual 60, are superseded insofar as communications procedures are concerned by the new procedure indicated above effective June 1, 1943.

AIRPORT DATA
LEGEND

NAME

(When city and airport names are identical, the airport name is omitted in the interest of space-conservation)

(A) Airport owned or leased in whole or in part by Army
(N) Airport owned or leased in whole or in part by Navy
★ CAA Intermediate Field
(P) Non-military airport available for use by military aircraft (See note 3)

N. B. If the airport name is followed by an (A) for Army or (N) for Navy, the field is exclusively an Army or Navy field. If the field is not exclusively Army or Navy and may be used by civilians, no (A) or (N) follows the airport name.

SIZE — CLASS

40: Length of longest landing strip (unpaved) in hundreds of feet
40h: Length of longest hard-surfaced runway in hundreds of feet (Seaplane landing areas over 5 miles in length are classified as unlimited and indicated as "unl.").

N.B. Only the length of the longest runway is cited, and its direction is not indicated. Space restrictions occasioned this policy, but logic justified it. The logical assumption may be made that runways have been laid out in accordance with the local wind rose. Therefore, in all calms, or gentle-angling winds, or winds aligned with the longest runway, the longest runway will be used. When a wind not aligned with the longest runway is of such intensity that the longest runway cannot be used, this wind makes the use of runway aligned with the wind, even though much shorter than the longest runway, sufficiently long from a safety viewpoint. Too, prior knowledge that there is, for example, a NW/SE runway is of little value to a pilot if, when he arrives over the field the wind is blowing too strongly from another direction to use that runway. Finally, the larger the number indicating the longest runway length, the greater is the assurance of a sufficient number of runways for all-wind coverage.

RADIO

R1: Voice availability via tower, range (or homing device), or voice station.
R2: Range (or homing device), and tower
R3: Range (or homing device) tower, and instrument landing system. ("R" without a numeral indicates instrument landing system only)

LIGHTS

L1: Beacon only.
L2: Beacon and boundary.
L3: Beacon, boundary, and obstruction.
L4: Beacon, boundary, obstruction, and flood.
L5: Beacon, boundary, obstruction, flood, and runway contact.
L6: Beacon, boundary, obstruction, flood, runway contact, and instrument approach.

("L" without a numeral indicates incomplete lighting, such as "flood lights only" or "temporary portable runway lighting only". The class always indicates the highest element available but does not necessarily include all intermediate elements).

SERVICING

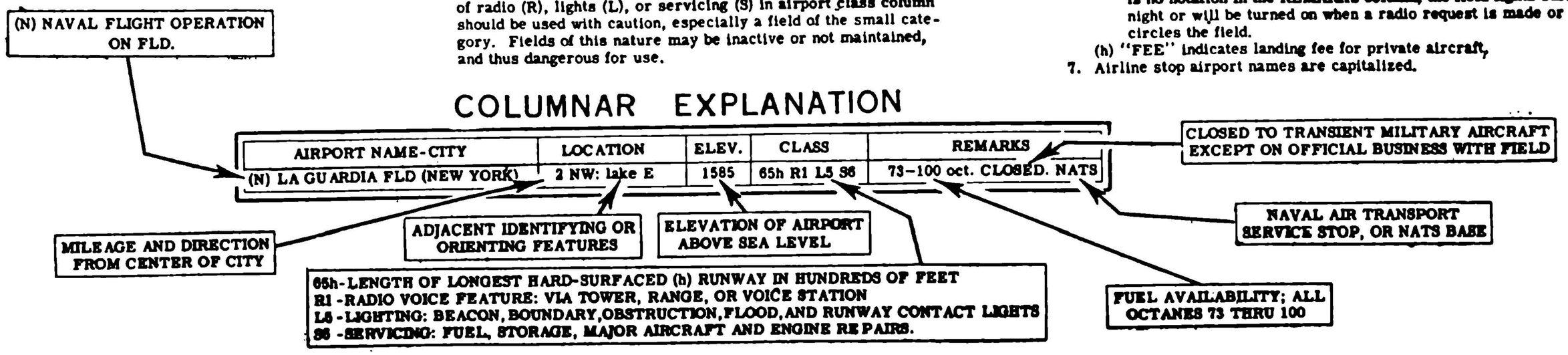
S1: Fuel.
S2: Fuel, storage.
S3: Fuel, storage, minor aircraft repairs.
S4: Fuel, storage, minor aircraft, and minor engine repairs.
S5: Fuel, storage, major aircraft, and minor engine repairs.
S6: Fuel, storage, major aircraft, and major engine repairs.

N. B. Very often small civilian fields (particularly in non-metropolitan areas) will have no full-time attendant. Frequently servicing at such fields in isolated communities is available only by circling the town to attract the operator's attention.
These fields are often recognizable by airport class, comparable to, for example, "18 S1". "18 S1" suggests that the field is not too large, and that the field may not have a full-time attendant even though fuel is stored there.
Lack of radio or lighting facilities, indicated by the absence of an "R" or "L" in the airport class, is a further indication that a full-time attendant may not be available. Absence of an "S" (servicing) indicates definitely that fuel, if available at all, is available only by truck from town. Any field carrying no indication of radio (R), lights (L), or servicing (S) in airport class column should be used with caution, especially a field of the small category. Fields of this nature may be inactive or not maintained, and thus dangerous for use.

NOTES

1. "(NC)" not charted. Indicates not charted because of insufficient data or inability to verify
2. → New or revised data.
3. "(P)" in CITY-AIRPORT NAME column indicates (1) those municipal airports improved with public funds and covered by an agreement between the municipality and the United States Government permitting government planes to use such fields in common with others and without charge, to the extent possible without restriction of non-military operations or (2) other civil airports for which legal permits covering their limited use by military aircraft have been procured and filed with the real estate agency of the War Department.
4. ★ "Effingham Int., 10, LS-IL" in CITY-AIRPORT NAME column indicates that the airport is Effingham CAA Intermediate Field, Site 10, on the St. Louis-Indianapolis Airway. Municipal airports where the lights are maintained by the CAA are listed similarly except that there is no prefixed star or "Int.".
5. In location column, the word "miles" has been eliminated because of space limitations. Mileage is that from the center of city to airport.
6. In Remarks column:
   (a) "91 oct." indicates octane rating of fuel available.
   (b) "CLOSED" indicates closed to all transient military aircraft, except on official business this station or in emergency.
   (c) "Port. B-2 lights" indicates cone-mounted lights outlining runways. These lights are portable and may be shifted from runway to runway.
   (d) "INACTIVE" indicates field is on temporarily inactive status as regards military use and that Army or Navy facilities have been discontinued. Use of Army fields in this status is to be as indicated by Special Notice on first page of the Notices to Airmen section, and in notices published under heading of field. Use of Navy fields is indicated under field heading.
   (e) "PRIVATE" indicates field is available for owner only, and not to be used by others except in emergency.
   (f) OBSTRUCTIONS: Because of space limitations only the more dangerous obstructions are indicated. Natural obstructions, like trees, clearly discernible for contact operations, are frequently omitted, for example. On the other hand, all pole lines are cited.
   (g) "Fld. lgts on prior req." indicates field light are available only by previous phone call, telegram, or letter. It must be remembered that most fields do not have 24-hour operation. Accordingly, the field lights, indicated for such a lighted field (and, in some instances, even the rotating beacons) are available only by prior request. When an airport classification indicates a lighted field, and there is no notation in the REMARKS column, the field lights burn all night or will be turned on when a radio request is made or a plane circles the field.
   (h) "FEE" indicates landing fee for private aircraft.
7. Airline stop airport names are capitalized.

COLUMNAR EXPLANATION



AIRPORT NAME ABBREVIATIONS

(A) - Army Field
AAB - Army Air Base
AAF - Army Air Field
CGAS - Coast Guard Air Station
(N) - Navy Field
NAAF - Naval Aux. Air Facility
NAAS - Naval Aux. Air Station
NAF - Naval Air Facility
LTA - Lighter than Air
MCAS - Marine Corps Air Station
MCAAF - Marine Corps Aux. Air Facility
MCGB - Marine Corps Glider Base
NAS - Naval Air Station
NPG - Naval Proving Grounds
OLF - Outlying Field (Navy)

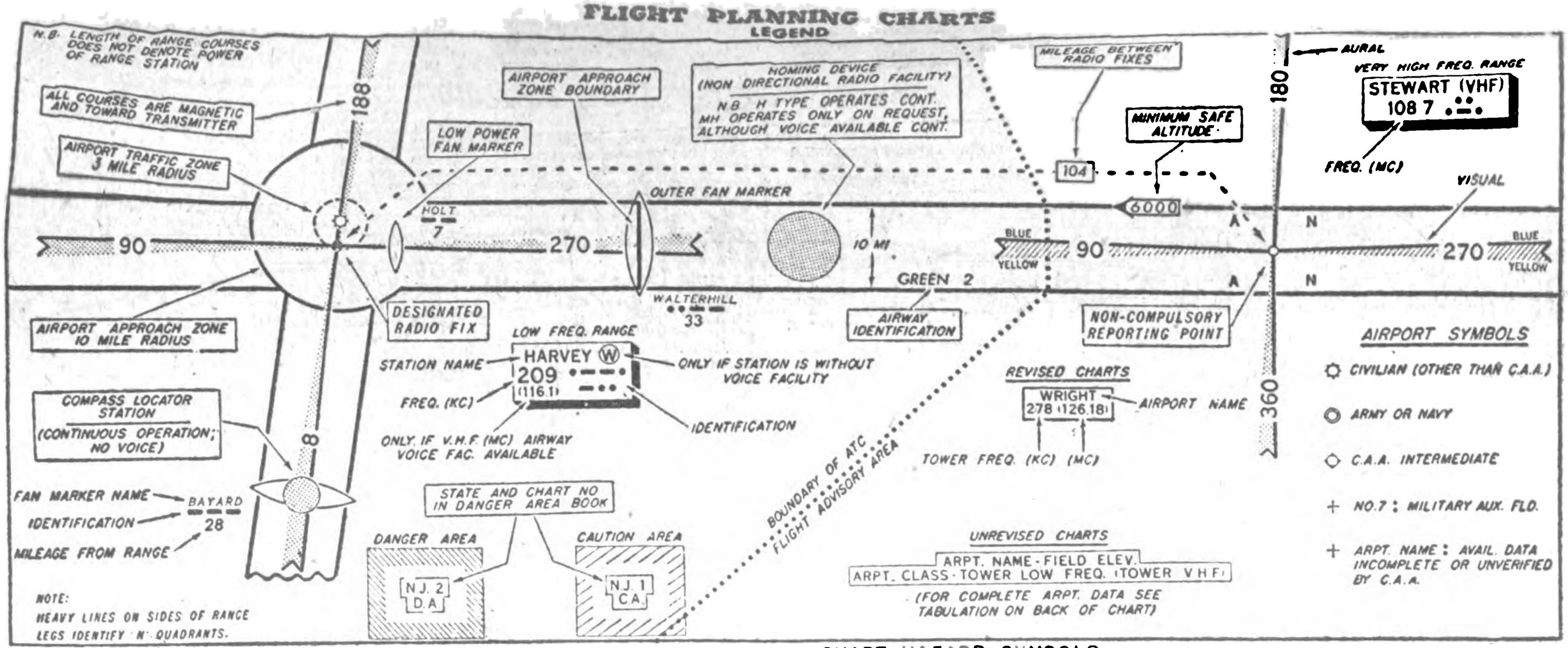


CHART CONTENTS

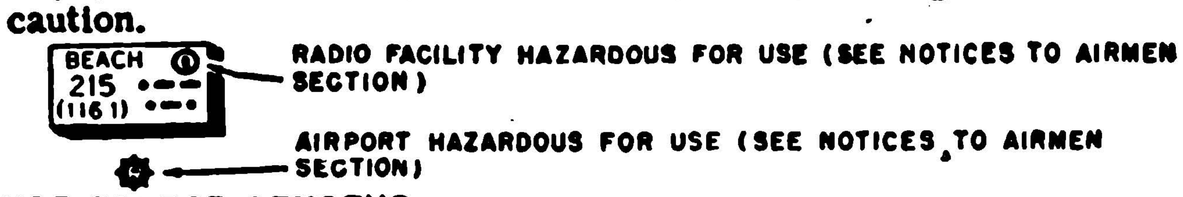
The Flight Planning Charts, in addition to the warning (R) and caution (O) symbols, indicate: (1) all aeronautical radio facilities except air carrier stations; (2) all minimum safe altitudes and fix mileages; (3) all Army and Navy fields and CAA intermediate fields, and all active civilian airports; (4) all danger and caution areas; (5) all designated airways. These charts indicate all facilities, and the current status thereof, on record with the CAA as of 0001 E.S.T. each alternate Tuesday.

CHART PURPOSE & USE

The primary purpose of these charts is to facilitate the planning and execution of cross-country flights. The user should check the charts for the symboled (R) or (O) items between his point of departure and his destination. If there is none, there is no necessity for him to read the Notices to Airmen section as far as temporary items are concerned. As for permanent changes - all major ones, such as new fields, abandoned fields, range frequency changes, etc., are currently reflected on the charts. For record-keeping purposes and for the correction of charts and publications, however, the Notices to Airmen section should be carefully read.

CHART HAZARD SYMBOLS

The current status of facilities and hazards as reported to the CAA is indicated by the symbol system. An airport closed because of construction, an inoperative range, a revised range quadrant identification or range frequency, or course realignment of 20° or more, for example, are indicated by the symbol (R) for red or warning. An airport under construction but usable, or an inoperative control tower, on the other hand, is indicated by the symbol (O) for orange, or caution.



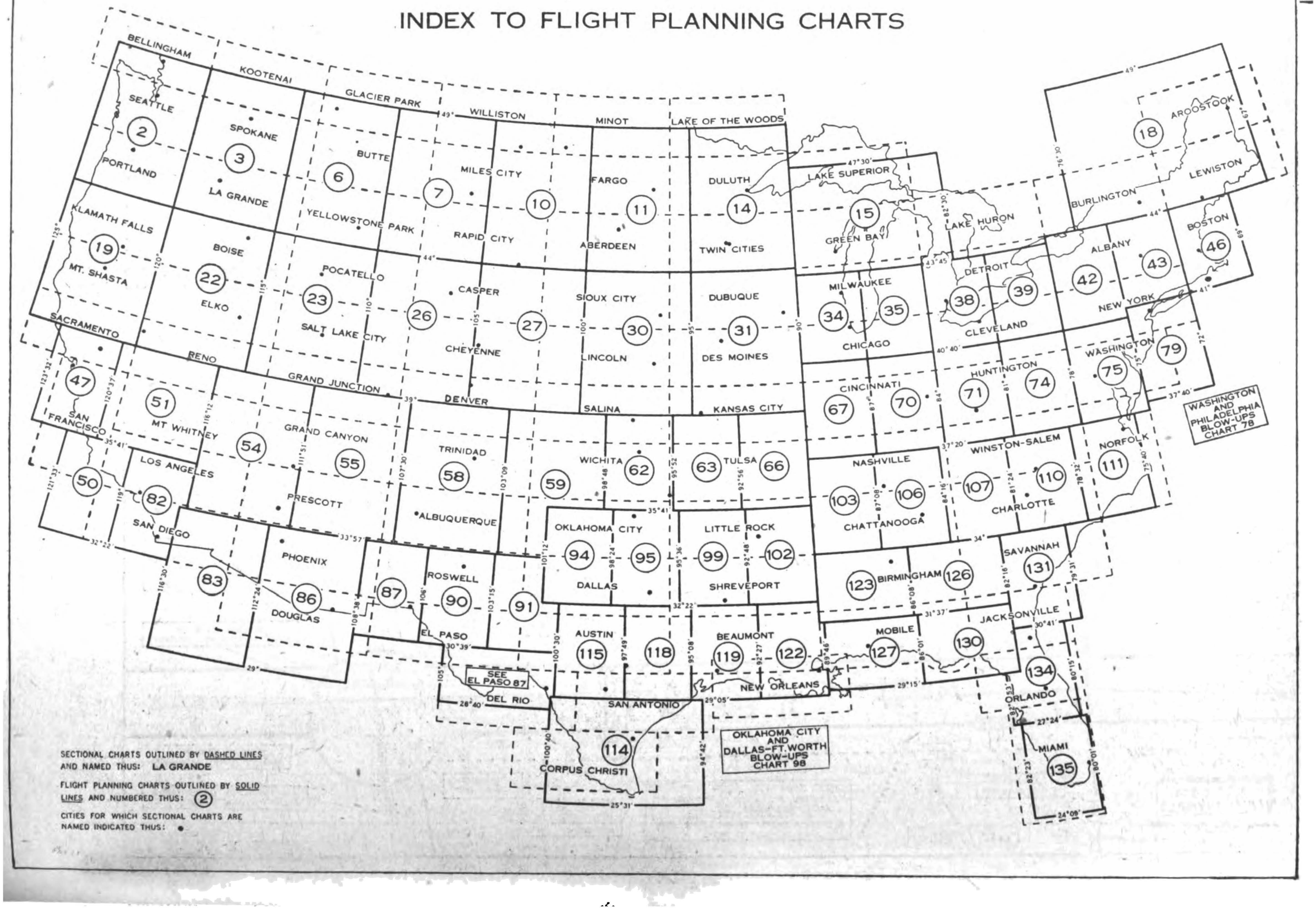
RANGE COURSE LENGTHS

In general, the length of radio range courses shown herein indicates the approximate location where it is expected that a pilot will tune from one radio range to the next one along his route of flight. Such change-over points, however, are not mandatory, and it is expected that a pilot will use his best judgment in selecting change-over points that will best serve his needs.

Warning

Radio range courses are subject to disturbances that result in multiple courses, and signal fades and surges over rough country. Pilots flying over unfamiliar routes are cautioned to be on the alert to detect these vagaries, particularly over mountainous terrain.

INDEX TO FLIGHT PLANNING CHARTS



SECTIONAL CHARTS OUTLINED BY DASHED LINES AND NAMED THUS: LA GRANDE

FLIGHT PLANNING CHARTS OUTLINED BY SOLID LINES AND NUMBERED THUS: (2)

CITIES FOR WHICH SECTIONAL CHARTS ARE NAMED INDICATED THUS: •

RADIO

OREGON

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAY OCEAN FM (Navy)	(- - - -)	FM, 303°, 7.5	Tillamook NAS
EUGENE (Mahlon Sweet)	251 (EU)	SBRAZ-DT, 150°, 4.5	(4)
PORTLAND (AAB)	332 (PD)	SBRAZ-DT, 171°, 3.1	(4)
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
REDMOND (Roberts)	368 (RG)	SBRAZ-DT, 101°, 4.3	(4)
THE DALLES	230 (ND)	SBRAZ-DT, 251°, 2.8	(4)
TILLAMOOK (Navy)	520 (NFS)	BMRLZ	3105,4495
Tillamook NAS	278 (142.74)	CN, 123°, 2.5	(3); 142.74 (8-1630)
WILLAMETTE FM	(- - -)	FM, 76°, 20.6	Portland

WASHINGTON

BELLINGHAM	209 (J I)	SBRAZ-DT, 114°, 3.3	(4)
CAMANO ISL FM (Navy)	(- -)	FM, 123°, 9	Whidbey Island NAS
DUNGENESS FM	(- - - -)	FM, 296°, 62	Seattle
EASTON (Int.)	278 (TP)	MHT	(4)
ELLENSBURG (Bowers)	385 (EB)	SBMRAZ-DT, 270°, 2	(4)
→ EVERETT (Paine)	224 (MI)	BMRL, Z-DT, 330°, 3.1	(4); 116.1
HOBART FM	(- -)	FM, 88°, 15	Seattle
KELSO	266 (HP)	MHT	(4)
LAKEVIEW FM	(- - -)	FM, 175°, 25.5	Seattle
McCHORD (Tacoma) (Army)	272 (DTA)	BMRL; 26°, 1.7	
MONROE FM	(-)	FM, 5°, 30	Seattle
→ MOUNT VERNON OLF (NC)	3295 (126.18) (142.74)	CN	3105,4495;126.18,142.74
NEAH BAY	362 (KQ)	SRAWZ	
PORT ANGELES CGAS	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
SEATTLE (King County)	260 (SA) (116.1)	SBRAZ-VDTX, 296°, 3.3	(4); 116.1
STEVENSON	347 (LZ)	MHT	(4)
TOLEDO (Int.)	239 (GL)	BMRLZ-DT, 236°, 3	(4)
WASHOUGAL FM	(-)	FM, 63°, 17.5	Portland, Oregon
→ WHIDBEY ISLAND (Navy)	353 (NUW)	BMRLZ	(3)
→ Whidbey Island NAS	278 (142.74) (126.18)	CN, 303°, 3.5	(3); 142.74,126.18. Tr. and gds 116.1,140.48 req. (GCA)
→ WHIDBEY ISLAND NAS (NAVY)	522 (K)	MH	(4) Cont.
Whidbey Island NAS (Seaplane)	2870 (142.74)	CN	(3),3155;142.74 (24 hrs advance notice)
WOODLAND FM	(- - - -)	FM, 331°, 23	Portland, Oregon
YAKIMA	320 (YA) (116.1)	BMRLZ-VDT	(4); 116.1
Yakima County Arpt.	278 (118.5)	C; 267°, 4.7	(4); 118.5,131.9,142.74

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Silverton)	1.2 NW;RR E	210	33	Brush N.
Albany	2.5 NE;RR NW	212	26 S6	73,80 oct. Poles W, SW.
★ Arlington Int, 12B, PD-SM	1.4 ENE; riv NW	882	50 L3	
Bend (new)	5.5 ENE;hwy S	3429	34 S6	80 oct. Pwrline SE. Use strips.
Bend (old) (NC)	7.8 N; hwy E	3350	44	Poleline W, NW.
Clatsop Co. (Astoria)	3.5 W;riv E	10	57h	
Coastway School of Aeronautics (Tillamook)	1.4 E;hwy W	55	29 S2	80 oct.
Corvallis	4.9 SSW; RR E	245	52h S6	80,91 oct.
Corvallis Junction	1.3 NNE;RR W	240	20 S1	Ltd 73 oct.
Dallas (new)	1.2 N;RR S	400	23	Poles WSW.
Dallas (old) (NC)	1.6 E;RR S	300	23	UNUSABLE; Under cultivation.
Eugene Airpark	1.6 SW;rd W	420	28 S6	73,80 oct.
Harrisburg	2 NNE; RR E; W	300	25	
Hood River	2.5 S;riv E	605	13	Lgt acft only.
Langmack (Sweet Home)	2 E;hwy N	550	24	Poles W.
Lebanon	1.3 SW;RR E	340	20 S2	80 oct.
(A) Madras (A)	2 NNW;RR SE	2420	74h	
MAHLON SWEET (Eugene)	8 NW; RR NE	365	52h R1 L5 S1	91 oct. Svcg week days only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV) (NC)-Not charted.

OREGON

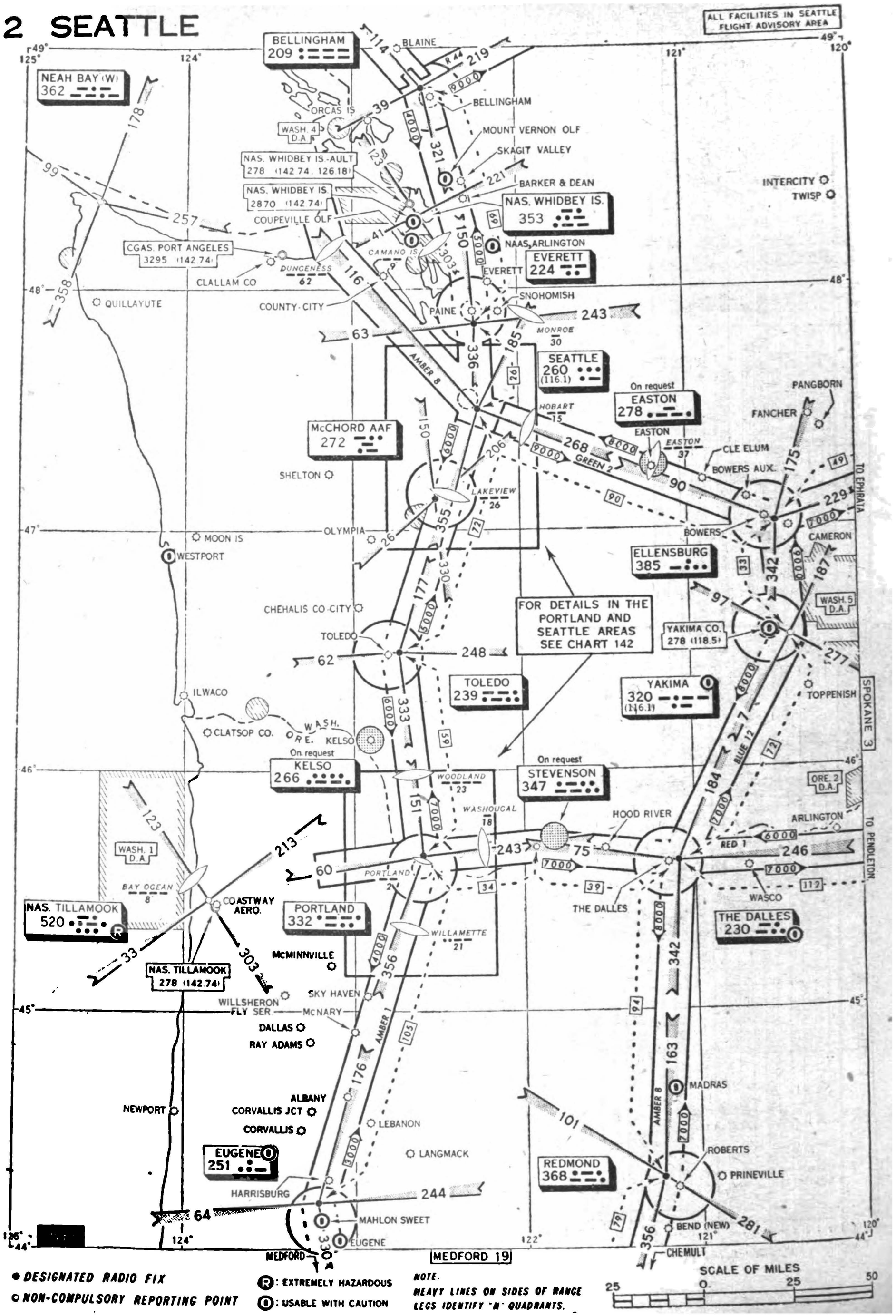
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
McMinnville	3.1 ESE;hwy W	156	50h S1	Ltd 73,80 oct.
McNARY (Salem)	2.2 SSE;RR SW	207	55h L5 S4	80 oct.;91 oct, emerg. No sto
(P) Newport	4 S;ocean W	160	51h L5 S6	80 oct, No sto.
Prineville	2.9 SW;hwy SW	3240	37 S6	80 oct.
Ray Adams (Monmouth)	2.2 NNW;RR E	195	23 S1	80 oct, Cattle on fld.
(P) Roberts (Redmond)	1.5 SE;hwy N	3064	70h R1 S2	80 oct.
Santiam Junction Flgt Strip (Idanha) (NC)	21.5 SSE;hwys N	4000	30	Trees W, E.
Sky Haven (Brooks)	1.6 NE;RR W	180	17 S1	Ltd 80 oct.
The Dalles	1.7 NE	239	51h R1 L5 S6	80,91 oct.
(N) Tillamook NAS (N)	3 SE; riv N	35	50h R2 L5 S4	91 oct. Used by LTA;HTA.
Vernonia (NC)	2.4 WSW;riv S	620	29	
Wasco	0.4 E;RR SW	1420	18 S1	Ltd 80 oct.
Willsheron (Sheridan)	2.1 SSW;RR NNE	275	15 S1	80 oct.

WASHINGTON

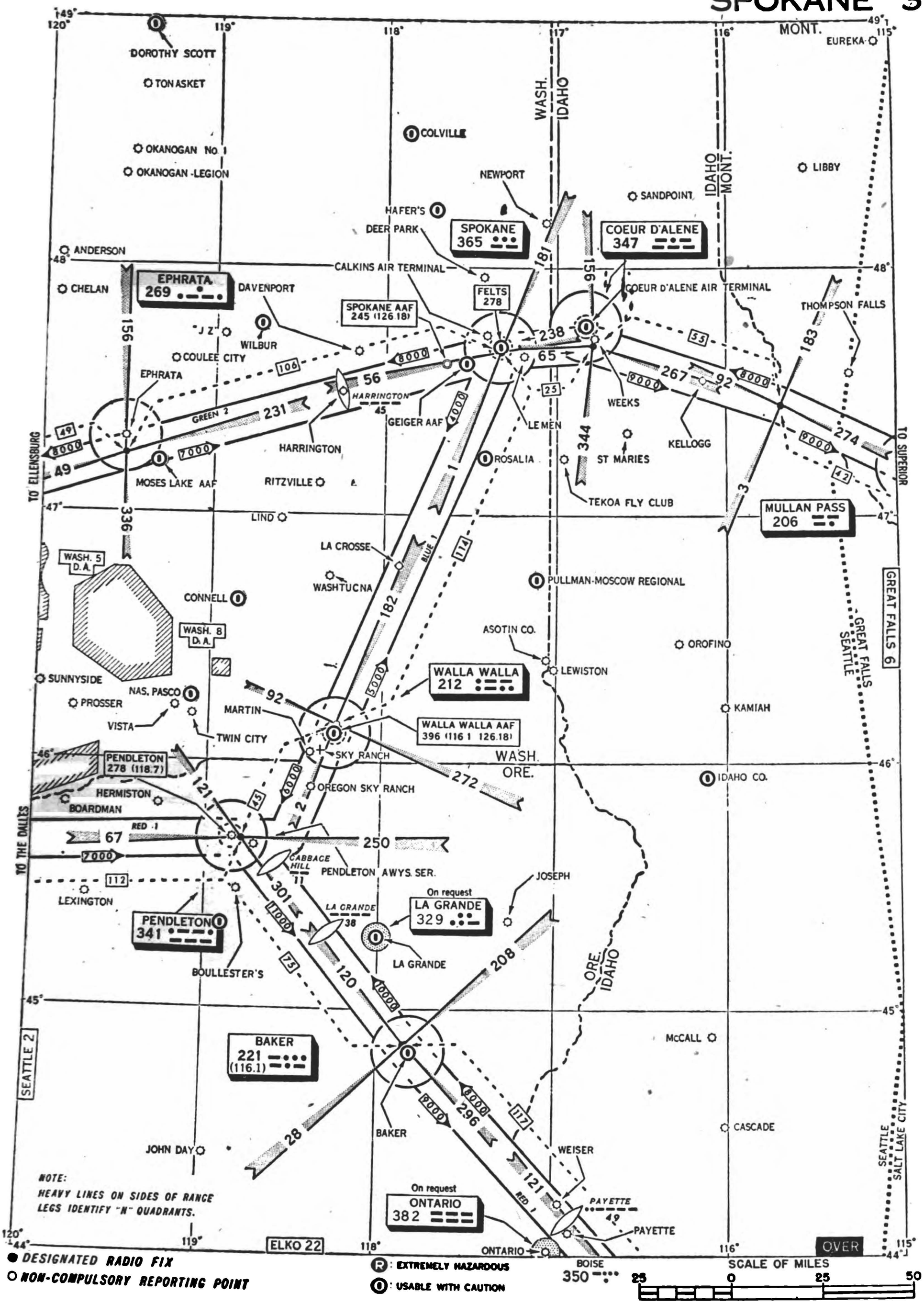
(N) Arlington NAAS (N)	3 SW;hwy W	129	50h	INACTIVE.
Barker & Dean (Mt. Vernon)	2.2 S;RR, riv W	4	20 S4	73,80 oct. No sto. Trees NW.
BELLINGHAM	4.5 NW;hwy E	158	50h R1 L5 S4	73 oct. No sto. Fld lgts prior req. ARPT OF ENTRY
Blaine	0.5 E;RR W	15	18 S1	80 oct.
(P) Bowers (Ellensburg)	2.5 NE;hwy S	1729	59h R1 L5 S6	80 oct. Ctc lgts prior req.
Bowers Aux. (Ellensburg)	8.6 NNW	2140	30	
Cameron (Kittitas)	0.5 N;RR S	1650	26 S2	80 oct.
(P) Chehalis Co.-City	0.6 NW;RR E	174	50h S6	80 oct, No sto.
Clallam County (Port Angeles)	2.9 WNW;RR NW	290	52h S2	80 oct.
Cle Elum	2.4 E;hwy S	1930	25 S4	80 oct.
County-City (Port Townsend)	5 SSW	110	33 S2	80 oct. Pole lines ESE. WNW ARPT OF ENTRY.
(N) Coupeville OLF (N)	2 SE	199	54h	
★ Easton Int, 5B, SA-HL	1.7 NNW;RR SW	2221	30 R1 L2	Trees, mtns WNW.
Everett	2.7 NNE;riv N	15	21 S4	80 oct, 30' hangar W.
Fancher (Wenatchee)	2.5 NE;riv W	1440	33h L3 S6	80 oct. Fld lgts prior req.
Forks (NC)	1 SW;rd S	286	23	75' trees E. HAZARDOUS.
Goldendale (NC)	0.6 SE;RR W	1600	20	Poleline E, SE. Ditch center
Ilwaco	1.5 ENE;riv S	8	20 S2	80 oct, HAZARDOUS
Intercity, USFS (Winthrop	4 SSE;riv SW	1650	32 S1	73,91 oct. Mtns SE.
Kelso, 61A, SF-SA	1.4 S;RR SW	25	29 R1 L3 S6	80 oct. Poles, trees NW.
Kenmore, (Bothell) (NC)	2.3 NW;rd E	420	17	12-14 brush NNE, SSW.
(P) Moon Island (Aberdeen)	6 W;harb. N,S	14	50h L5 S6	80,91 oct.
(N) Mt. Vernon OLF (N)	5 NW;RR S	146	53h R1	Pole line N, CLOSED
Olympia	4.5 S;hwy E	190	50h S4	80 oct. Trees W.
Orcas Island (E. Sound)	0,7 N;hwy E	25	12	
Paine (Everett)	6,5 SW;hwy NE	598	65h R1 L5 S6	80 oct. Fld lgts prior req.
PANGBORN (Wenatchee)	5,3 ESE;hwy S	1246	46h L5	Contact lgts prior req.
Pasayten. USFS (Winthrop) (NC)	38 NW;riv E	4250	28	Use in emerg. only. Closed to public Lgts pri- or req.
Port Angeles CGAS	2 NNE	13	45h R1 L5 S1	91,100 oct. No bcn.
Randle, USFS (NC)	1 ESE;riv S	940	13	Pwr line WSW. Cattle on fld.
Quillayute	0.7 NNW;8 W Forks	195	50h	
Shelton	2,5 NW;hwy ENE	278	52h	Tower NW.
Skagit Valley Air Svc. (Burlington)	0.7 S;RR E	35	20 S1	80 oct. Stack N.
Snohomish	0.9 SW;RR N	16	19 S4	80 oct. Poles, trees ESE.
Snoqualmie Pass (North Bend) (NC)	3,5 ESE;hwy S	680	24	Trees WNW, ESE.
★ Toledo Int, 63B, SF-SA	3 NE;riv S	371	50h R1 L3	
Toppenish	3,2 SSW;hwy E	835	32 S5	80 oct.
Twisp	1.9 SE;riv S	1620	19 S1	80 oct. Trees, hills WNW.
Westport	0,5 N;harbor E	5	18 S1	80 oct.
(N) Whidbey Island NAS	3 NW Oak Harbor	24	70h R2 L6 S2	91,100 oct. (N)
YAKIMA COUNTY	2,8 SSW	1058	50h R2 L5 S6	73,80,100 oct. Poleline S.

→ NEW OR REVISED DATA

2 SEATTLE


ALL FACILITIES IN SEATTLE FLIGHT ADVISORY AREA
BELLINGHAM 209
NEAH BAY (W) 362
BLAINE
ORCAS IS
WASH. 4 D.A.
NAS. WHIDBEY IS.-AULT 278 (142.74, 126.18)
NAS. WHIDBEY IS. 2870 (142.74)
COUPEVILLE OLF
BELLINGHAM
MOUNT VERNON OLF
SKAGIT VALLEY
BARKER & DEAN
NAS. WHIDBEY IS. 353
NAAS, ARLINGTON
EVERETT 224
EVERETT
SNOHOMISH
PAINE
MONROE
30
SEATTLE 260 (116.1)
INTERCITY
TWISP
CGAS. PORT ANGELES 3295 (142.74)
CLALLAM CO
DUNGENESS
62
CAMANO IS
QUILLAYUTE
COUNTY-CITY
AMBER 8
HOBART
15
On request
EASTON 278
PANGBORN
FANCHER
McCHORD AAF 272
SHELTON
LAKEVIEW
26
EASTON
37
CLE ELUM
BOWERS AUX.
GREEN 2
TO EPHRATA
BOWERS
CAMERON
ELLENSBURG 385
MOON IS
OLYMPIA
WESTPORT
CHEHALIS CO-CITY
FOR DETAILS IN THE PORTLAND AND SEATTLE AREAS SEE CHART 142
WASH. 5 D.A.
YAKIMA CO. 278 (118.5)
TOLEDO
TOLEDO 239
YAKIMA 320 (116.1)
TOPPENISH
SPOKANE 3
ILWACO
CLATSOP CO.
WASH.
ORE.
KELSO
On request
KELSO 266
WOODLAND
23
On request
STEVENSON 347
BLUE 12
ORE. 2 D.A.
WASHOUGAL
HOOD RIVER
ARLINGTON
TO PENDLETON
WASH. 1 D.A.
BAY OCEAN
8
PORTLAND
2
RED 1
WASCO
COASTWAY AERO.
NAS. TILLAMOOK 520
PORTLAND 332
THE DALLES
THE DALLES 230
WILLAMETTE
21
McMINNVILLE
NAS. TILLAMOOK 278 (142.74)
SKY HAVEN
WILLSHERON FLY SER
McNARY
DALLAS
RAY ADAMS
AMBER 1
NEWPORT
ALBANY
CORVALLIS JCT
CORVALLIS
LEBANON
LANGMACK
EUGENE 251
HARRISBURG
MAHLON SWEET
EUGENE
MEDFORD
REDMOND 368
ROBERTS
PRINEVILLE
MADRAS
AMBER 8
BEND (NEW)
CHEMULT
MEDFORD 19
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE.
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "M" QUADRANTS.

SPOKANE 3


DOROTHY SCOTT
TONASKET
OKANOGAN No. 1
OKANOGAN-LEGION
COLVILLE
NEWPORT
HAFER'S
DEER PARK
SPOKANE 365
COEUR D'ALENE 347
SANDPOINT
LIBBY
EUREKA
MONT.
IDAHO
WASH.
ANDERSON
CALKINS AIR TERMINAL
EPHRATA 269
CHELAN
DAVENPORT
FELTS 278
COEUR D'ALENE AIR TERMINAL
THOMPSON FALLS
SPOKANE AAF 245 (126.18)
WILBUR
COULEE CITY
EPHRATA
HARRINGTON
GEIGER AAF
WEEKS
LEMEN
KELLOGG
ST MARIES
ROSALIA
TEKOA FLY CLUB
MOSES LAKE AAF
RITZVILLE
HARRINGTON
TO ELLENSBURG
TO SUPERIOR
LIND
MULLAN PASS 206
LA CROSSE
WASHTUCNA
CONNELL
WASH. 5 D.A.
WASH. 8 D.A.
PULLMAN-MOSCOW REGIONAL
GREAT FALLS 6
GREAT FALLS SEATTLE
ASOTIN CO.
OROFINO
LEWISTON
WALLA WALLA 212
SUNNYSIDE
NAS. PASCO
PROSSER
VISTA
TWIN CITY
MARTIN
KAMIAH
WALLA WALLA AAF 396 (116.1 126.18)
SKY RANCH
WASH.
ORE.
PENDLETON 278 (118.7)
OREGON SKY RANCH
IDAHO CO.
HERMISTON
BOARDMAN
TO THE DALLES
CABBAGE HILL
PENDLETON AWYS. SER.
JOSEPH
LEXINGTON
On request
LA GRANDE 329
LA GRANDE
PENDLETON 341
BOULLESTER'S
ORE. IDAHO
McCALL
SEATTLE 2
BAKER 221 (116.1)
BAKER
JOHN DAY
CASCADE
SEATTLE SALT LAKE CITY
WEISER
On request
ONTARIO 382
PAYETTE
ONTARIO
BOISE 350
ELKO 22
OVER
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
25 0 25 50

SPOKANE

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COEUR D'ALENE (Air Terminal)	347 (KO)	BMRLZ-DT, 321°,5.2	(4)
PAYETTE FM	(..- - - -)	FM, 301°,49	Boise
MONTANA			
MULLAN PASS	206 (MN)	BMRLZ-DT	(4)
OREGON			
BAKER	221 (BK)(116.1)	SBRAZ-VDT;116°,2.1	(4); 116.1
CABBAGE HILL FM	(- -)	FM, 121°, 11	Pendleton
LA GRANDE	329 (IU)	MHT	(4)
ONTARIO	382 (OO)	MHT	(4)
PENDLETON	341 (PO)	SBRAZ-DT	(4)
Pendleton Field	278 (118.7)	C; 247°,2.3	(4);131.9,126.18,118.7
→ LA GRANDE FM	(- - - -)	FM, 300°,38	Baker
WASHINGTON			
EPHRATA	269 (EP)	BMRLZ-DT; 336°, 3.9	(4)
→ FELTS (Spokane)	278 (118.5)	C	(4);118.5,126.18,131.9
HARRINGTON FM	(- - - -)	FM,236°,45.3	Spokane
SPOKANE (Felts)	365 (SM)	SBRAZ-DT;332°,1	(4)
SPOKANE AAF	245 (126.18)	CA	(3); 126.18
WALLA WALLA	212 (WL)	SBMRLZ-DT	(4)
Walla Walla AAF	396 (126.18)(116.1)	CA;182°, 4	(4);126.18,116.1 (7-24)

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495,6210 kcs.. (4)-3105.4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

IDAHO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cascade	1 E;rd N	4765	29 S2	80 oct.Pole line NW.
Cayuse Creek.USFS (NC)	40 ENE Pierce	3700	23	
Chamberlain.USFS (Dixie)(NC)	17.6 SE	5765	21	Maintained May to Nov.
Coeur D'Alene Air Terminal	6.3 NNW;RR NW	2310	54h R1 L3 S1	80 oct.
Dixie,USFS (NC)	4 SW;creek E	5200	28	Obst N,E,S.
Idaho Co.(Grangeville)	0.9 N;rd W	3295	44 S2	80 oct,20 pole line W.
Kamiah	0.6 SE;RR E	1194	28	Rough, Trees NNW.
Kellogg Int,29B,SA-HL	0.8 NW;riv N	2300	38 L3 S4	80 oct,10' dike W.
Landmark,USFS(Knox) (NC)	7.7 ESE	6680	15	Maintained June to Nov.
(P) Lewiston	2 S;riv NW	1426	50h	
McCall	1 S;RR W	5021	23 S4	80 oct.Trees W.
Orofino	1.3 W;riv NE	1000	24 S1	80 oct.1000' mtns WNW
Payette	2 NE;RR W	2200	35	Road crosses fld SE. ENE
Priest River (NC)	0.9 NNW;RR S	2165	21	Trees E;hill W.
Sandpoint	1.5 NNW;RR W	2117	27 S4	73,80 oct.No sto.Pole line W.
Tekoa Flying Club (Tensed)	5 NNW;creek N	2650	16 S2	80 oct.
Weeks (Coeur d'Alene)	3 N;RR E	2237	30 S6	73 oct.Trees NE.
Weiser	2.8 S;RR NE	2120	34 S2	73 oct.
St. Maries	1.2 NW;hwy S	2132	23	
MONTANA				
Eureka	2.7 NNW;RR N	2680	20	
Libby, USFS	1 NE;riv S,E,W	2090	30	Mtns sur fld.
Thompson Falls	3.2 ESE;RR N	2460	25	Mtns E,S.
OREGON				
Baker	4.3 NNE;hwy W	3368	49h R1 L3 S6	80 oct.No sto.
Boardman Flight Strip	5.6 WSW;RR N	378	42h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiv)(NC)-Not charted. → NEW OR REVISED DATA

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boullester s Flying Svc.(Pilot Rock)	0.8 E;hwy N	1780	19 S2	73 oct.
Hug's (Elgin)(NC)	0.8 N;RR E	2670	14	
John Day	0.9 SW;riv N	3600	29	PRIVATE.
Joseph	1.2 W;RR E	4150	33 S2	73,80 oct.
La Grande	5.5 ESE;RR SW	2713	47h R1 L2 S4	80 oct.
Lexington	0.7 N;hwy E;RR SW	1650	30 S1	80 oct.
Ontario	2.5 W;hwy E	2190	45h R1 L3 S6	80 oct,
Oreg.Sky Ranch(Milton)	3.7 SSW;RR E	1300	20 S6	73,80 oct.
PENDLETON	3 WNW;hwy S	1492	63h R2	
Pendleton Airways, Inc (Pendleton)	3.8 ESE;RR N	1200	37 S6	80,91 oct.Poleline E.
Hermiston	1.7 SE;riv N	635	23 S1	80 oct.
WASHINGTON				
Asotin Co.(Clarkston)	0.6 N	760	34 S6	80,91 oct.Mtn 1 mi W.
Anderson (Pateros)	1.6 SSW;RR N	1100	16	Mtns NW.
Calkins Air Terminal (Spokane)	3.8 N;hwy W	2020	53 S6	80 oct.Trees 200' W.
Chelan	4.7 NE;riv E	1250	34 S2	Fuel. Hills W,N,S.
Colville	0.8 E;hwy NW	1875	27 S1	80 oct.
Connell	1.2 SSW;RR W	870	30 L3 S1	80 oct.
Coulee City	2.2 E;RR W	1700	33 S1	80 oct.
Davenport	0.9 WNW;hwy S	2425	28 S1	80 oct.Obsts ENE.
(P) Deer Park	2.6 ENE	2200	61h S4	80 oct.
Dorothy Scott (Orov 1)	3 NNE;lake W	1150	40 S1	73 oct.2000' mtn S.
Ephrata	2 SE;hwy NW	1258	73h R1 S6	80 oct.
Fairweather(Republic)	0.8 S;riv E	2500	20	Trees N,S. (NC)
FELTS (Spokane)	4.9 ENE;riv N	1962	45h R2 L5 S6	73-91oct.ARPT OF ENTRY
(N) Geiger (Spokane)(A)	6.5 SW;hwy N	2354	82h	INACTIVE.
Hafer's Ranch (Chewelah)	3.6 SSW;RR E	1700	18	
★ Harrington Int,19,SA-HL	1 NNW;hwy E	2305	32 L3	
La Crosse,28B,PD-SM	2.5 SW;RR NW,E	1459	37 L3 S1	80 oct.
Lemen Airpark (Opportunity)	3 SE;lake N	2040	32 S4	80 oct.No sto,Poleline NNE
Lind	1.3 NE;RR S	1478	33 L2 S2	80 oct.
Martin (College Pl.)	1.5 WSW; RR N	750	24 S6	80,91 oct.No sto.Trees ENE.
(A) Moses Lake AAF (A)	6.5 NNW;RR E	1190	100h	INACTIVE.
Newport	1 W;riv NE	2150	29 S2	No fuel.Hills E,W.
Okanogan-Legion (Okanogan)	1.1 E;riv NW	1100	24 S1	80 oct.Posts NE.
Okanogan Flgt Strip (Omak)	4 N	1298	47h	
(N) Pasco NAS (N)	2.8 NNW;RR E	402	47h	INACTIVE.
Prosser	1.4 NW;riv SE	685	40 S6	80,91 oct. Trees W.
Pullman-Moscow Regional (Pullman)	3.4 ENE;RR S	2549	51h S6	80 oct.
Ritzville	0.5 W;RR SW	1800	15 S1	80 oct.Pwrline,bldgs NE.
Rasalia	2.6 W	2180	26 S1	80 oct.Hill NE.
Sky Ranch(Walla Walla)	1.3 SW		32	Pwr line W.Data unverif.
(A) Spokane AAF (A)	12 WSW	2430	80h R1 L5 S6	62,73,91,100 oct.JP-1.No sto
Sullivan Lake (Metaline Falls)	4 ESE;lake S	2590	21	Road crosses fld,caution.
Sunnyside	2 SE;RR NE	730	18 S1	80 oct.
Tonasket	1.9 NNW;riv E	1250	31 S1	80 oct.Pwr line SSW.
Vista (Kennewick)	4.5 W;rivers NW	516	35h	
Wallace (Mead)(NC)	2 W;RR E	1935	26	40 trees NE.
(A) WALLA WALLA AAF	3 NE; hwy S	1186	72h R2 L5 S6	73,91,100 oct. (A)
Washtucna	1 S;RR SE,NW	1000	39 S2	80 oct. Hill NE.
Wilbur	1.8 W;RR S	2175	29 S6	80 oct,Pole line NE.
Twin City (Kennewick)	1.3 SE;RR E	385	30 S6	80,91 oct.
"J Z" (Almira)	1 NNW, RR SW	1950	21	

GREAT FALLS

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DU BOIS (Int.)	388 (DZ)	SBRAZ-DT, 332°,1.7	(4)
MONTANA			
ALBERTON FM	(- - -)	FM, 276°,14.8	Missoula
BELT FM	(- -)	FM, 86°,21.5	Great Falls
BOZEMAN (Gallatin)	329 (BL)	SBMRAZ-DT,319°,0.8	(4)
BUTTE	233 (BT)	BMRLZ-DT,99°,16.1	(4)
CASCADE FM	(- - -)	FM,202°,19.3	Great Falls
CUT BANK	263 (GV)	SBRAZ-DT,327°,3.1	(4)
DILLON (Int.)	379 (DE)	BMRLZ-DT,167°,2	(4)
DRUMMOND (Int.)	296 (DR)	SBMRAZ-DT,185°,1.4	(4)
GREAT FALLS	317 (GT)	SBRAZ-DT	(4)
Great Falls Mun.Arpt.	278 (118.7) (126.18 on req)	AC; 17°, 1.9	(4);126.18,131.9,118.7
GREAT FALLS AAF	219 (126.18)	CA (ILS)	(3); 126.18
HELENA	371 (HL)	SBMRAZ-DT,252°,1.9	(4)
HOMESTAKE FM	(- -)	FM, 275°, 21	Butte
LIVINGSTON (Int.)	224 (LT)	SBMRAZ-DT,247°,2	(4)
McDONALD PASS FM	(- - - -)	FM, 252°, 18	Helena
MISSOULA	308 (MX)(116.1)	SBMRAZ-VDT,120°,1.5	(4); 116.1
STANFORD FM	(- - - -)	FM,270°, 29	Lewistown
SUPERIOR (Int.)	254 (SP)	BMRLZ-DT,275°,0.1	(4)
WHITEHALL (Int.)	284 (WW)	SBRAZ-DT,183°,2.3	(4)
WHITETAIL FM	(-)	FM,352°,15.6	Whitehall
WINSTON FM	(- -)	FM, 100°, 15	Helena

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
GREAT FALLS AAF, MONT.	109.9		23° Mag.	IM (.27)	MM ·····(1.13)	OM -- (4.63)
					MMK	OMK

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105 4495,6210 3117 5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

IDAHO

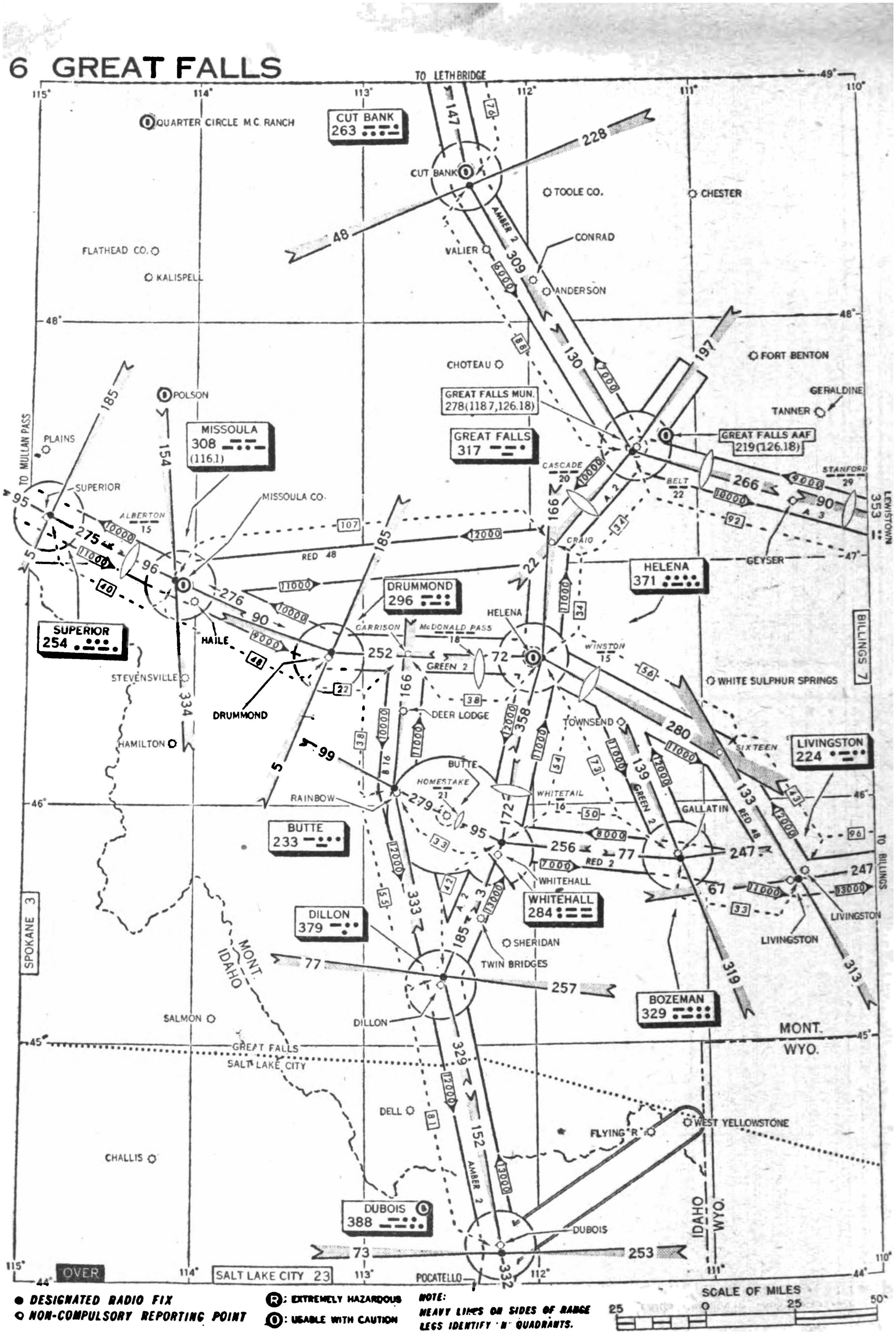
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Spring (NC)	1.1 WNW;RR SE	6350	27	Trees ENE,WSW.
Challis	1.2 NNE;hwy E	5000	34 S1	73,80 oct.
★ Dubois Int,23,SL-GT	0.8 SSE	5123	48 R1 L3	30' pole W.
Flying R (Lake)	2.8 SE;lake W	6630	34 S1	Ltd 73 oct.
Moose Creek,USFS (Red Riv,Hot Sprgs)	26.5 NNE	2200	23	Mtns sur fld. (NC)
Salmon	4 S;riv W	4045	40 S2	80 oct,Mtns NE.
MONTANA				
Anderson (Conrad)	4.8 SE;RR W	3730	16	PRIVATE.
Basin Creek (Flathead Nat l Forest)(NC)	56 NE Missoula	4900	21.	Closed to public
Big Prairie (Flathead Nat l Forest)(NC)	57 NE Missoula	4650	22	Closed to public
Black Bear (Flathead Nat l Forest)(NC)	58 SE Kalispell	4200	22	Closed to public
Bob Gordon (Cascade)	0.9 W;RR E	3480	25	(NC)
BUTTE	4 S;RR W,N	5553	56h R1 L5 S4	80,91 oct.
Chester	1.5 NW;RR S	3150	44	
Chofeau	1.2 NNE;RR W	3810	39 S4	80 oct.
Condon (Flathead Nat l Forest)(NC)	48 NNE Missoula	3690	25	
Conrad	1.1 W; creek S	3530	32 S1	80 oct.
CUT BANK	3 SW;riv l E	3899	87h R1L5 S6	80 oct. ARPT OF ENTRY.
Deer Lodge	1.5 W;RR E	4700	38 S1	80 oct.
Dell Fight Strip,28, SL-GT	1.3 NW;RR E	6008	70h L2	
★ Dillon Int,32, SL-GT	4.6 ENE;riv 2 W	5238	38 R1 L3 S1	80 oct.

MONTANA

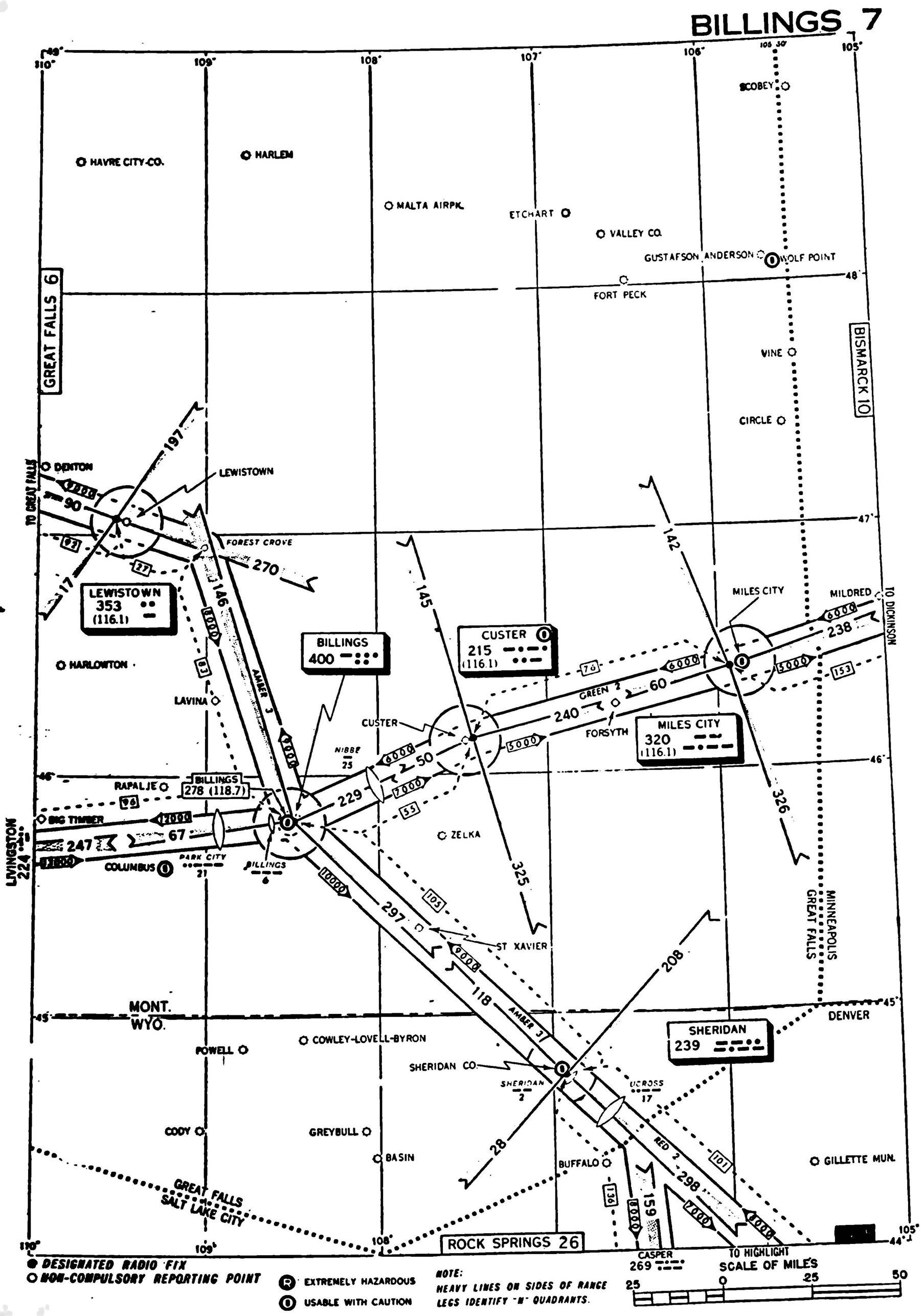
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Drummond Int,44B SA-HL	4 SW;hwy E	4300	36 R1 L3	
Ennis (NC)	1 NW;riv E	4985	23	
Flathead Co.(Kalispell)	7.4 NNE;RR E	2690	47h L2 S1	80 oct.All lgts prior req.
Fort Benton	1.3 NE;RR SE	2870	27	Poles NW.Soft when wet.
Gallatin (Bozeman)	8.5 NW;RR S	4461	52h R1 L5 S6	80-100 oct.
Gates Park,USFS(NC)	35 W Choteau	5400	26	Sur by mtns.Closed to public.
Geraldine Mun.	0.5 S;RR NE	3200	17 S1	Ltd 73 oct.
★ Geyser Int,55,CX-GT	3 SE;RR N	4281	43 L3	
GREAT FALLS	3.5 WSW;RR E	3664	70h R2 L5 S6	80,91 oct. ARPT.OF ENTRY.
(A) Great Falls AAF(A)	4.5 E;RR N	3459	89h R3 L5 S6	73,91,100 oct.IP-1.Foreign clearing station.
Hale (Missoula)	2.3 SSW;hwy NW	3200	38 L4 S6	73 oct.All lgts prior req.
Hamilton	1.3 ENE;hwy W	3640	24 S6	80 oct.Pole line S.
HELENA	2.5 ENE;hwy W	3894	55h R1 L5 S6	80,91 oct.Stack WSW.
Holbrook (Flathead Nat'l Forest)(NC)	58 NE Missoula	4575	20	Sur by mtns.Closed to public.
Hot Springs (NC)	2.2 E;hwy W	2800	27	
Kalispell	1 S;hwy E	2900	34 S4	80 oct.Poles NW.
Livingston	6 ENE;RR N,W	4656	62 S1	80 oct.
★ " Int,10.HL-Twin Cities	2 E;RR N	4630	40 R1 L3	Poles S.
Meadow Creek (Flathead Nat l Forest)	48 SE Kalispell	4000	22	(NC)
MISSOULA COUNTY	5.3 WNW;RR N	3199	71h R1 L5 S2	73,91 oct.
Plains	1.3 NNW;RR E	2500	32 S4	80 oct.No sto.30' Poles NW,NE.
Polson	1.5 W;riv E	2900	23 S4	80 oct.No sto.
Quarter Circle,M.C. Ranch (Polebridge)	4.2 NW;riv W	3600	26 S1	73 oct.Ski-equipped acft only. Nov. thru April.
Rainbow Skyport (Gregson)	0.7 N;RR E,S	5030	40 S1	80 oct.
Schaeffer (Flathead Nat l Forest)(NC)	50 ESE Kalispell	4855	24	Sur by mtns.
Seeley Lake (NC)	1.5 WNW;lake SE	4150	20	Trees NW.
Sheridan	1.5 SE;RR W	5160	27	Brush, cattle on fld.
Six Mile Landing Fld (Huson)(NC)	2 NNW;riv S	3200	24	Hill NE;make SW approach.
Spotted Bear (Flathead Nat l Forest)(NC)	39 SE Kalispell	3800	22	
Stevensville	2 ENE;riv 2 W	3620	30 S2	73 oct.
★ Superior Int,36B,SA-HL	1 S;RR SW	2700	35 R1 L2	Mtns NW;trees SE.
Tanner (Geraldine)	0.5 NW;RR NE	3200	25	
Toole Co.(Shelby)	2 NNW;RR S	3300	26 S2	80 oct.Poles E,SE.
★ Townsend Int,3,HL-Twin Cities	2.2 ENE;riv 3 W	4000	40 L2 S1	73 oct.
Troy (NC)	1.3 NW;riv E	2017	26	Trees SSE.
Twin Bridges	1.5 SE;RR SW	4725	38	
Valier	0.6 S;lake S	3820	35	Caution when wet.
West Yellowstone	1.3 W;RR S	6700	63 S2	91 oct. Trees sur fld.
★ Whitehall Int,36A,SL-GT	6.7 SW;RR N	4602	60 R1 L3	
White Sulphur Sprgs.	4 SSW;RR E	5010	24	Livestock on fld.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing (see page XIV) (NC)-Not charted. → NEW OR REVISED DATA

6 GREAT FALLS



BILLINGS 7



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

(R) EXTREMELY HAZARDOUS

(U) USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

BILLINGS

RADIO — MONTANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BILLINGS	400 (BI)	SBRAZ-DTX	(4)
Billings Airport	278 (118.7)	C; 247°, 1.5	(4);118.7,126.18,131.9
BILLINGS LFM	(- - -)	LFM, 247°, 6	Billings
CUSTER (Int.)	215 (CU)(116.1)	BMRLZ-VDT,230°,2	(4); 116.1
LEWISTOWN	353 (IT)(116.1)	SBRAZ-VDT, 90°,2.9	(4); 116.1
MILES CITY	320 (MY)(116.1)	SBMRAZ-VDT,58°,2.1	(4); 116.1
NIBBE FM	(-)	FM, 49°, 25.4	Billings
PARK CITY FM	(. . - - -)	FM, 247°, 21	Billings
WYOMING			
SHERIDAN LFM	(- -)	LFM, 115°, 2.3	Sheridan
SHERIDAN	239 (ZY)	SBRAZ-DT,298°, 1.8	(4)
UCROSS FM	(. . - -)	FM, 118°, 17.4	Sheridan

S-Simultaneous Range and Voice W-Without Voice Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs (4)-3105 4495 6210 3117.5 kcs. Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available

AIRPORTS — MONTANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Horn Co.(Hardin)(NC)	2.3 ESE;riv W	3000	31	
★ Bigtimber Int.13A.HL-Twin Cities	1.5 SSW;hwy N	4450	43 L3	
BILLINGS	2.5 NW;RR S	3565	57h R2 L4 S6	73,91,100 oct.
Bones Bros. Ranch (Birney) (NC)	2 ESE;crk W	3500	29	ROUGH
Chinook (NC)	2.8 NNE;rd W	2480	42	
Circle	1.3 E;RR N	2400	21	
Columbus	1 ESE;RR N	3575	50 S1	73 oct.Poles W,E,NW.
★ Custer Int.25.HL-Twin Cities	2.3 E;riv NE	2868	42 R1 L3	
Denton	2.2 SSW;RR N	3850	26 S4	73 oct.
Etchart (Tampico)	0.5 NNW;RR S	2100	29 S2	80 oct.Trees SE.
★ Forsyth Int.30.HL-Twin Cities	3 ENE;riv N	2722	30 L3	
Fort Peck	1.6 W;hwy S	2294	30 S1	80 oct.
Gustafson-Anderson (Wolf Point)	0.8 NW;RR S	2040	26 S6	80 oct.Pole line E.
Harlem	2.3 NNE;RR E	2560	24 S2	No fuel
Harlowton	2 WNW;riv S	4400	29 S2	73 oct.
Havre City-County	4 WSW;lake E	2589	48h S4	80 oct.ARPT OF ENTRY.
Ingomar (NC)	0.8 WSW;RR N	2950	24	
Jordan (NC)	1.8 WNW;rd S,W	2637	40	
Lavina Int,44B,CX-GT	1 WNW;RR S	3496	39 L3	
LEWISTOWN	2.5 SW;RR NW	4177	100h R1 L5 S4	80 oct.
Malta Airpark	0.8 SW;RR N	2270	31 S1	80 oct.Shrubs NW.
★ Mildred Int.38.HL-Twin Cities	3.4 WSW;rd E	2535	37 L2	
(P) MILES CITY	2.5 NW;hwy NE	2626	56h R1 L5 S6	73,91 oct.
Poplar (NC)	0.8 N;RR S	1970	33	
Rapelje	1 SE;RR N	4030	38	
Red Lodge (NC)	0 5 WNW;rd N	5600	29	ROUGH
Roundup (NC)	1.9 N;hwy W,S	3500	37	
St.Xavier Int,35,CX-GT	7.3 SSW;riv W	3170	40 L3	
Scobey	1 NW;RR S	2458	36 S1	80 oct.
Valley County (Glasgow)	1.8 NNE;RR S	2298	81h S4	No fuel.
Vine (Vida)	8 S;hwy W	2350	27 S1	80 oct.
Wolf Point	3 E;riv S	1980	35 S2	80,91 oct.
Zelka (Hardin)(NC)	2 W;hwy N	3002	18	
WYOMING				
Basin	2.5 NE;riv E	3775	34	Hills adj E.
Buffalo, 27, CX-GT	2.6 NNW;hwy E	4900	40 L3	
Cody	2 ESE;riv N	5084	47 S6	73,91 oct.Hill E;pole line S.
Cowley-Lovell-Bryon	2 NNE;rd NW	4050	32	
(P) Gillette	5.2 NNW;hwy E	4380	36 S2	73,80 oct.
(P) Grey Bull	2 NW;hwy S	3900	44 S2	73 oct.
(P) Powell	8 NNW	5054	42 S2	73 oct.
(P) SHERIDAN CO.(Sheridan)	2 SSW;hwy E	3961	60h R1 L5 S6	80,91 oct.

h-hard surfaced runways R-radio facilities L-lighting facilities S-servicing. (see page XIV) (NC)-Not charted.

→ NEW OR REVISED DATA

RADIO — NORTH DAKOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISMARCK	230 (RK)(116.1)	SBRAZ-VDT, 260°,2.3	(4); 116.1
DICKINSON (Mun.)	308 (DC)(116.1)	SBMRAZ-VDT,167°,2.1	(4); 116.1
BRISCOLL, FM	(-)	FM, 73°, 30	Bismarck
GOLVA (Int.)	266 (GA)	MHT	(4)
JUDSON FM	(- - -)	FM, 260°, 27	Bismarck
MINOT (Port O Minot)	209 (UI)	BMRLZ-DT,301°, 3.4	(4)
	SOUTH DAKOTA		
PHILIP	206 (IL)	MHT	(4)
PIERRE	347 (PX)	SBRAZ-DT,249°,3.5	(4)
RAPID CITY	221 (RZ)	SBRAZ-DT	(4)
Rapid City AAB	396 (126.18)	CA; 345°, 5.5	(4); 126.18
SPEARFISH (Black Hills Airport)	335 (SE)	HT	(4)

S-Simultaneous Range and Voice; W-Without Voice. Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs.; (4)-3105.4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

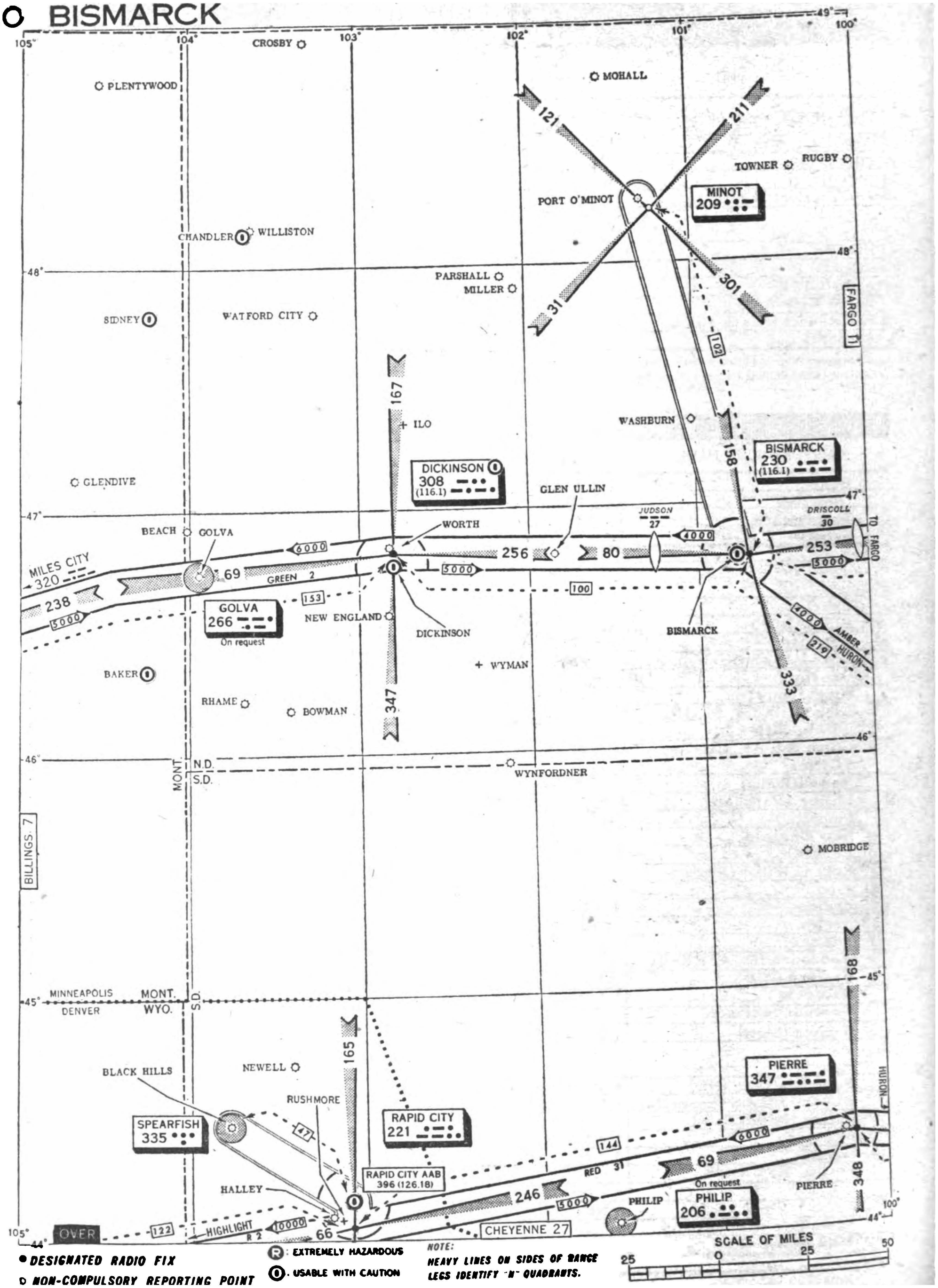
AIRPORTS — MONTANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Baker	0.8 SSE;hwy N	2290	35 S2	80 oct.Poles NW,W.
Glendive	2.5 NE;RR S	2128	28 S6	80 oct. Poles S.
Plentywood	0.5 S;RR NE	2065	24 S4	80 oct.
Sidney	6.6 NW;hwy W	2290	40 S2	80 oct.
	NORTH DAKOTA			
Beach	0.8 NNW;RR W	2814	30 S1	73 oct.
BISMARCK	2.4 SSE;RR ENE	1653	51h R1 L5 S4	73,80,91 oct. No sto.
Bowman	1.5 W;RR N	3000	24	
Chandler (Williston)	3 W;RR SE	1877	24 S6	80 oct.
Crosby	1 N;RR SW	1962	33	
Dickinson Mun.	5.8 S;hwy E	2587	54h R1 L3	
★ Glen Ullin Int, 53, HL-Twin Cities	1.5 WSW;RR N	2084	29 L3	Poles NE,trees E,SE.
★ Golva Int, 43, HL-Twin Cities	1.5 E;hwy W	2781	34 R1 L3	
Ilo (Killdeer)	1.5 SE;hwy N		23 S2	73 oct,Data not verified.
Miller (Parshall)	5 SE;RR N	1950	20 S1	80 oct,Pole line N.
Mohall	0.8 WNW;RR E	1650	26 S2	73 oct. Pole lines S.
New England	2.4 NE;hwy W	2666	24 S2	73,80 oct. Pole line W.
Parshall	1 S;RR N	1970	22	
(P) Port O Minot (Minot)	1.6 NNE;hwy W	1724	58h R1 L5 S4	80,91 oct.No bcn. Ctc lgts prior req. Pwrline SW.
Rhame	1.5 SW;RR NE	3150	23 S1	73 oct,Pole line S.
Rugby	2 NNW;RR SW	1542	26 S6	80 oct.
→ Towner	1.5 NE;RR S	1482	27 S1	80 oct,Pole line N, NW.
★ Washburn Int, 4, RK-UI	5.1 N;hwy W	1905	40 L3	Pole line W.
Watford City	1.2 ENE;hwy S	1975	31 S1	73 oct.
Williston	1.1 NNW;hwy E	1861	24 S6	80,91 oct.Obsts N,E,S.
Worth (Dickinson)	1.8 SW;riv NW	2455	28 S6	73 oct.Hangar,NW.
Wyman (Mott)	1 S;dam N		30 S1	80 oct. Data not verified.
	SOUTH DAKOTA			
Belle Fourche (NC)	8.4 NW;hwy N	3140	50	
BLACK HILLS (Spearfish)	4.5 E;hwy S	3900	53 R1 S6	73, 91 oct.
Halley (Rapid City)	1.5 NNE;riv SE	3300	40 S6	73 oct.
Mobridge	1.2 NW;RR SW	1621	31 S4	80 oct. Pole line E, NE.
(P) Newell	0.2 N	2825	30 S2	73 oct,Pole line SE,W,N,NW
Philip, 31, CX-HR	3.6 E;RR S	2210	40 R1 L3 S6	80 oct,No sto,Pole line N,
PIERRE	3.5 NE;riv SE	1719	69h R1	
(A) Rapid City AAB (A)	8 NE; RR S	3216	83h R2 L5 S4	73,91,100 oct. JP-1.
Rushmore (Rapid City)	3.5 E	3100	31 S6	73,91 oct. Data not verified.
Wynfordner (Lemmon)	1.3 NE;RR S	2580	26 S1	80 oct. Pole line NW.
Dunseith (NC) N.D.	1.5 S	1715	26	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV) (NC)-Not charted.

→ NEW OR REVISED DATA

10 BISMARCK



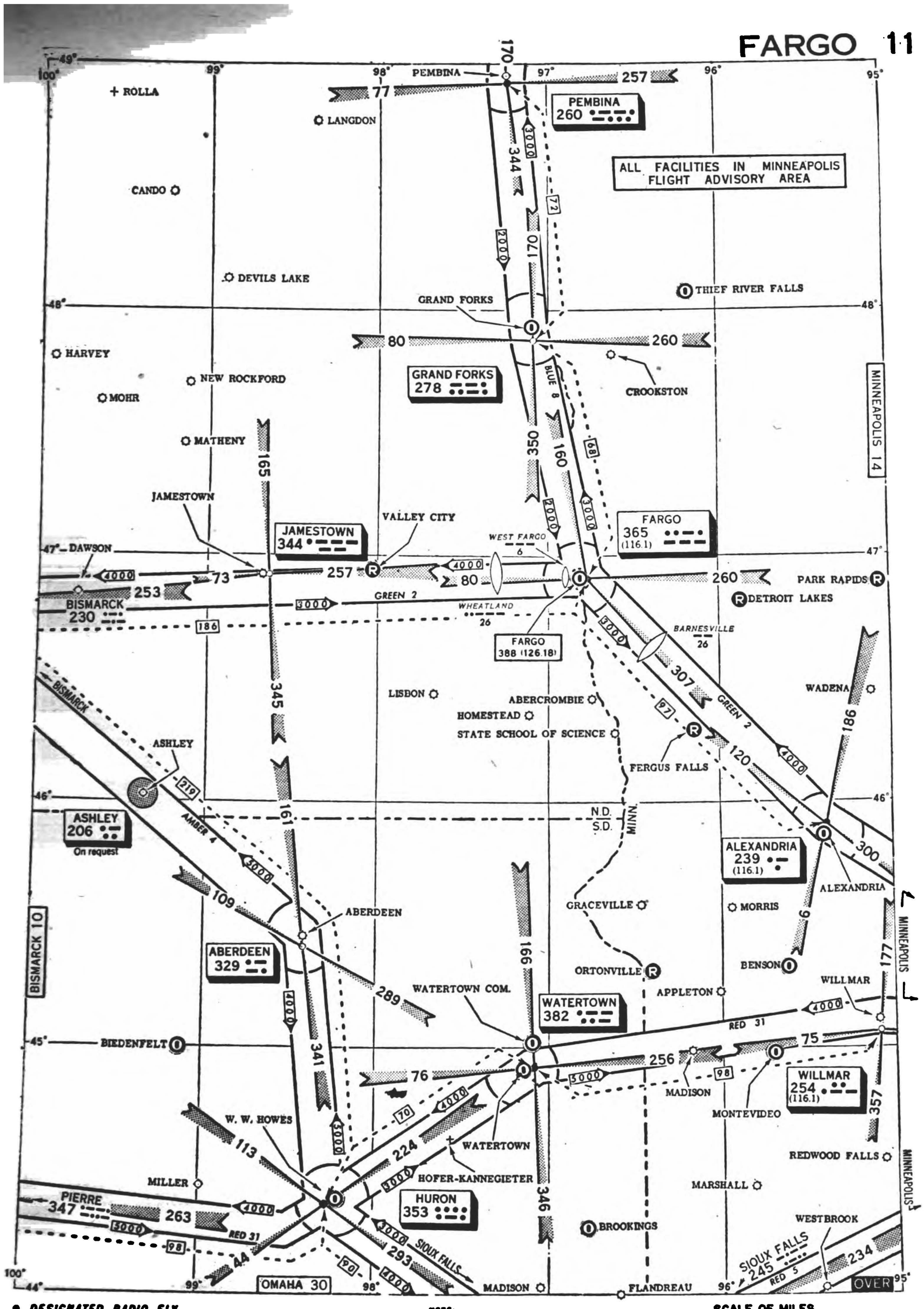
● DESIGNATED RADIO FIX

D NON-COMPULSORY REPORTING POINT

R : EXTREMELY HAZARDOUS

O . USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

SCALE OF MILES
25 0 25 50

FARGO

RADIO — MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	239 (AE)(116.1)	BML2-VDT, 186°, 2	(4); 116.1
BARNESVILLE FM	(- -)	FM, 127°, 26	Fargo, N. D.
→ WILLMAR	254 (IW)(116.1)	SBMRAZ-VDT, 357°, 3.5	(4) ;116.1
NORTH DAKOTA			
ASHLEY (Int.)	206 (AI)	MHT	(4)
FARGO	365 (FO)(116.1)	SBRAZ-VDT,	(3); 116.1
Fargo-Hector Airport	388 (126.18)	, 260°, 0.9	(4); 126.18
GRAND FORKS	278 (GF)	BML2-DT, 350°, 3.4	(4)
JAMESTOWN	344 (JM)	SBMRAZ-DT, 253°, 1.5	(4)
PEMBINA (Int.)	260 (PB)	SBMRAZ-DT, 350°, 1.6	(4)
WEST FARGO LFM	(- - -)	LFM, 260°, 5.5	Fargo
WHEATLAND FM	(. . - - -)	FM, 260°, 25.5	Fargo
SOUTH DAKOTA			
ABERDEEN	329 (AN)	SBRAZ-DT, 341°, 2.5	(4)
HURON (W.W. Howes)	353 (HR)	BMRLZ-DT, 44°, 2.7	(4)
WATERTOWN	382 (WU)	BMRLZ-DT, 256°, 2.9	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MINNESOTA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Alexandria	1.5 SSW; lake NW	1423	57h R1 L5 S4	20, 91 oct.
Appleton	1.9 NNE; riv S	1010	34 S2	80 oct. Pole line S,SE,SW.
Benson	2.4 NW	1031	22	Pole line NW.
Crookston	3 NNW; RR N	875	30 S2	80 oct. Obst sur fld.
Detroit Lakes	2.7 W; RR N	1392	35 S2	80 oct. Rnwy data not verified.
Fergus Falls	4.3 W; RR N	1160	23 S1	80 oct. Pole line W.
Graceville	0.8 WNW; RR S	1110	16	Pole line S.
Madison	1 S; hwy W	1086	31 L3 S6	80 oct.
Marshall	1.5 W; RR NE	1167	35 S4	80 oct.
Montevideo	2.2 NNE; RR W	950	19 S2	80 oct. Pole line W, NW.
Morris	2.7 WSW; RR N	1134	31 S2	80 oct. Trees, pole line NW.
Ortonville	1 ESE; hwys S, W	1090	21	
Park Rapids	1.7 SSW; RR E	1440	28	Pole line E.
Redwood Falls	1.8 NE; riv NE	1025	25 S2	80 oct. Pole line SE, SW.
Thief River Falls	3.6 S; riv W	1110	20 S1	80 oct.
Wadena	1 E; RR NW	1300	30 S1	80 oct. Pole line S, NW.
Westbrook	1 SE; hwy N	1500	18 S1	80 oct. Pole line W.
Willmar, 16, HR-MP	1.5 W; RR E	1130	28 R1 L3 S6	80 oct.
NORTH DAKOTA				
Abercrombie	1.7 SSW; riv E	949	24 S1	80 oct. Pole line E.
* Ashley Int, 40, OH-RK	1 SE; hwy N	2025	40 R1 L3	
Cando	1.1 SW; RR E	1490	26 S1	80 oct.
* Dawson Int, 63,HL-Twin Cities	1 SW; RR N	1760	34 L2	
Devils Lake	2.5 W; hwy S	1450	43h	Pole line W.
→ FARGO-HECTOR (Fargo)	2.9 NNW; RR SW	899	50h R2 L5 S6	73-100 oct.JP-1 fuel.
GRAND FORKS	2.6 WNW; RR S,E	837	49h R1 L5 S6	73,80,91 oct. ARPT OF ENTRY.
Harvey	1.9 N; RR SW	1605	30 S1	80 oct.
Homestead (Wyndmere)	6.2 N; hwy W	1100	19 S1	Ltd 73 oct. Trees E, SW.
(P) Jamestown	1.5 NE; hwy S	1493	58h R1 L3 S6	80 oct.
Langdon	1 W	1608	18 S1	80 oct.
Lisbon	0.8 SSW; RR SE	1151	21 S1	73 oct. Pole lines N, S.
Matheny (Carrington)	1.3 W; RR, hwy N	1580	32 S1	80 oct. Poles NE, NW.
Mohr (Pessenden)	1.5 SW; RR NE	1620	22 S1	80 oct.
New Rockford	1.5 N	1533	30	
Pembina Int, 14, PO-WO	1 S; RR W	792	28 R1 L3 S4	80 oct. No ngt. svcg. ARPT. OF ENTRY.
Rolla	0.7 N; lake S		21 S2	80 oct. Data not verified.
St.School of Science (Wahpeton)	0.8 N; RR W	964	30 S6	80 oct. Pole line N; pwr line E.
(P) Valley City, 71,HL-Twin Cities	1.5 NW; riv NE	1375	31 L3	
SOUTH DAKOTA				
Aberdeen	2.9 E; RR N	1299	49h R1 L5 S6	73,80,91 oct.
Biedenfelt (Faulkton)	2 S; rd, RR E	1590	26 S1	73 oct. Poles E.
Brookings	2.5 SSE; hwy W	1600	26 S4	80 oct.
Eureka	6 N; rd W	1895	28	Poles W.
Flandreau	3 S; hwy N, E	1575	27 S1	80 oct. Poles sur fld.
Madison	3.7 ENE; hwy S	1688	26 S2	80 oct. Trees W; pole NW.
Miller, Int, 44, CX-HR	5.6 S; hwy E	1735	37 L2	
Redfield	1 SSW; RR NE	1300	25	Pole line E.
WATERTOWN	2 NW; RR NE	1736	69h R1 L5 S1	80, 91 oct.
" Watertown Commercial	8.3 N; hwy E	1779	30	Poles E, SE.
W.W. HOWES (Huron)	1.3 NNW	1287	43h R1 L3 S6	73, 80,91 oct.
Hofer-Kannegieter (Willow Lake) (S.D.)	1.5 E	1787	22 S2	73 oct. Pole line N. Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV) (NC)-Not charted. → NEW OR REVISED DATA

MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DULUTH (Williamson-Johnson)	221 (DH)	SBRAZ-DT, 13°, 4	(4)
FARGO FM	(- - - -)	FM, 298°, 24	Minneapolis
HASTINGS FM	(- -)	FM, 118°, 10.2	Minneapolis
JORDAN FM	(- - -)	FM, 238°, 26	Minneapolis
LAKE CITY	206 (FE)(116.1)	MHVT	(4); 116.1
MINNEAPOLIS (Wold Chamberlain Field)	266 (MP)	SBRAZ-DT, 298°, 3.5	(3)
WOLD CHAMBERLAIN, (Minneapolis)	278 (126.18)(142.74)	AC	(4); 116.1, 126.18, 142.74

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

CITY-AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
Gogebic Co. (Ironwood)	4.5 NNE; RR S	1246	24 S4	80 oct. Soft when wet.

MINNESOTA

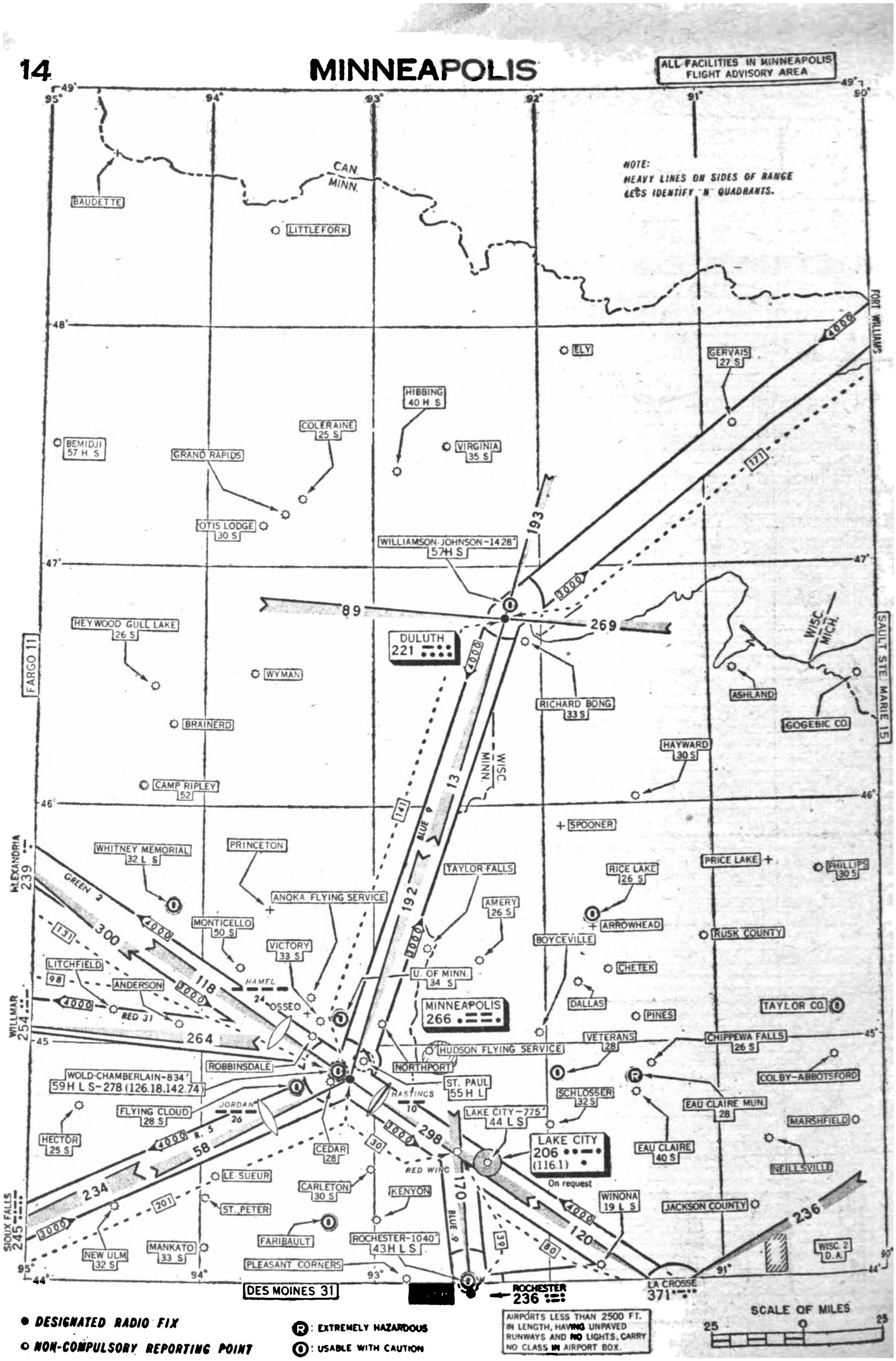
Anderson (Cokato)	2.6 ENE;RR S	1020	23 S2	80 oct. Poles S; trees W.
Anoka Flying Service	1.2 SE; riv SW	896	19 S1	80 oct, Poles NE; 629' twr SE.
Baudette	1 N; river NE		27 S2	80 oct. Data not verified.
Bemidji	2.5 NNW; RR S	1395	57h S4	80, 91 oct. Rnwy data not verified.
Brainerd	1.3 SSE; hwy W	1210	22 S2	Ltd. 73 oct.
(1) Camp Ripley (Little Falls)(A)	7.5 N; riv E	1150	52	Tank SE corner.
(P) Carleton (Stanton)	0.7 NE; RR W	870	30 S6	80 oct. Pole lines surround fld.
Cedar (Minneapolis)	8.5 S; RR W	811	28	
Coleraine	0.8 SSE	1390	25 S1	80 oct.
Ely	1.2 E	1425	24 S2	pole line W; trees surround fld.
Faribault	1.6 S; hwy W	1060	20 S1	80 oct, Pwr line W.
Fleming (South St. Paul)	1.8 S; riv E	822	15h	
Flying Cloud (Minneapolis)	13.8 SW; riv S	900	28 S1	80 oct. Poles SE, SW.
Gervais (Toft)	1.2 NE; hwy S	800	27 S2	80 oct.
Grand Rapids	1.5 SSE; lake NE	1293	22 S2	80 oct.
Hector	0.7 S; RR N	1100	25 S1	80 oct. Pole line W, NW, SW.
→ Heywood Gull Lake (Nisswa)	1.7 SSW; lake S	1200	26 S1	80,91 oct.Trees,poles surround fld.
(P) Hibbing	4.5 SE; lake NNW	1367	40h S6	80 oct.
Kenyon	0.8 S; RR E	1240	20 S1	80 oct. Pole line N, NE.
Lake City (Frontenac))	0.5 SE; RR N	775	44 R1 L3 S6	80 oct.
Le Sueur	1.1 S; riv W	900	20 S1	80 oct. Pole line SSW. Rolling.
Litchfield	1.2 NE; RR S	1140	24 S1	Ltd 80 oct. Trees W.
Littleford	1.8 WNW; riv E	1153	19 S1	80 oct. Pole line S.
Mankato	1.7 SE; hwy W	996	33 L1 S6	80 oct. Pwr line E, NE.
(P) Monticello	1.3 NNE; road S	940	50 S6	80 oct.
New Ulm	1.8 W; RR, hwy N	1000	32 S1	80 oct. Pole line N.
Northport (White Bear Lake)	3.2 E; hwy N	1000	23 S6	80 oct.
Osseo	2 NE	875	30	Data not verified.
(P) Otis Lodge (Grand Rapids)	7.5 SW; lake S	1293	30 S1	80 oct. Pole line E.
Pleasant Corner (Dodge Center)	2 ESE; RR N, W	1050	16 S1	80 oct. Poles S, SE; trees SW.
Princeton	1 W; RR E		20 S1	80 oct. Data not verified.
Robbinsdale	0.8 NW; RR E	879	17 S6	80 oct.
ROCHESTER	1.7 SSE; RR W	1040	43h R1 L4 S6	80, 91 oct. Pole line E, N.
St. Peter	2.4 NNW; riv E	900	23	Pole line S.
Sells Flying Field (Mayer) (NC)	0.4 SSE	750	12	
Taylor Falls	1.5 W; RR S	950	23 S4	80 oct. No sto.
University of Minnesota (New Brighton)	3.8 N; hwy W	909	34 S6	80 oct. Trees E.
Victory (Minneapolis)	9 N; riv E	860	33 S6	80 oct.
Virginia	2 WSW; bet RRs	1429	35 S2	73 oct. Poles N
Wasecа	0.5 S; RR NW	1150	39 S1	80 oct.Pole line N,W,E.
(P) Whitney Memorial (St. Cloud)	1.5 NNW; riv NW	1034	32 L3 S6	80 oct.
WILLIAMSON-JOHNSON (Duluth)	6.5 NNW; hwy S	1428	57h R1 L1 S6	80, 91 oct. ARPT OF ENTRY.
Winona	4.5 WNW; bet RRs	670	19 L3 S1	80 oct.
(A,N) WOLD CHAMBERLAIN (Minneapolis)	6.5 SSE; hwy S	834	59h R2 L4 S6	87-100 oct. JP-1. Rdo rec required.
Wyman (Aitkin)	1.3 N; riv S	1200	8	Poles W.
St. Paul (Minn.)	1.5 SE; riv E	704	55h L4	

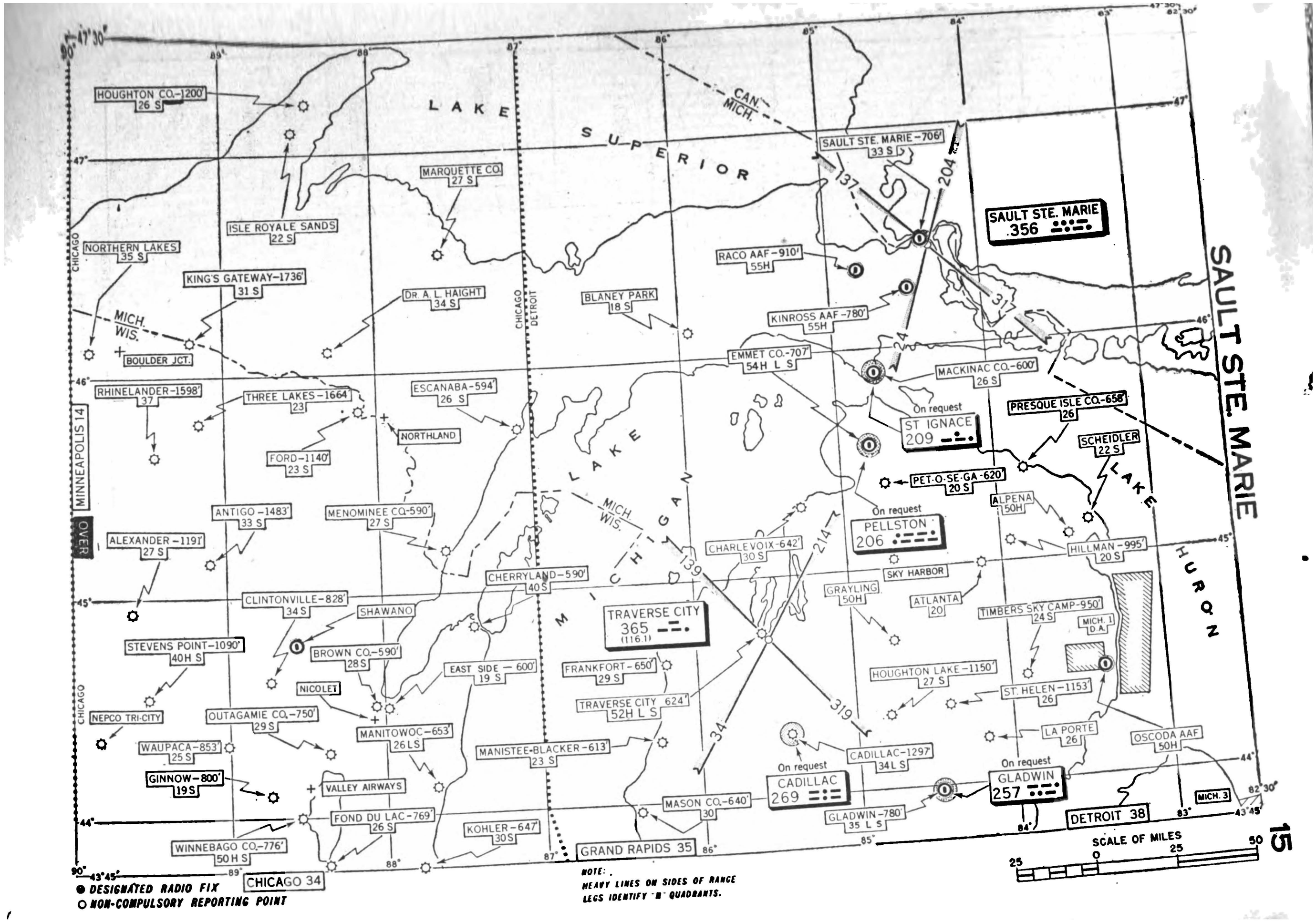
WISCONSIN

Amery	3.4 NNW; hwy N	1100	26 S1	80 oct. Pole line SE.
Arrowhead (Rice Lake)	1.3 SE; lake SE	1147	24 S4	80 oct. Trees SE. Data not verified.
Ashland	2.5 SSE; RR E	700	22 S3	80 oct. Hi-lines NE, SW.
Boyceville	0.5 SSW; hwy N	948	24 S2	80 oct. Obsts surround fld.
Boyd's Mason Lake (Fifield)	13 WSW; lake NW	1200	26	
Chetek	1.5 SE; RR S	1050	22 S1	80 oct. Trees N, SE, NW; pole S.
Chippewa Falls	2 S; RR NW	910	26 S2	80 oct. Pole line W, NW.
Colby-Abbotsford (Colby)	1.2 NNW; RR E	1400	19 S1	80 oct.
Dallas	0.7 SSE; RR W	1100	22 S1	80 oct. Pole line S.
Eau Claire	1.5 SSE; riv NW	884	40 S6	80 oct. Obsts surround fld.
(P) Eau Claire Municipal	3.5 NNE; riv NW	885	28	
Hayward	2 NE; RR NW	1200	30 S1	80 oct.
Hudson Flying Service	3.8 E; hwy N, W	850	15	Pwr line N, W.
Jackson County (Black River Falls)	2 E; RR W	855	25 S1	80 oct.
Marshfield	2.3 SSW; hwy W	1253	20 S2	80 oct.
Neillsville	5.7 W; hwy SW	1000	21 S1	80 oct. Trees around fld.
Phillips	1.2 N; riv S	1140	30 S2	80,91 oct. Pole line W, S.
Pines (Bloomer)	0.9 E; RR W	1050	16 S1	80 oct. Poles S, W.
Price Lake (Phillips)	12.5 WNW	1140	22 S1	80 oct. Data not verified.
Rice Lake	3.5 NNE; RR W	1150	26 S1	80 oct. Poles surround fld.
Richard Bong (Superior)	2.3 SW; RR E	674	33 S4	80 oct. Pole line SE. 353' twr NW.
Rusk County (Ladysmith)	2.8 SE; RR SW	1150	11 S1	80 oct.
Schlosser (Durand)	2.4 NNW; riv W	800	32 S1	80 oct.
Spooner	5 N	1072	20 S1	80 oct. Data not verified.
Veterans (Menomonie)	0.4 W; riv W	900	28	
Taylor County (Medford)(Misc.)	2 SE	400	19 S2	80 oct. Pole line N; bldg W, NE.

A-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page (XIV)) (NC)-Not charted. → NEW OR REVISED DATA

MINNEAPOLIS





● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

RADIO

MICHIGAN

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CADILLAC	269 (KK)	MHT	(4)
GLADWIN	257 (GU)	MHT	(4)
PELLSTON(Emmet County)	206 (PJ)	MHT	(4) (6-22)
ST. IGNACE (Mackinac Co.)	209 (EQ)	MHT	(4)
SAULT STE. MARIE	356 (VC)	SBMRAZ-DT(317°,2.3)	(4)
TRAVERSE CITY	365(TG X)116.1	SBMRAZ-VDT;319°,2.3	(4):116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alger County (Munising)	4 SSE; hwy E	850	24	Twr N; woods all sides.
Alpena	6.5 WNW; RR S	685	50h	
Amasa (NC)	4 NW	1560	14	Not maintained.
Atlanta	0.8 ESE	875	20	Trees N, NW, W.
Baldwin (NC)	1.3 SSE; RR W	835	25	
Beaver Island(St.James)	4.2 SSW	620	35	(NC)
(P) Bellaire (NC)	1 NE; RR W,S	614	30	Poles SE; trees surround fld.
Big Lake (NC)	7.3 SW Baraga	1100	20	Trees on all sides.
Blaney Park	0.5 NW; lake N	850	18 S1	80,100 oct.
(P) Cadillac, 23, TL-VC	2.5 NW; RR E	1297	34 R1 L3 S4	80 oct.
Charlevoix	0.8 SW;lake NW	642	30 S1	80 oct. Poles W, NW, E.
Doherty (Clare)(NC)	1 NE	840	21	Poles S;NE cor. rough.
D.A.R. (Rexton) (NC)	1.9 WSW; RR N	900	22	Poles N.
(P) Dr. A. L. Haight (Crystal Falls)	1.3 ENE;lake E	1390	34 S4	80 oct. Trees, bldgs W.
East Jordan (NC)	1.9 SSE; riv W	640	26	Trees E, W.
→ (P) Emmet County (Pellston)	0.6 NW; RR E	707	54h R1 L3 S1	80,91 oct. Bcn on req.
Escanaba	2 SSW; hwy E	594	26 S4	73,80 oct.Trees E.
Ford (Detroit)	8.8 SW; RR N	600	37h L5 S6	80,91 oct. No svcg Sun. ARPT OF ENTRY.
Frankfort	1.9 ESE;lake W	650	29 S1	73,80 oct. Sur by hills.
(P) Gladwin	0.5 SSE; riv W	780	35 R1 L3 S1	80 oct.Poles NW.
Grayling	1.3 NW; RR W	1152	50h	
Harrison (NC)	2.3 NNW; hwy E	1100	22	Surrounded by trees.
Hillman	2.8 NW	995	20 S1	Ltd 73 oct. Woods all sides.
Houghton County(Calumet)	2 SE; RR W	1200	26 S4	80 oct. Twrs, poles W.
Houghton Lake (Houghton Heights)	1.2 WNW;lk NNE	1150	27 S2	73,80 oct. Radio twr W,N, lgtd.
Isle Royale Sands(Houghton)	2 ESE; lake SW	605	22 S4	80 oct.
Ishpeming-Dexter (NC)	7 W; RR N, S	1570	25	Poles N.
Kalkaska (NC)	0.5 WNW; RR E	1020	26	
(A) Kinross (A)	2.5 SE	780	55h	INACTIVE.
La Porte (West Branch)	6 SE; RR W	890	26	Pole line NW; trees NE, SW.
Luce County (Newberry)	4.1 SE; hwy S	872	20h	(NC) Poles S; trees W.
Mackinac Co.(St. Ignace)	2 NNW; hwy E	600	26 R1 S2	80,91 oct.
Mackinaw City (NC)	5 S; RR W	700	22	
Manistee-Blacker	4 ENE; riv S	613	23 S2	73 oct.
Marenisco (NC)	1.6 E; hwy N	1551	20	Trees surround fld.
Marquette County	7.9 W; hwy S	1412	27 S2	80 oct. Poles W.
Mason County (Ludington)	1.7 ENE	640	30	Poles S.
Menominee County	5 NNE; bay E	590	27 S1	80 oct. Trees surround fld.
Mio (NC)	1.6 N; hwy W	1050	26	
Northland (Norway)	2 W	1060	33 S3	80,100 oct. Pole line N.
Norway Township(Loretto)	2.4 S; lake N	860	21	Trees on side strips. (NC)
(A) Oscoda AAF (A)	3.5 NW; lake E	605	50h	INACTIVE.
Otsego County (Gaylord)	1 SW; RR E	1384	30	Pole line NE (NC)
Pet-O-Se-Ga (Wildwood)	1.8 NW;lake NW	620	20 S2	80 oct
Roashke's (Harbor Beach)	2.5 W; rd S	670	18	(NC)
Au Gres (NC)	0.9 NNW;hwy S	590		Poles NE,SW.
Calvin Campbell Mun. (NC)	0.8 SE;RR,hwy W	602	20	Pole line N,trees E,W,S(Indian Riv

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page X(v))(NC)-Not charted. → NEW OR REVISED DATA

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Presque Isle (Rogers City)	0.7 SSE; hwy E	658	26 S2	No fuel
Prickett (Sidnaw)	0.5 N; RR SE	1300	18	Use caution.
(A) Raco AAF (A)	4 WSW; RR N	910	55h	INACTIVE.
Roscommon (NC)	2.5 SE;RR NE	1100	42	Pole line S.
St. Helens	0.9 SE; RR NE	1153	26	
(P) Sault Ste. Marie	1 SSW; hwy E	706	36 R1 L3 S4	80,91 oct. All lgts prior req. ARPT OF ENTRY.
Scheidler (Alpena)	6.3 N; hwy NW	590	22 S1	80 oct.Pole lines N,SW.
(P) Schoolcraft County (Manistique)(NC)	3.3 ENE;lake S	678	31	Approaches 5:1
Steuben (Manistique)(NC)	20 NW	850	18	Woods all sides.
Timbers Sky Camp (South Branch)	0.2 NE; riv E	950	24 S1	80 oct.
(P) Traverse City	2.1 SE; RR NE	624	52h R1 L5 S6	80,91 oct.No sto.
Watersmeet (NC)	1.5 NNE;RR SSE	1581	24	Poles SE.
Sky Harbor (Gaylord)(NC)	1 WNW;RR N	1355	26 S1	73,80 oct.Pole line S.
Onaway (NC)	0.6 NNE;RR S	770	24	Trees SW,NW,SE.
Petosky-Harbor Spr(Petosky)	4.5 NE;hwy E,N	620	20	Pole line,ridges E,N. (NC)
Roscommon Co.(Prudenville)	4.5 N;riv N	1150	24	Trees sur fld (NC)

WISCONSIN

Alexander (Wausau)	2.5 S; riv SW	1191	27 L4 S4	73,80 oct. Lgts prior req.
(P) Antigo	2 ENE; hwy N	1483	33 S2	80,91 oct.
Arbor-Vitae (NC)	2.9 W; RR S	1600	22	Pole line E, N.
Brown County(Green Bay)	2.2 WSW; hwy SE	590	28 S6	80,91 oct. Pole line NE,SE,S.
(P) Cherryland (Sturgeon Bay)	2 WNW; bay E	590	40 S2	80 oct. Pole line W, S.
Clintonville	1 ESE; RR SW	828	34 S6	80,91 oct.No sto,Pole line SW.
Eagle River (NC)	1.3 NW; riv NW	1675	32	
Fon du Lac	2.6 ENE;lk NNW	769	26 S2	80 oct. 50' hi-line N.
Ginnow (Omro)	3 N; RR E	800	19 S2	80 oct. Trees SW.
King's Gateway (Land O'Lakes)	0.5 SSE; RR W	1736	31 S2	80 oct. Twr NE; pole line NW.
(P) Kohler	1 N; hwy S	647	30 L4 S6	80 oct. Lgts prior req. Obst sur fld.
Manitowoc	1.6 NNW; RR W	653	26 L3 S4	80 oct. No bcn. Obsts sur fld.
(P) Nepco Tri City(Wisconsin Rapids)	2.5 SSW; riv W	950	36 L2 S2	80 oct. Lgts on req.
Northern Lakes(Manitowish)	6.8 E; hwy N	1600	35 S1	80 oct. Trees E, W.
Oconto Falls	2.7 ENE; RR S	600	20 S1	80 oct. Pole line N.
Outagamie Co. (Appleton)	2.2 ENE; RR S	750	29 S2	80 oct. Obsts sur fld.
Rhinelander	2 W; riv SE	1598	37 S2	80 oct. 10' bank NE.
Shawano	2.3 ENE;lake NE	813	19 S2	80,91 oct. Poles,trees sur fld.
Stevens Point	3 NE; riv SE	1090	40h S6	73,80 oct.
Three Lakes	0.5 S	1664	23	Bldgs, trees around fld.
Valley Airways (Neenah)	4 SSW; RR E	750	21 S2	80 oct Pole line E. Data unverified.
Waupaca	4 ESE;riv N, E	853	25 S1	80 oct. Trees around fld.
(P) Winnebago Co.(Oshkosh)	2 SSW; RR NE	776	50h L1 S4	80 oct.No sto,Poleline NE,N,W.Rnwys unver.
Boulder Junction	1.5 NW		30 S1	80,91 oct. Data unverified.
East Side (Green Bay)	1.8 SE;RR S	600	19 S1	80 oct.Pwr line N,NE,NW.
Merrill(NC)	1.2 NNW	1285	22	Pole line NE.
Tomahawk (NC)	0.5 WNW	1450	15	
Washington Island (NC)	0.6 NNE of Detroit Harbor	600	24	
Nicolet (De Pere)	1.5 S;RR E	620	22 S4	80 oct.Pole line E,W.Data unverified.

RADIO

MAINE

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA	221(AW)(116.1)	BMRLZ-VDT;81°,2	(4);116.1
BANGOR (Dow)	239(BB)(116.1)	SBRAZ-VDT;172°,2.1	(3);116.1
DOW (Bangor)	278(126.18)	AC (ILS)	(4);118.7,131.9,126.18
EAST CORINTH FM	(- - - -)	FM,352°,13.5	Bangor
HOULTON	272(HJ)(116.1)	BMRLZ-VDT;195°,3.1	(4);116.1
LIMESTONE FM	(-)	FM, 57°,22.3	Presque Isle
MILLINOCKET	344(MT)(116.1)	SBRAZ-VDT;292°,1.6	(4);116.1
PRESQUE ISLE	388(ZQ)	SBRAZ-DT	(4)
Presque Isle AAF	278 (126.18)	AC(ILS);189°,3.4	(4);388,365.116.1. 140.1.131.9,126.18
Presque Isle AAF	365 (RU)	SBMLZ; 9°,3.8	(4)

VERMONT

BURLINGTON	323(JQ)(116.1)	SBRAZ-VDT	(3);116.1
GRANDE ISLE FM	(- - - -)	FM, 349°,15	Burlington
HUNTINGTON FM	(- -)	FM, 151°,17	Burlington
MONTPELIER (Barre-Montpelier)	257(UV)(116.1)	BMRLZ-VDT;230°,2.8	(4);116.1
VERGENNES FM	(- - -)	FM,210°, 25.4	Burlington
→ Burlington Airport	278	C,151°,2.8	(4)

INSTRUMENT LANDING SYSTEMS (Localiser and G.P, in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
DOW, ME.	109.9		150° Mag.	IDM	(.06)	MM	(.89)	OM	(4.80)
						MMK		OMK	
PRESQUE ISLE AAF, ME.	109.9		10° Mag.	IDM	(.05)	MM	(1.00)	OM	(5.00)
						MMK 201	(1.00)	OMK 219	(5.00)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
AUGUSTA	1.5 WNW; hwy S	354	34h R1 L5 S6	80,91 oct.Fld lgts prior req.
Andover (NC)	2.5 S; hwy E	675	14	1125' hill, pole E.
Bar Harbor	9 NW; hwy W	87	45h S6	80 oct.
Bethel	1.6 NW; RR E	660	20 S1	80 oct.
Belfast	1 SW; hwy E	160	40h S4	80 oct. No sto.
Bishop (LaGrange)	0.8 N; RR W	360	20	WSW,ENE blocked.
Caribou	1 NW; hwy E	623	35h S6	80 oct.No sto.Bldg E.ARPT OF ENTRY
Deblois Flight Strip	2 SE; riv W,N	219	40h	
(P) Dexter	3 ESE; rd W,S	485	30h S2	80 oct.
Doanes (Brewer)	1.6 S; RR W	100	15 S5	80 oct. Poles NNE; trees SE.
(A) DOW (Bangor)(A)	2 W; RR S	160	70h R3 L6	INACTIVE.
Eastport	1.5 WNW;hwy NE	70	28h S1	80 oct. Pole line NW.
Fryeburg Airpark	1.3 E; RR S	400	20 S2	80 oct. Pole line S.
Greenlaw (Auburn)	1.8 W; hwy S	238	14 S6	80 oct. Bldg S.
Greenville	2 ENE	1750	30h L3 S1	80 oct.
Guertin (Lewiston)	1 NE	220	12 S2	87 oct. Trees,poles SSW.
HOULTON	2.5 E	474	57h R1	
Flying Service	2.2 N; RR SW	380	14 S1	80 oct. Trees NNE.
LEWISTOWN-AUBURN(Auburn)	4.5 SW; RR W	290	45h L5 S4	80,91 oct.
Maheux (Minot)	3.5 WNW;hwy NE	720	18 S6	80 oct. Trees SSE.
Millinocket	0.5 SE; hwy W	404	50h R1 L5 S1	91 oct. Fld lgts prior req.
Newport	1.5 ESE; hwy N	280	21 S1	Ltd 80 oct. Pole line N.
Norridgewock	3.7 W;riv NE,W	270	40h	Trees ENE.
Norway	1 N; RR S	387	18 S1	80 oct. Pole line SE.
Old Town	1.8 NNW;riv N	109	40h L3 S5	80 oct.
Pittsfield	0.7 SSE;hwy E	190	40h S6	80 oct. Sand pile, bldg E.
Pittston	1.8 ENE; RR W	140	18	NW,SW,S blocked.
(A) PRESQUE ISLE AAF (A)	1.5 WNW; RR N	517	68h R3 L6 S6	91,100 oct. No sto.ARPT OF ENTRY
Princeton	1.5 SSE; hwyNE	250	40h	
Rangeley	1.6 NNW;hwy S	1810	15	
Raymond's (Phillips)	0.8 S; riv E	556	15 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV)(NC)-Not charted. → NEW OR REVISED DATA

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Rockland	3 SSE; rd NE	49	45h L5 S6	80,91 oct. No sto.
Rollins (Turner)	2.5 NNW; rd E	335	20 S6	80 oct.
Roy L.Fernald(Winterport)	3 WNW; hwy S	182	40h L3 S1	80 oct. Lgts prior req.
Tomlinson (Skowhegan)	1 NNE; riv S	240	28 S6	80 oct. Poles S, NW.
Waterville	1.8 SW; riv E	303	40h L5 S6	80,91 oct.Fld lgts prior req.
Weston (Madison)(NC)	1 N; riv W	300	19	Poles WSW.

NEW HAMPSHIRE

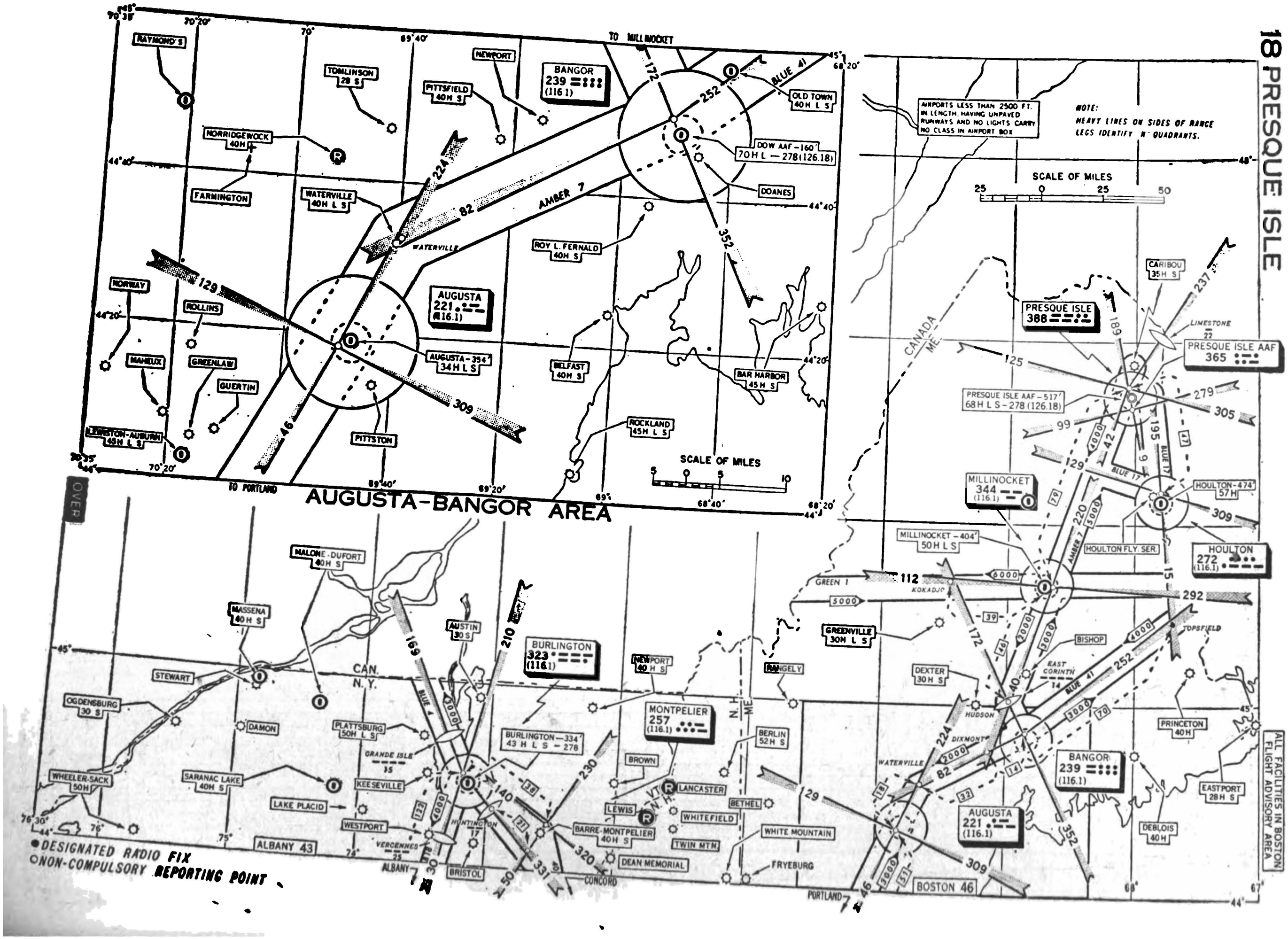
Berlin	7.5 N; riv W	1140	52h S3	80,91 oct.No sto.
Dean Memorial(Haverhill)	4.1 NE; RR W	570	15 S1	80 oct. Trees N, NW.
Lancaster Airpark	0.3 N; riv W		20 S1	80 oct. Data not verified
Lewis (Littleton)	2.5 E; RR S	900	18 S6	80 oct. No sto.
Twin Mountain	0.8 SW; RR N	1430	18 S1	80 oct.
White Mtn. (North Conway)	1.9 SSE	540	23 S4	80 oct. Trees W, NW.
→ Whitefield	3 ESE; RR N	1030	24 S1	73 oct.

NEW YORK

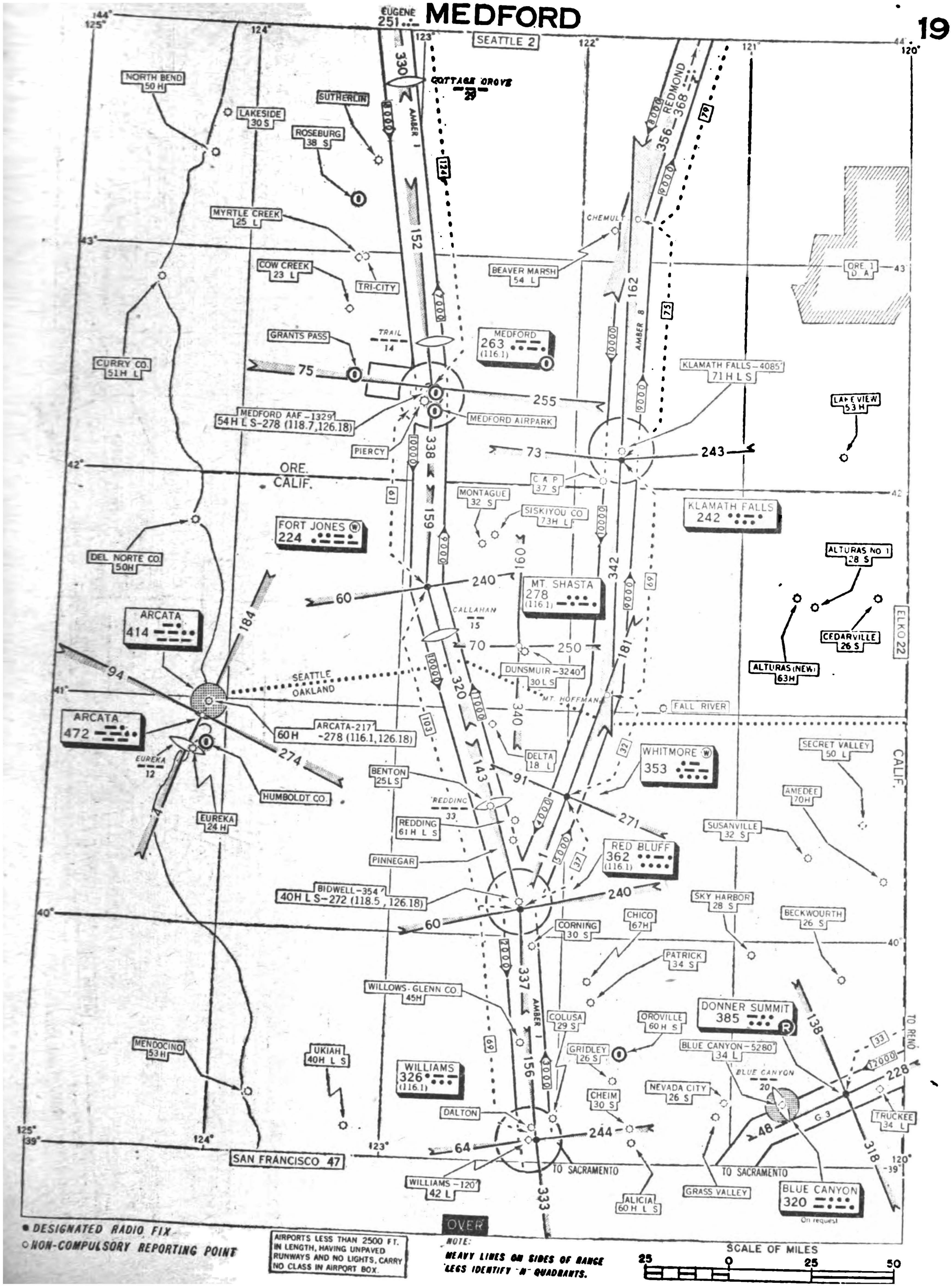
	Bradley (Watertown) (NC)	2.2 N; RR E,W	435	18	Rough. Pole line W, SW.
	Damon-(Potsdam)	1.5 E;riv,RR W	460	19 S1	80 oct. Pole line W.
	Keeseville	1.4 S; riv W	490	20	Pole W.
	Lake Placid	2 SE; RR NW	1750	21 S1	80 oct.
(P)	Malone-Dufort	2 W; RR N	790	40h S1	80 oct. ARPT OF ENTRY.
	Marcy (Keene)(NC)	2.5 S; hwy E	1000	18	Mtn N, S.
(P)	Massena	2.2 E; riv SE	209	40h L1 S6	80 oct.Bcn on req.Trees WSW.ARPT OF ENTRY
	Ogdensburg	1.5 SE; RR W	285	30 S6	80 oct.ARPT OF ENTRY
(P)	Plattsburg, mun	3.4 WSW;riv W	375	50h L5 S1	80,91 oct.
(P)	Saranac Lake	5.3 NW; RR NW	1655	40 L1 S1	80 oct. Bcn on prior req.
	Stewart (Massena)	2.1 SE; RR NE	210	20	
	Tupper Lake (NC)	1 E; RR NW	1680	8	Use strips only.
	Westport	2 S; RR W	285	22 S2	80 oct.
	Wheeler-Sack(Great Bend)	1 NNW; riv S	680	50h	

VERMONT

Austin (Swanton)	1.7 NE; RR W	235	30 S6	80 oct. No sto. ARPT OF ENTRY.
BARRE-MONTPELIER(Berlin)	0.8 SE	1149	40h R1 L5 S2	80,91 oct.
Bristol	0.7 W; riv SE	570	22 S6	80 oct. 1680' mtn SE.
Brown (St. Johnsbury)	5.2 N; RR E	807	23 S2	80 oct. Hills N, SW.
BURLINGTON	3 E; lake N	334	43h R2 L5 S6	80,91 oct. ARPT OF ENTRY.
Newport	3 SSW; RR E	930	40h L2 S1	Ltd 80 oct. All lgts prior req.


AUGUSTA-BANGOR AREA
TO PORTLAND
TO MILLINOCKET
RAYMOND 5
TOMLINSON 28 S
NEWPORT
PITTSFIELD 40H S
BANGOR 239 (116.1)
OLD TOWN 40H L S
BLUE 41
NORRIDGEWOCK 40H
FARMINGTON
WATERVILLE 40H L S
DOW AAF – 160' 70H L – 278 (126.18)
DOANES
AMBER 7
ROY L. FERNALD 40H S
NORWAY
ROLLINS
AUGUSTA 221 (116.1)
AUGUSTA – 354' 34H L S
MAHEUX
GREENLAW
GUERTIN
BELFAST 40H S
BAR HARBOR 45H S
LEWISTON-AUBURN 45H L S
PITTSTON
ROCKLAND 45H L S
SCALE OF MILES
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS IN AIRPORT BOX
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'N' QUADRANTS.
SCALE OF MILES
CARIBOU 35H S
PRESQUE ISLE 388
LIMESTONE
PRESQUE ISLE AAF 365
CANADA
ME
PRESQUE ISLE AAF – 517' 68H L S – 278 (126.18)
MILLINOCKET 344 (116.1)
HOULTON – 474 57H
BLUE 17
HOULTON FLY. SER.
HOULTON 272 (116.1)
MILLINOCKET – 404' 50H L S
AMBER 7
GREEN 1
KOKADJO
GREENVILLE 30H L S
BISHOP
DEXTER 30H S
EAST CORINTH
TOPSFIELD
HUDSON
PRINCETON 40H
DIXMONT
WATERVILLE
BANGOR 239 (116.1)
EASTPORT 28H S
AUGUSTA 221 (116.1)
DEBLOIS 40H
BOSTON 46
PORTLAND
ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
OVER
MALONE-DUFORT 40H S
MASSENA 40H S
AUSTIN 30 S
BURLINGTON 323 (116.1)
NEWPORT 40H S
RANGELY
MONTPELIER 257 (116.1)
BERLIN 52H S
BURLINGTON – 334' 43 H L S – 278
BROWN
LANCASTER
LEWIS
WHITEFIELD
BETHEL
BARRE-MONTPELIER 40H S
TWIN MTN
WHITE MOUNTAIN
DEAN MEMORIAL
FRYEBURG
CONCORD
BRISTOL
HUNTINGTON
VERGENNES
ALBANY
ALBANY 43
STEWART
OGDENSBURG 30 S
DAMON
PLATTSBURG 50H L S
GRANDE ISLE
WHEELER-SACK 50H
SARANAC LAKE 40H S
KEESEVILLE
LAKE PLACID
WESTPORT
CAN. N.Y.
N.H.
VT
ME
●DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT

MEDFORD


EUGENE
251
SEATTLE 2
144°
125°
124°
123°
122°
121°
120°
44°
43°
42°
41°
40°
39°
NORTH BEND
50 H
LAKESIDE
30 S
SUTHERLIN
ROSEBURG
38 S
COTTAGE GROVE
29
330
AMBER 1
9000
121
MYRTLE CREEK
25 L
COW CREEK
23 L
TRI-CITY
152
10000
CHEMULT
BEAVER MARSH
54 L
356
368
REDMOND
9000
70
ORE. 1
D A
43
162
AMBER 8
10000
75
GRANTS PASS
TRAIL
14
MEDFORD
263
(116.1)
CURRY CO.
51H L
75
255
MEDFORD AAF – 1329
54H L S-278 (118.7,126.18)
MEDFORD AIRPARK
PIERCY
10000
338
73
243
KLAMATH FALLS – 4085'
71H L S
LAKE VIEW
53 H
ORE.
CALIF.
61
C A P
37 S
MONTAGUE
32 S
SISKIYOU CO
73H L
10000
KLAMATH FALLS
242
FORT JONES
224
DEL NORTE CO.
50H
159
9000
160
240
60
MT. SHASTA
278
(116.1)
342
9000
69
ALTURAS NO 1
28 S
CEDARVILLE
26 S
ALTURAS (NEW)
63H
ELKO 22
CALLAHAN
15
ARCATA
414
184
70
250
DUNSMUIR – 3240'
30 L S
MT. HOFFMAN
10000
320
340
181
SEATTLE
OAKLAND
94
FALL RIVER
ARCATA
472
ARCATA-217'
60 H -278 (116.1,126.18)
103
32
WHITMORE
353
SECRET VALLEY
50 L
CALIF.
EUREKA
12
274
DELTA
18 L
BENTON
25L S
143
91
AMEDEE
70H
HUMBOLDT CO.
REDDING
33
REDDING
61H L S
EUREKA
24 H
1000
271
SUSANVILLE
32 S
PINNEGAR
5000
37
RED BLUFF
362
(116.1)
BIDWELL-354'
40H L S-272 (118.5, 126.18)
240
SKY HARBOR
28 S
BECKWOURTH
26 S
60
CHICO
67H
CORNING
30 S
PATRICK
34 S
2000
337
AMBER 1
WILLOWS-GLENN CO.
45H
COLUSA
29 S
OROVILLE
60 H S
DONNER SUMMIT
385
R
138
MENDOCINO
53H
UKIAH
40H L S
WILLIAMS
326
(116.1)
69
GRIDLEY
26 S
BLUE CANYON – 5280'
34 L
33
12000
TO RENO
228
BLUE CANYON
20
CHEIM
30 S
NEVADA CITY
26 S
G 3
48
TRUCKEE
34 L
DALTON
156
3000
244
64
318
SAN FRANCISCO 47
TO SACRAMENTO
TO SACRAMENTO
WILLIAMS – 120'
42 L
333
ALICIA
60 H L S
GRASS VALLEY
BLUE CANYON
320
On request
OVER
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
SCALE OF MILES
25 0 25 50

RADIO

CALIFORNIA

LOCATION	FREQ.,IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCATA (UAL)	472 (NZM)	MRL	(3)
Arcata Airport	278 (116.1)	CI;40°, 3	(3); 116.1,126.18 (8-17)
→ Arcata (H fac)(UAL)	414(NZO)(126.18	H;310°,.15	(4) Z mrkr 200' fr SE end Rnwy 31
→ BIDWELL (Red Bluff)	272 (118.5) (126.18)	C	(4);126.18,131.9
BLUE CANYON	320 (BC)	MHT	(4)
BLUE CANYON FM	(- - -)	FM, 228°,19.5	Donner Summit
CALLAHAN FM	(- -)	FM, 140°, 15.1	Ft. Jones
DONNER SUMMIT	385 (DS)	BMRL-DT	(4)
EUREKA FM	(- - -)	FM, 184°,11.7	Arcata.
FORT JONES	224 (FJ)	SRAWZ	
MT. SHASTA	278 (SC)(116.1)	BMLZ-VDT, 116°,2.2	(4); 116.1
RED BLUFF (Bidwell)	362(FH)(116.1)	SBRAZ-VDT,323°,2.5	(3); 116.1
REDDING FM	(- - - -)	FM, 323°,33.2	Red Bluff.
WHITMORE	353 (AWH)	MRLWZ	
WILLIAMS (Int.)	326(WS)(116.1)	SBMRAZ-VDT,244°,2.2	(4); 116.1

OREGON

→ COTTAGE GROVE FM	(- - -)	FM, 150°, 29	Eugene
KLAMATH FALLS	242 (FS)	SBRAZ-DT,342°,2.7	(4)
MEDFORD	263(MF)(116.1)	SBRAZ-VDT	(4); 116.1
Medford AAF	278 (126.18) (118.7)	AC; 158°, 2.4	(4);142.74,131.9,126.18,118.7
TRAIL FM	(- - - -)	FM, 332°, 14	Medford

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
(P) Alicia (Marysville)	3.2 SSE;RR W,E	63	60h L5 S6	80,91 oct;100 oct on req.
(P) Alturas (new)	6.8 WNW;riv S	5034	63h	
" #1	1 W;RR S	4391	28 S6	80 oct. →
Amedee Flight Strip	4 SE;RR N	4007	70h	
Arcata	7.6 NNW	217	60h R2	
Ash Creek,USPS (McCloud)	11.2 ENE	3850	30	Clsd Dec-May.Trees SE,NW (NC)
Beckwourth	0.8 ENE;RR S	4900	26 S6	73 oct.
→ Benton Airpark(Redding)	1.1 WSW;riv E	719	25 L3 S4	80,91 oct.
→ BIDWELL (RED BLUFF)	1.7 SSW;RR E	354	40h R2 L5 S4	80,91,100 oct.
★ Blue Canyon Int,13,SF-SL	1.1NNE;RR S,E	5280	34 R1 L3	Obsts N,E.
Cedarville	0.6 S;lake E	4260	26 S2	80 oct.Pwr line E.
Cheim (Marysville)	1.5 NE;hwy S	67	30 S6	80,91 oct.No sto.Levee N,NE.
Chester, USPS (NC)	1.5 SSW;RR N	4525	31	18' pole line W.
Chico	5 N;rd E	250	67h	
Colusa	1.2 SW;RR W	47	29 S4	80 oct.Pole line NNW
→ Corning	1.3 NE;RR W	300	30 L1 S2	80 oct.
→ Delton Com. (Williams)	1 ENE;RR SW	80	30 S2	80 oct.Pwr line S.
(P) Del Norte Co. (Crescent City)	2.5 NW	57	50h	
★ Delta Int,22,SF-SA	1SW;RR,hwy N	1320	18 L3	800-1000' mtns E,W
→ Dunsmuir ,25B,SF-SA	4.5 N;RR W	3240	30 R1 L3 S2	80,91 oct.Poles E,N, lgtd.
Eureka	2 W; Bay E	20	24h	
Fall River Mills	1 N;riv E	3300	26	
Fort Jones (NC)	1.5 W;riv SW	2745	30	Pole line NW
Gasquet (Crescent City)	13 ENE;hwy S	390	25	Hazardous-bad appch.USFS (NC)
Grass Valley	0.8 W;hwy N	2600	18 S1	Ltd 80 oct.Trees sur fld.Pole line NE.
Gravelly Valley, USFS (Upper Lake)(NC)	20 N;lake S	2000	49	Road crosses NE/SW strip.
Gridley	0.7 ENE;RR W	97	26 S6	80,91 oct. Pole line N,S.
Hayfork, USFS (NC)	1.2 E;rd N	2350	23	Pole line W,mts E.
→ Humboldt County (Eureka)	3.4 ENE;RR SW	10	19 S4	80 oct.Poles NW.
Mendocino	4.9 SSE	572	53h	
→ Montague	1 W;RR N	2520	32 L1 S4	80,91 oct.
Nevada City	1.5 NW;rd S	3060	26 S4	80 oct.
Orleans, USFS (NC)	0.5 W;hwy S	493	14	Pole lines NE.
Oroville	3 SW;riv E	199	60h L3 S1	80,91 oct.Port.rnwy lgts prior req.
Patrick (Chico)	2 SSE;RR E	189	34 S6	80,91 oct. Poles N.
Pinnegar (Anderson)	1 S;canal E	435	23 S1	73 oct.
Ranchaero(Chico)	2.2 WSW;riv W	170	22 S4	80,91 oct. hwy NE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiv) (NC)-Not charted. → NEW OR REVISED DATA

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
Ravendale (NC)	0.2 N;RR W	5260	18	
Redding	7.5 SE;riv S	500	61h L3 S1	
Round Valley (Covelo)(NC)	0.8 SW;hwy E	1385	30	
★ Secret Valley Int,52,	3.6 ESE Karlo	4435	50 L3	RV-ND
(P) Siskiyou Co. (Montague)	4.3 NE;RR W	2647	73h L5	
Sky Harbor (Quincy)	2.5 E;RR N	3400	28 S2	73 oct.Poles S.
Susanville	6.5 SE;hwy SW	4150	32 S6	73 oct.Pwr line N.
★ Truckee Int,16B,SF-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec-Apr.
Ukiah	1 S;RR E	612	40h L5 S4	80 oct. No sto.
Weaverville, USPS (NC)	1 SSE; hwy E	2040	22	30' poles S.
★ Williams Int,9,SF-SA	4 S;RR E	120	42 R1 L3	
Willows-Glenn Co.	1.3 WSW;RR E	130	45h L1	
Willits	1.3 ENE;RR W.	1356	20 S1	80 oct.Trees E,pole line W.

OREGON

★ Beaver Marsh Int,73,RV-ND	6.2 SSW Chemult	4630	54 L3	
Civil Air Patrol (Worden)	1 S;RR NW	4080	37 S6	80 oct.No sto.Pwr line NNE.
Grants Pass	1.6 N;RR W	1050	20 S5	73,80 oct.Poles,trees,N.
★ Cow Creek Int,37B,SF-SA	2.5 ENE Glendale	1429	23 L3	Creek S.
(P) Curry Co. (Denmark)	3.8 WSW	214	51h L5	Fld lgts prior req.
Illinois Valley Landing Fld (Cave Junction)	4.3 SSW;riv E	1350	43	Tree NNE.USFS. (NC)
Klamath Falls	4.9 SSE;RR NE	4085	71h R1 L5 S1	80,91,100 oct.
Lakeside	0.25 NE;hwy W	20	30 S4	80 oct.No sto.Pole line S.
Lakeview	3.5 SW;RR E	4728	53h	
(A,N) MEDFORD AAF	3.2 N;RR E	1329	54h R2 L5 S4	80,91,100 oct.Ltd svcg mil acft.
Medford Airpark	2.3 SE;RR W	1430	20 S6	80 oct. No storage.Pole line NE
★ Myrtle Int,39A,SF-SA	4 SW;riv,RR W	700	25 L3	Hill N.
(P) North Bend	1.2 WNW;bay NE	17	50h	
Piercy (Medford)	2.6 NW;RR E	1325	20 S4	80 oct.No storage.Poles SE.
★ Roseburg Int,41A,SF-SA	2.4 NNW;RR E	500	38 S6	80,91 oct. No storage.
Sutherlin Sky Ranch	3.8 ENE;rd E,S	575	18	
Tri-City (Riddle)	3.5 NE;RR N,W	700	19	Pole line N,S;cattle on fld.

RADIO — IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOISE (Gowen)	350 (BE)	SBRAZ-DT, 110° 2.5	(4)
EAGLE FM	(- - - -)	FM, 321°, 11.5	Boise
GOWEN (Boise)	278(126.18) (118.3)	C	(4), 140.1,131.9,126.18, 118.3
MOUNTAIN HOME FM	(- -)	FM, 110°, 41	Boise

RADIO — NEVADA

BATTLE MTN.	281(BP)(116.1)	BMRLZ-VDT, 301°, 5.5	(4), 116.1
CARLIN FM	(- - -)	FM, 230°, 19	Elko
DEETH FM	(-)	FM, 39°, 30.5	Elko
ELKO	391(EL)(116.1)	SBRAPZ-VDT, 200°, 0.8	(4), 116.1
FALLON NAAS	230 (VA)	SBRAZ-DT, 219° 2.9	(4) Not manned cont.
HUMBOLDT (Int.)	209(HD)(116.1)	BMRLZ-VDT 228°, 2.6	(4);116.1
RENO (Hubbard)	254(RP)(116.1)	SBRAZ-VDT 161, 3.3	(4), 116.1
WADSWORTH FM	(-)	FM, 48°, 27	Reno
→ HUBBARD FLD (Reno)	278	CI	(4)(Wed,Sat,Sun 6-19. other days 8-1630)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — IDAHO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bennett Flight Strip (Anderson Dam)	2.7 S,RR SW	4700	18	Pole line ENE.
Boise Airpark	1.8 WNW,RR S	2660	25 S6	73,80 oct.Trees SSE. NNW.
Bradley (Boise)	3.3 WNW,riv NE	2637	30 S6	80,91 oct.Trees SE.
Caldwell	1.3 W,RR N	2370	32 S6	80 oct.Trees NW,bldg NE.
Emmett	2.6 SW, RR NW	2300	28 S2	73 oct.
Floating Feather (Eagle)	2 E,hwy W	2635	38 S4	80 oct.Soft when wet.
Glenns Ferry	1.3 WSW,riv S	2556	34 S1	Ltd 80 oct.
(A) GOWEN (Boise)(A)	4.5 SSW	2857	77h R2	INACTIVE.
(A) Mountain Home AAF	10.7 WSW	3004	100h	INACTIVE. (A)
" Site 25,SL-PO	2 WSW	3240	48 L3	
Nyssa Arpk.(Parma)	6.1 NNW,RR W	2200	28 S4	80 oct.No sto.
Parma	0.6 SSE,RR NE	2225	23 S2	80 oct.25' poles NW.
Ritchey (Nampa)	2 E,hwy N	2535	28 L3 S6	73 oct.No bcn.Lgts prior req.

AIRPORTS — NEVADA

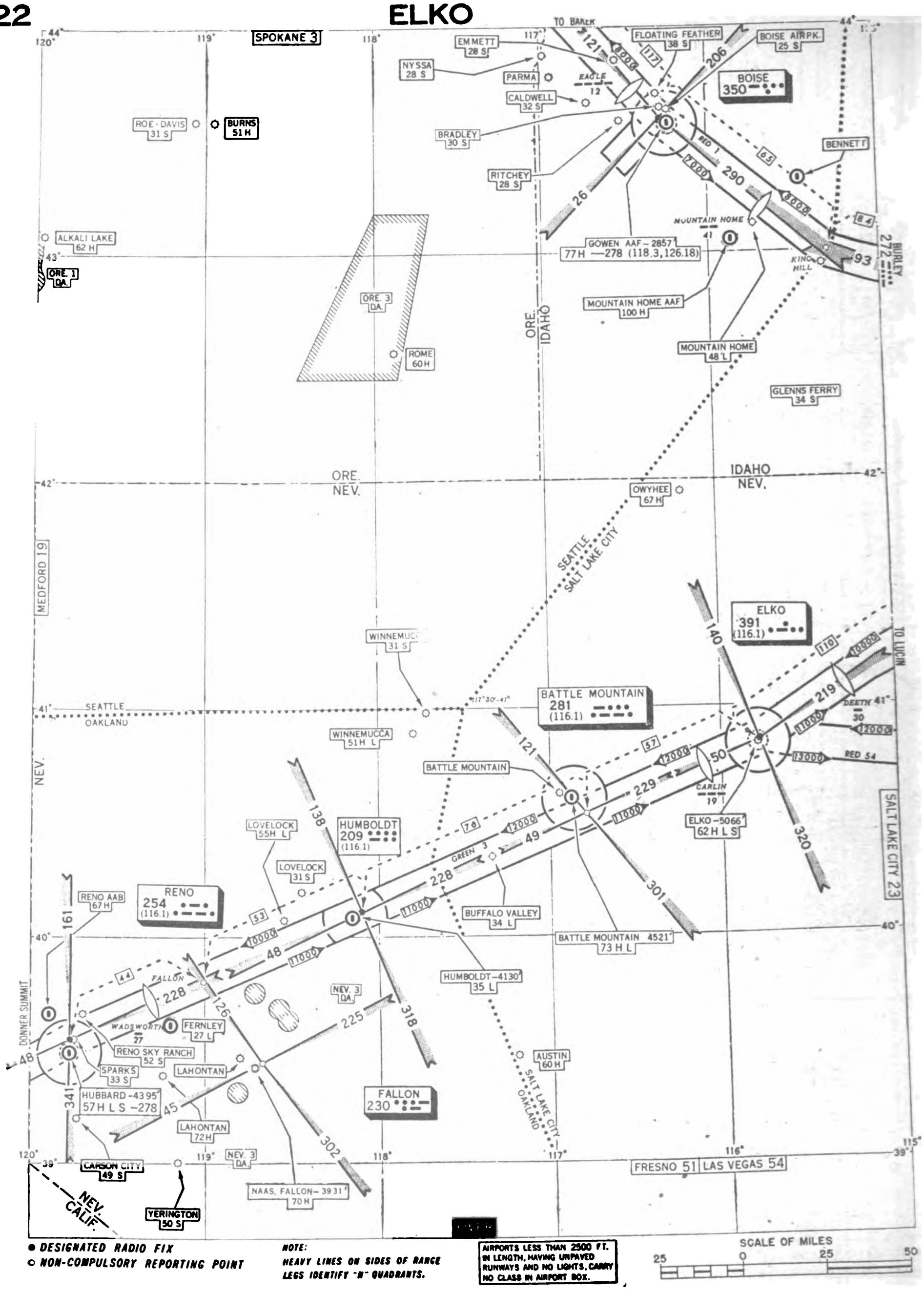
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Austin	7 WSW,riv NW	5730	60h	
Battle Mtn.	1.5 WSW,hwy N	4521	24 S2	73, 91 oct.
(P) " Flgt Strip.35. SF-SL	4 SE,RR N	4521	73h R1 L3	
★ Buffalo Valley Int, 32, SF-SL	15 W Bailey	4664	34 L2	
Carson City	3.1 NE,hwy W	4684	49 S6	80 oct.Mts N,hill W.
ELKO	1.8 W,RR S	5066	62h R1 L5 S4	73, 91 oct.
★ Fernley Int,22,SF-SL	3.3 E,hwy NW	4156	27 L2	
(N) Fallon NAAS (N)	6 SE,hwy S	3931	70h R1 L5	
HUBBARD (Reno)	3.4 SE,RR N	4395	57h R1 L5 S4	80,91 oct. Fld lgts
★ Humboldt Int,28B, SF-SL	14 S Rochester	4131	35 R1 L3	prior req.
Lahontan (Fallon)	1.4 SSW,hwy N	4000	24 S4	80 oct.Poles ENE,WSW
" Flgt Strip	15.5 S,hwy N	4279	72h	(Fernley)
Lovelock	1.5 ENE,riv W	3986	31 S2	80 oct.
(P) " Site 26,SF-SL	9 SSW,RR NW	3906	55h L5	
Orovada (NC)	1.2 W,hwy E	4300	32	
Owyhee Flight Stp.	4.8 W	5379	67h	
(A) Reno AAB (A)	10.5 NNW,RR SW	5018	76h	INACTIVE,Mts sur fld
Reno Sky Ranch (Sparks)	8.5 NNE,hwy W	4528	52 S4	73,80,91 oct. Flare pots on prior req.
Sparks Airpark	0.6 N,RR S	4400	33 S6	80,91 oct.Poleline W.
Winnemucca	1 NE,RR NW	4303	31 S4	73 oct.
(P) " Site 32A,SF-SL	6 SW,RR N	4303	51h L5	
Yerington	1.2 N,RR W	4483	50 S1	73 oct.

AIRPORTS — OREGON

Alkali Lake Flgt Strip	7.5 N	4313	62h	
Burns	5.1 E	4140	51h L5	Contact lgts prior req
Roe Davis (Burns)	0.6 WSW,RR SE	4165	31 S6	80 oct.
Rome Flgt Strip	26.6 SW,hwy E	4050	60h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV)(NC)-Not charted → NEW OR REVISED DATA

ELKO



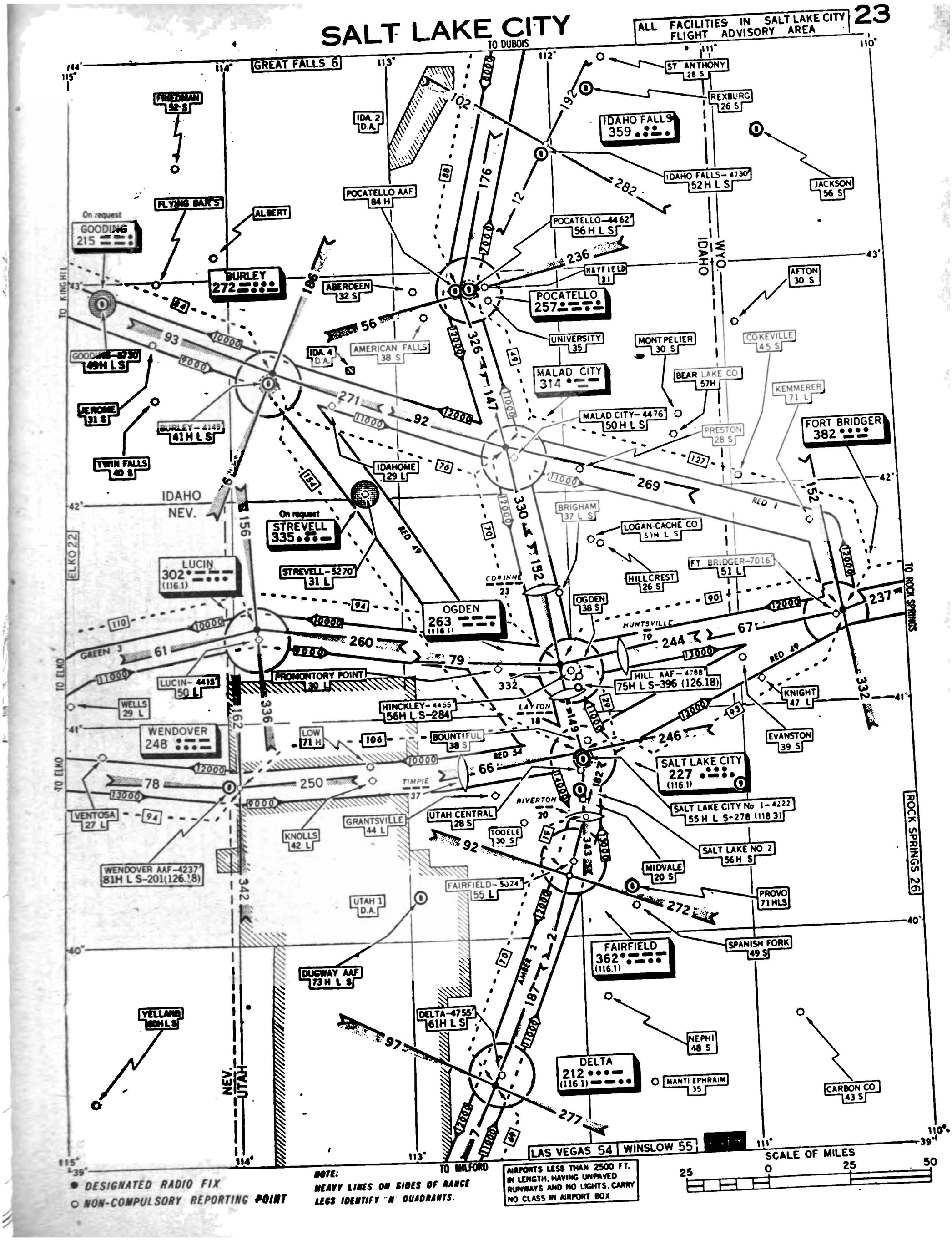
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SALT LAKE CITY

ALL FACILITIES IN SALT LAKE CITY FLIGHT ADVISORY AREA



SALT LAKE CITY

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURLEY	272 (BX)	SBRAPZ-DT,200°,2.7	(4)
GOODING (new)	215 (GG)	MHT	(4)
IDAHO FALLS (Mun.)	359 (IF)	SBMRAZ-DT,192°,2.6	(4)
MALAD CITY (Int.)	314 (WT)	SBRAZ-DT,131°,3.4	(4)
POCATELLO	257 (PQ)	BMRLZ-DT,.56°, 2.5	(4)
STREVELL (Int.)	335 (TV)	MHP	(4)

UTAH:

CORINNE FM	(- - - -)	FM, 332°, 23	Ogden
DELTA	212 (VZ)(116.1)	SBRAZ-VDT, 7°,3.6	(4); 116.1
FAIRFIELD (Int.)	362 (JL)(116.1)	BMRLZ-VDT, 2°, 4.4	(4); 116.1
HILL, OGDEN	396 (126.18)	CA	(4); 126.18
HUNTSVILLE FM	(-)	FM, 64°, 19	Ogden
LAYTON FM	(- - - -)	FM, 329°, 18	Salt Lake City
LUCIN (Int.)	302 (JB)(116.1)	BMRLZ-VDP,156°,2.4	(4); 116.1
OGDEN (Robert H. Hinckley)	263 (OG)(116.1)	SBRAZ-VDT,107°,3.4	(4); 116.1
RIVERTON FM	(- -)	FM, 163°, 19.5	Salt Lake City
ROBERT H. HINCKLEY,(Ogden)	284	CI	(4):(8:30-2130. Mon.&Tues. (1130-2130)
SALT LAKE CITY	227 (SL)(116.1)	SBRAZ-VDTX	(4); 116.1
Salt Lake City Arpt.#1	278 (118.3)	C; 163°, 3	**(4); 131.9,118.3.126.18, others on req.**
TIMPIE FM	(- - -)	FM, 246°, 37	Salt Lake City
WENDOVER	248 (WV)	SBMRAZ-DT	(4)
Wendover Field	201 (126.18)	CA; 258°, 2.2	(3):126.18 (8-22. other hrs. on 24 hrs advance notice)

WYOMING

FORT BRIDGER (Int.)	382 (HM)	SBRAZ-DT,228°,2.4	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen	2.7 SW;rd W	4466	32 S6	73 oct. No sto.
Albert,(Richfield)	5.2 NE;RR W	4400	23 S2	Ltd 80 oct.
American Falls	2 NE;RR NW	4404	38 S1	73 oct. Poles S.
Arco (NC)	1.5 ESE;hwy W	5330	26	Hills NE.
Bear Lake Co. (Paris)	3.3 ENE;riv NE	5928	57h	
Buhl (NC)	5.7 W;crk W,E	3690	41	
Burley	1.3 ENE;RR SW	4149	41h R1 L5 S4	80,91 oct.Pole line WNW.
Flying Bar "S" (Shoshone)	4.6 NNW;riv S	3900	12 S1	73 oct.
Friedman (Hailey)	0.8 S;RR E	5300	52 S1	73 oct.
Gooding (new)	3.5 WSW;hwy N	3730	49h R1 L5 S6	73 oct.
Gooding (old)	4 SSW	3570	20	
Tyhee,(Hayfield)	2 SE;RR W	4600	31	
IDAHO FALLS	2 NW;riv,RR E	4730	52h R1 L3 S6	80,91 oct.Polelines S,NE.
★ Idahome Int,13,SL-PO	0.8 NNE	4460	29 L3	
Jerome	3.3 ENE	3980	31 S1	73 oct.
MacKay (NC)	0.8 SE;RR NE	5900	30	Rough.
★ Malad City Int,9,SL-GT	2.6 WSW;riv WSW	4503	50h R1 L3 S1	73 oct.
POCATELLO	5.8 NW;RR S	4462	56h R1 L5 S6	80,91 oct.
(A) " AAF (A)	8.1 WNW	4445	84h	INACTIVE.
Preston	1.7 WNW;riv W	4800	28 S2	80 oct.
Rexburg	0.8 S;RR NW	4900	26 S4	80 oct.Rolling. No sto.
St.Anthony	1.1 SSE;RR W	4955	28 S1	73 oct.Poles,trees NNE.
★ Strevell Int,10, SL-PO	0.3 NNW;hwy W,S	5270	31 R1 L2	
Thousand Springs (Hagerman) (NC)	4.5 SSE;riv N	3000	30	
→ Montpelier	0.6 NNE; RR WSW	5900	30 S1	73 oct.Hills, trees S,SW,NE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV)(NC)-Not charted. → NEW OR REVISED DATA

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Twin Falls	6.5 S;creek N	4200	40 S6	80,91 oct.No sto.
University (Nam's)(Pocatello)	1 ENE;hwy W	4600	35 S2	Hills N,S.No fuel.
Victor (Bennett Fld)(NC)	0.8 SE;hwy W	6198	25	**UNUSABLE.**

NEVADA

★ Ventosa Int,48,SP-SL	0.5 N;RR S	5600	27 L3	
★ Wells Int,46B,SP-SL	1.5 S;rd W	5665	29 L2	
Yelland (Ely)	3.5 NNE;hwy E	6258	60h L3 S6	80 oct.Fld lgts prior req.

UTAH

Bountiful Sky Haven	2.6 WSW;rd E	4222	38 S4	80 oct.Pole line N,NW,SE.
Brigham	3 NW;RR S	4220	37 L3 S6	80 oct.
Carbon County (Price)	2.8 E;RR W	5800	43 S6	80 oct.
Delta	4.8 ENE;hwy NW	4755	61h R1 L5 S2	80,91 oct.
(A) Dugway (Tooele)(A)	41.5 SW;hwy E	4338	73h L5 S4	73,91,100 oct. CLOSED.
Duchesne (NC)	2.2 NNE;riv W	5700	55	Pole line W,NW.
★ Fairfield Int,59,LA-SL	6 NE;RR SE	5024	55 R1 L3	
★ Grantsville Int,60,SP-SL	3 N;RR E	4229	44 L3	Poles E.
(A) Hill (Ogden)(A)	6.5 S	4788	75h R1 L5 S6	63,73,91,100 oct.JP-1.
Hillcrest (Logan)	2.7 NE;RR W	4780	26 S6	80 oct.Mtn SSE.
(P) HINCKLEY (Ogden)	3.5 SW;RR NW	4455	56h R2 L5 S6	80,91 oct.
★ Knolls Int,56,SP-SL	5 ENE;RR S	4360	42 L3	
Logan-Cache Co.(Logan)	4 NNW;RR E	4460	53h L5 S6	80 oct.
Low Flight Strip	11.8 W;hwy S	4241	71h	
★ Lucin Int,52,Ogden Cut-off, SP-SL	3.5 E;RR S	4413	50 R1 L3	
Manti-Ephraim (Ephraim) (NC)	2.8 SW;RR SE	5500	35 S2	No fuel.
Midvale	3 WSW;RR NW	4500	20 S4	73 oct.No sto.
Mt. Pleasant (NC)	1.5 SSW;RR NW	5857	48 S2	80 oct.
Myton (NC)	1 E;riv N	5090	31	
Nephi	2.5 NW;RR E	4800	48 S1	Ltd 80 oct.
Ogden Airpark	4 S;hwy NE	4700	31 S4	73 oct.No sto.
★ Promontory Point Int,3, SL-PO	0.5 W;RR S,E	4280	30 L3	
(P) Provo	2.8 WSW;RR N	4490	71h L5 S6	73 oct.Fld lgts prior req.
SALT LAKE CITY #1	2.5 WNW;RR S	4222	55h R2 L6 S6	73,80,91 oct.Rdo rec req.
" No. 2	10.5 SSW;RR W	4617	56h S4	73 oct.
Spanish Fork	2 NW;RR SE	4560	49 S6	80 oct.
Tooele (NC)	1.4 WSW;RR W	4800	30 S4	80 oct.No sto.Mtns SE.
Utah Central (Salt Lake City)	4 SW;RR N	4240	28 S4	73 oct.Pole line N,NW.
(A) Wendover (A)	0.5 S;RR N	4237	81h R2 L5 S6	73,91,100 oct.JP-1.CLOSED.

WYOMING

Afton	0.3 SW;hwy E	6239	30 S5	73,80 oct. 40' trees N.
Cokeville	2.5 SSW;riv E	6250	45 S1	Ltd 73 oct.
Evanston	3.6 SSW	6800	39 S1	73 oct.200'hill SSE.
★ Fort Bridger Int,9,SL-OH	5 N	7016	51 R1 L3	Carter 3 mi NNW.
Jackson	9 N;riv W	6400	56 S1	73 oct.
★ Kemmerer Int,B17,BX-RT	1.5 NNW;RR S	7276	71 L3	
★ Knight Int,6,SL-OH	5 S;riv NNE	7615	47 L3	
Big Piney (NC)	2 N	6900	37	

RADIO — COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ EAGLE (6 mi. ENE Eagle)	108.3 (EQ) (111.1,116.1)	VAR-VDT	4495,3117.5,116.1,131.7
GRAND JUNCTION (12.7 mi. SW of Walker Field)	108.7 (EJ) (111.1,116.1)	VAR-VDT (ILS)	3105,4495,3117.5:131.7, 116.1 only.
WYOMING			
CASPER (Wardwell Field)	269 (CW)	SBRAZ-DT,263°,2	(4)
DOUGLAS (Int.)	251 (DQ)	HT	(4)
LARAMIE (Gen'l. Brees Field)	245 (LR)	SBMRAZ-DT, 137°, 2.2	(4)
MIDWEST FM	(- - - -)	FM, 339°, 15.1	Casper
PT.OF ROCKS FM	(-)	FM, 66°, 15.4	Rock Springs
ROCK SPRINGS (new)	290(RT)(116.1)	SBRAZ-VDT, 246°,2.8	(4); 116.1
SILVER CROWN FM	(- - -)	FM, 282°, 12	Cheyenne
SINCLAIR (Int.)	209(XP)(116.1)	SBMRAZ-VDT, 80°, 1.7	(4): 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)							
LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WALKER, COLO.	110.3 .•--	335	110° Mag	IM	MM ····· (.69)	OM -- (4.52)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — COLORADO

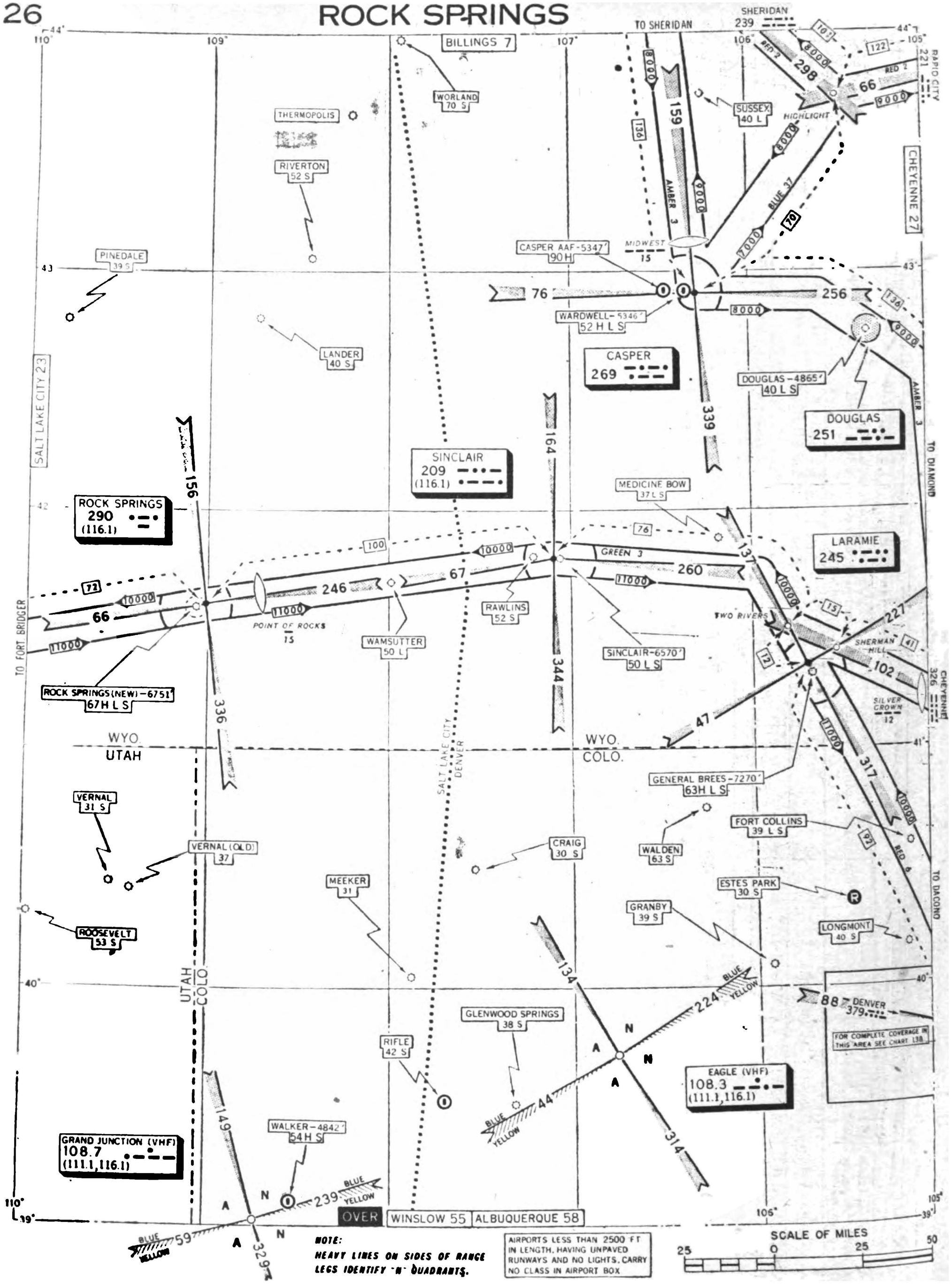
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Craig	1.8 SE;riv N	6300	30 S6	80, 91 oct.
Estes Park	2 SE;riv N	7635	30 S1	80,91 oct.Trees S.
(P) Ft.Collins,5,DV-LR	4 WNW;rd S	5150	39 L2 S6	73,80 oct.Poles SE.
Glenwood Sprgs.	2 S	5900	38 S1	73 oct.
Granby	1 ENE;riv W	8200	39 S1	80 oct.Poleline E.
Leadville (NC)	3 NNW;hwy E	10,000	45	
Longmont	2.9 W;RR N	5030	40 S6	80,91 oct.Trees NW.
Meeker	1.3 E;hwy S	6300	31	
Rifle	3.3 E;riv N	5400	42 S1	80 oct.
Teter (Fairplay)	3 SSE;hwy E	9700	67	(NC)
Walden	1.5 N;hwy W	8250	63 S1	80 oct.
P) WALKER (Grand Junction)	2.8 NNE;rd W	4842	54h L3 S6	80,91 oct.
UTAH				
Roosevelt	1.3 NE;hwy S	5000	53 S2	80,91 oct.Poleline SE,E
Vernal (new)	1 SSE;hwy N,E	5280	36 S6	80,91 oct.
Vernal (old)	7 ESE;riv 4 E	5200	37	

WYOMING

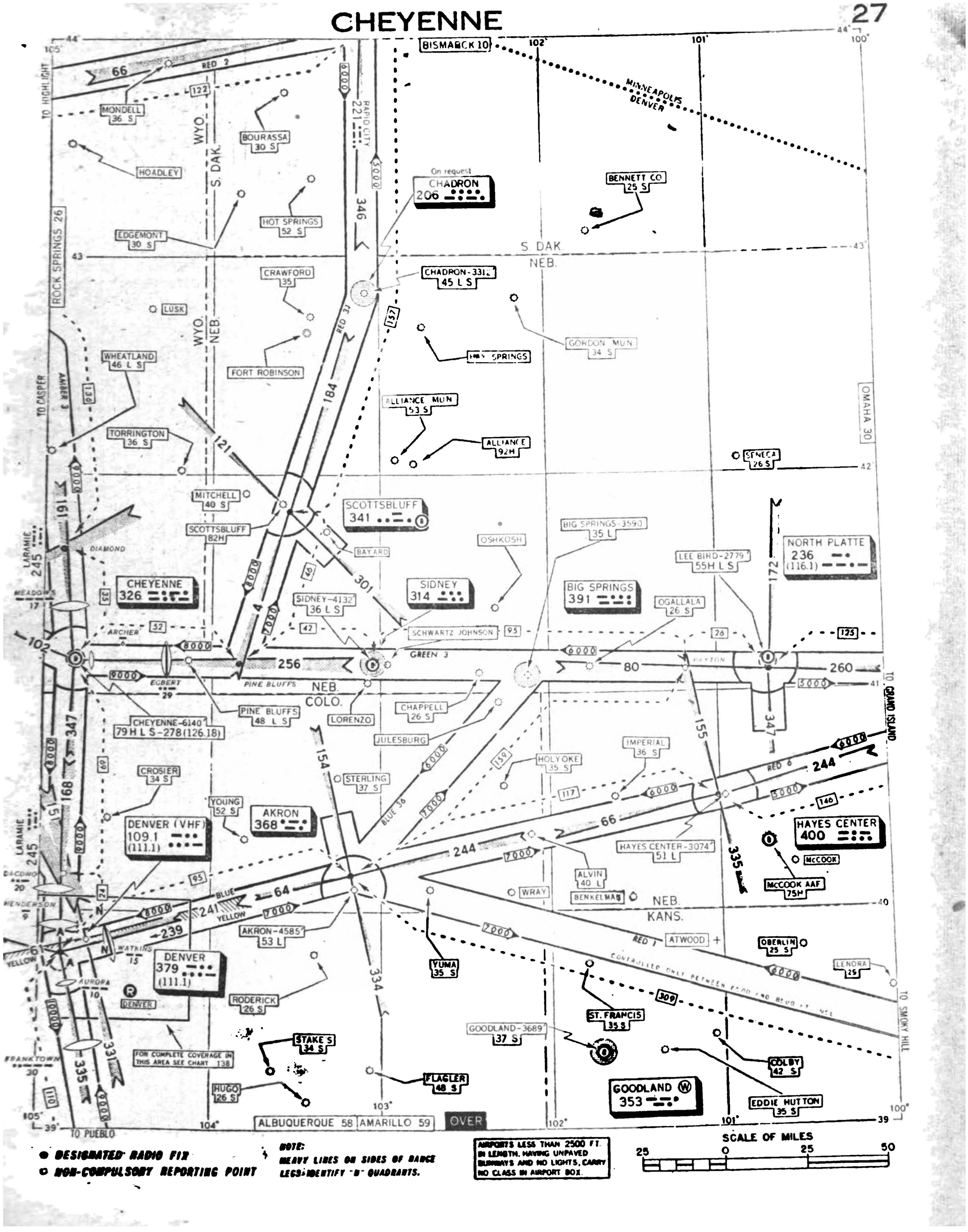
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Casper AAF(A)	9 NNW;hwy SW	5347	90h	INACTIVE
★ Douglas Int,11B, CX-GT	1.5 SE;RR W	4865	40 R1 L3 S1	73 oct.
→ General Brees (Laramie)	4 W;riv SE	7270	63h R1 L5 S6	73,91,100 oct.
Lander	1.5 S;riv W	5550	40 S2	73 oct.
Medicine Bow,31, SL-OH	1.3 SE;RR N	6640	37 L3 S1	73 oct
Pinedale	5.5 SSE;hwy NE	7200	39 S2	73 oct.
Rawlins	2.3 NE;RR 1 S	6780	52 S4	80,91 oct.
Riverton	3.8 NW;hwy SW	5453	52 S4	Ltd 73 oct.
ROCK SPRINGS (new)	8.8 E;RR N	6751	67h R1 L5 S6	73,91 oct.
(P) Rock Springs (old)	3.8 NNW	6370	58	(NC)
★ Sinclair Int,27, SL-OH	3.8 ENE;RR S	6570	50 R1 L3 S1	73,100 oct.
★ Sussex Int,22A,CX-GT	2.5 NNE;riv 5 E	4800	40 L3	
Thermopolis	1 N; riv W	4400	33 S1	80 oct.
★ Wamsutter Int,22, SL-OH	2.4 NNW;RR E	6812	50 L3	35' pole line S.
WARDWELL (Casper)	5 NNW;hwy E	5346	52h R1 L5 S6	73,91 oct.
(P) Worland (NC)	2.8 S;canal NW	4185	70 S1	80, 91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIV) (NC)-Not Charted. → NEW OR REVISED DATA

ROCK SPRINGS



CHEYENNE


BISMARCK 10
MINNEAPOLIS
DENVER
MONDELL 36 S
BOURASSA 30 S
HOADLEY
HOT SPRINGS 52 S
EDGEMONT 30 S
CRAWFORD 35
LUSK
FORT ROBINSON
WHEATLAND 46 L S
TORRINGTON 36 S
MITCHELL 40 S
SCOTTSBLUFF 82H
SCOTTSBLUFF 341
BAYARD
OSHKOSH
On request
CHADRON 206
BENNETT CO 25 S
CHADRON-3312 45 L S
GORDON MUN 34 S
ALLIANCE MUN 53 S
ALLIANCE 92H
SENECA 26 S
BIG SPRINGS-3590 35 L
LEE BIRD-2779 55H L S
NORTH PLATTE 236 (116.1)
CHEYENNE 326
SIDNEY 314
SIDNEY-4132 36 L S
BIG SPRINGS 391
OGALLALA 26 S
SCHWARTZ JOHNSON
GREEN 3
PAXTON
CHEYENNE-6140 79 H L S-278(126.18)
PINE BLUFFS 48 L S
LORENZO
CHAPPELL 26 S
JULESBURG
IMPERIAL 36 S
HOLYOKE 35 S
CROSIER 34 S
STERLING 37 S
YOUNG 52 S
AKRON 368
DENVER (VHF) 109.1 (111.1)
HAYES CENTER 400
HAYES CENTER-3074 51 L
McCOOK
McCOOK AAF 75H
ALVIN 40 L
WRAY
BENKELMAN
ALLIANCE 92H
AKRON-4585 53 L
DENVER 379 (111.1)
YUMA 35 S
OBERLIN 25 S
LENORA 25
ATWOOD
RODERICK 26 S
STAKE S 34 S
FLAGLER 48 S
HUGO 26 S
ST. FRANCIS 35 S
GOODLAND-3689 37 S
GOODLAND 353
COLBY 42 S
EDDIE HUTTON 35 S
FOR COMPLETE COVERAGE IN THIS AREA SEE CHART 138
CONTROLLED ONLY BETWEEN FL200 AND BELOW AT NIGHT
TO CASPER
TO HIGHLIGHT
TO PUEBLO
TO SMOKY HILL
TO GRAND ISLAND
ROCK SPRINGS 26
RAPID CITY
OMAHA 30
S. DAK.
NEB.
WYO.
COLO.
KANS.
ALBUQUERQUE 58
AMARILLO 59
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
25 0 25 50

RADIO

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AKRON (Int.)	368 (RN)	SBMRAZ-DT, 154°,3.6	(4)
AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DACONO FM	(. . -)	FM, 348°, 20	Denver
DENVER (Stapleton)	379(DV)(111.1)	SBMRAZ-VDTX;159°,2.5	(4);131.7
DENVER (9 mi ENE Stapleton)	109.1(DV) 111.1	VAR-VDT	(4); 131.7
FRANKTOWN FM	(. . - - -)	FM, 155°, 29.6	Denver
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

KANSAS

GOODLAND	353 (GN)	HW-T	

NEBRASKA

BIG SPRING (Int.)	391 (BG)	BHT	(4)
CHADRON	206 (HC)	MHT	(4)
HAYES CENTER (Int.)	400 (KB)	SBMRAZ-DT,64°, 2.1	(4)
NORTH PLATTE (Lee Bird)	236(NQ)(116.1)	SBRAZ-VDT,352°,2.2	(4); 116.1
SCOTTSBLUFF	341 (TF)	BMRLZ-DT, 301°, 3	(4)
SIDNEY (Int.)	314 (SD)	BH-DT, 350°,0	(4)

WYOMING

ARCHER LFM	(-)	LFM, 76°,5.6	Cheyenne
CHEYENNE	326 (CX)	SBRAZ-DT	(4)
Cheyenne Airport	278 (126.18)	C; 76°, 1	(4);116.1,131.9,126.18
EGBERT FM	(. . -)	FM, 76°, 29	Cheyenne
MEADOWS FM	(- - - -)	FM, 341°,16.8	Cheyenne

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.;Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Akron Int.,9,DV-GI	3.9 SE; RR N	4585	53 R1 L3	
★ Alvin Int.,15,DV-GI	3.5 NNE	3600	40 L3	Rds S, N.
Burlington (NC)	0.5 W	4160	32	Pole line S, N.
Crosier (Greeley)	3.5 E; RR N	4648	34 S6	73 oct.
Doughty's (Julesburg)	12 ESE	3600	18	PRIVATE,Use in emergency.
Flagler	0.8 S; RR N	4975	48 S1	73 oct. 20' pole line E.
Holyoke	1.8 ESE; RR NW	3720	35 S1	80 oct.
Hugo	1.5 E; RR S	5034	26 S1	80 oct.
Julesburg	2.8 SW; RR SE	3490	24 S4	73 oct.No sto.Pwr line S.
Roderick (Lindon)	4.3 N; riv E	4900	26 S1	73 oct.
Stake's Prairie(Limen)	2.2 ENE; RR S	5375	34 S4	73 oct.
(P) Sterling	2.8 W; RR S	4020	37 S6	73,80 oct.
Wray	1.2 NNW; RR S	3400	30 S1	Ltd 73 oct.
Young (Fort Morgan)	6 N; hwy E	4460	52 S4	73 oct.
Yuma	1.4 SSE; RR N	4150	35 S6	73 oct. Poles S, SW.

KANSAS

→ Atwood	2 N;hwy W	2900	26 S1	73 oct.Data unverified.
Colby	1.8 N; RR S	3150	42 S2	80 oct. Poles SW, W.
Eddie Hutton (Brewster)	1 SE; RR N	3420	35 S2	73 oct.
→ Goodland	2 NNE; hwy W	3689	37 S6	80,91 oct.Trees NW.
Lenora (NC)	1.2 NNW; hwy S	2325	29	
Oberlin	0.9 NW; RR SE	2684	25 S1	80 oct. Pole line SE, NE.
St. Francis	1 SSE; riv NW	3400	35 S2	80 oct.

NEBRASKA

Alliance	4.6 SE; RR N	3930	92h	
Mun	2.8 SW; RR,hwy E	3965	53 S6	80 oct.
Bayard	1.3 SSW; RR N	3760	25 S2	No fuel. Poles N,E,NW,SE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiv)(NC)-Not charted. → NEW OR REVISED DATA

NEBRASKA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Benkleman	1.2 NNE; RR SE	2990	28 S1	80 oct.
★ Big Springs Int,55,SL-OH	3 WNW; hwy N	3590	35 R1 L3	Pole line E.
Chadron,15,CX-HR	4.8 W; hwy S	3312	45 R1 L3 S4	73 oct.
Chappell	3 E; RR SW	3830	26 L1 S2	80 oct. Pole line W.
Crawford	3.8 NNW; hwy E	3676	35	Poles E. W.
(A) Ft. Robinson (A)	2 S; RR N	3920	18	
Gordon	1.3 E; RR N	3549	34 S4	73,80 oct. Poles N,S,W.
★ Hayes Center Int,21,DV-GI	3 ENE; rd S	3074	51 R1 L3	
Hay Springs	2.5 W; hwy E	3840	17 S2	80 oct. Pole line N.
Imperial	1 ESE; RR SW	3280	36 S4	80 oct.
(P) LEE BIRD (North Platte)	3.2 ESE; riv SW	2779	55h R1 L5 S6	73,80,91,100 oct.
Lorenzo	0.6 WNW; RR E	4400	17 S1	Ltd 73 oct. Cattle on fld.
McCook	2.2 E; RR,hwy S	2586	42 S4	80 oct. Windmill N.
(A) " AAF (A)	9 NNW; hwy E	2784	75h	INACTIVE.
Mitchell	1.6 S; riv N	3950	40 S6	73,80 oct. Trees, poles NW.
Modisett (Rushville)(NC)	2.4 NE; RR S	3475	30	Bldgs, pole line E.
Ogallala	2 W; RR S	3250	26 L1 S6	80 oct. Poles S, SE, SW.
Oshkosh	1.8 SE; riv S	3375	21 S1	Ltd 80 oct. Poles NW,NE.
Schwartz-Johnson (Sidney)	1.6 SSE; RR,hwy N	4120	32 S1	73,80,91 oct.
SCOTTSBLUFF	3.3 E; hwy S	3945	82h R1	
Seneca	2.2 NNW; riv S	3200	26 S1	Ltd 80 oct. Twr NNW.
★ Sidney Int.,50,SL-OH	3 W; RR N	4132	36 R1 L3 S1	Ltd 73,80 oct.
Valentine (NC)	1.5 SSE; hwy E	2579	18	Not maintained.Rough.PolesNE

SOUTH DAKOTA

Bennett Co. (Martin)	4.4 SSE; riv N	3325	30 S1	73 oct. Pole line sur fld.
Bourassa (Custer)	1 ESE; hwy N	5301	30 S2	73 oct. Poles W, NW.
Edgemont	1.1 SW	3575	30 S2	73 oct.
Hot Springs	5.5 SSE; riv N	3075	52 S2	73 oct.

WYOMING

(P) CHEYENNE	1 N; lakes WNW	6140	79h R2 L5 S6	73,80,91,100 oct. Poles W.
Hoadley (Dull Center)	9.4 NE	4176	24 S1	73,80 oct.
Mondell (New Castle)	6.2 WNW; RR N	4260	36 S2	73 oct.
(P) Pine Bluffs,44,SL-OH	4.2 WSW; RR S	5128	48 L3 S2	80 oct. Pole line N.
(P) Torrington	3.4 S; hwy W	4350	36 S1	73,91 oct. Pwr line S, W.
Wheatland,6,CX-GT	3.4 NNW; riv N	4648	46 L3 S6	80 oct.
Lusk	2.9 E;RR S	5000	47 S1	73 oct.Poles SE.

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
IOWA			
ATLANTIC	257 (IZ)	MHT	(4)
CALIFORNIA FM	(- - - -)	FM, 333°, 18	Omaha, Nebr.
GREENWOOD FM	(- -)	FM, 146°, 23.8	Omaha, Nebr.
HANCOCK FM	(-)	FM, 73°, 30.5	Omaha, Nebr.
SIOUX CITY	335 (YX)	SBMRLZ-DT	(4)
Sioux City Airport	396 (126.18)(118.3)	AC; 337°, 1.9	(4);131.9,126.18,118.3
SLOAN FM	(- -)	FM, 157°, 8.8	Sioux City
KANSAS			
MARSHALL (Fort Riley)(Army)	215 (DFY)	SBMRAZ	
Marshall Field	396 (126.18)	CA; 196°, 4	(3); 126.18
PHILLIP BILLARD (Topeka)	278	CI	(3) (sunrise-sunset)
→ TOPEKA	109.1 (PK)	VARW; 211°, 6	
MISSOURI			
TARKIO	281 (TK)	MHT	(4)
WALDO	108.7(IO)	VARW	
NEBRASKA			
GRAND ISLAND	260 (GI)(116.1)	SBMRLZ-VDT	(4); 116.1
Grand Island AAP	278 (126.18)	CA (ILS): 165°, 1.3	(3); 126.18 (7-22)
KEARNEY (Army)	536 (DKR)	HW	
Kearney AAP	396 (126.18)	CA; 130°, 5.3	(4); 126.18 (8-17)
LINCOLN	385 (HK)	SBMRLZ-DT; 170°, 2.6	(4)
MEAD FM	(- - -)	FM, 252°, 28.4	Omaha
OFFUTT (Omaha)	396 (126.18)	CA	(3); 126.18
OMAHA	320 (OH)	SBRAZ-DT	(4)
Omaha Airport	278 (126.18)	C (ILS); 146°, 0.8	(4);116.1,131.9,126.18
OVERTON	278 (OV)	MHT	(4)
SOUTH DAKOTA			
SIOUX FALLS	245 (YL)	SBRAZ-DT, 93°, 2.3	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
OMAHA, NEBR.	110.3	335	135° Mag.	IM ·····(.06)	MM	OM --(4.90)
					MMK	OMK
GRAND ISLAND AAF, NEBR.	110.3	335	349° Mag.	IM (.08)	MM ·····(1.00)	OM --(4.50)
					MMK	OMK

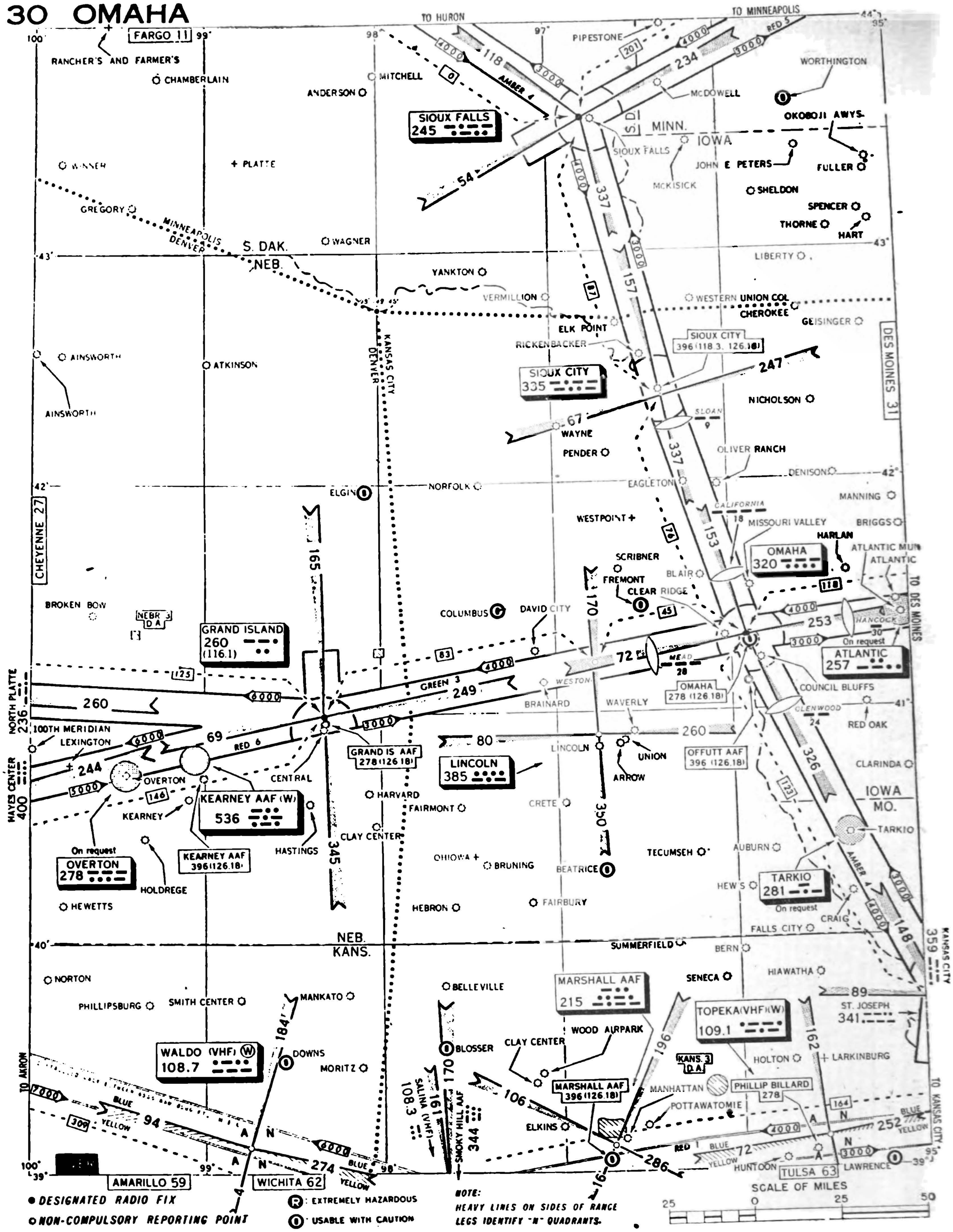
S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

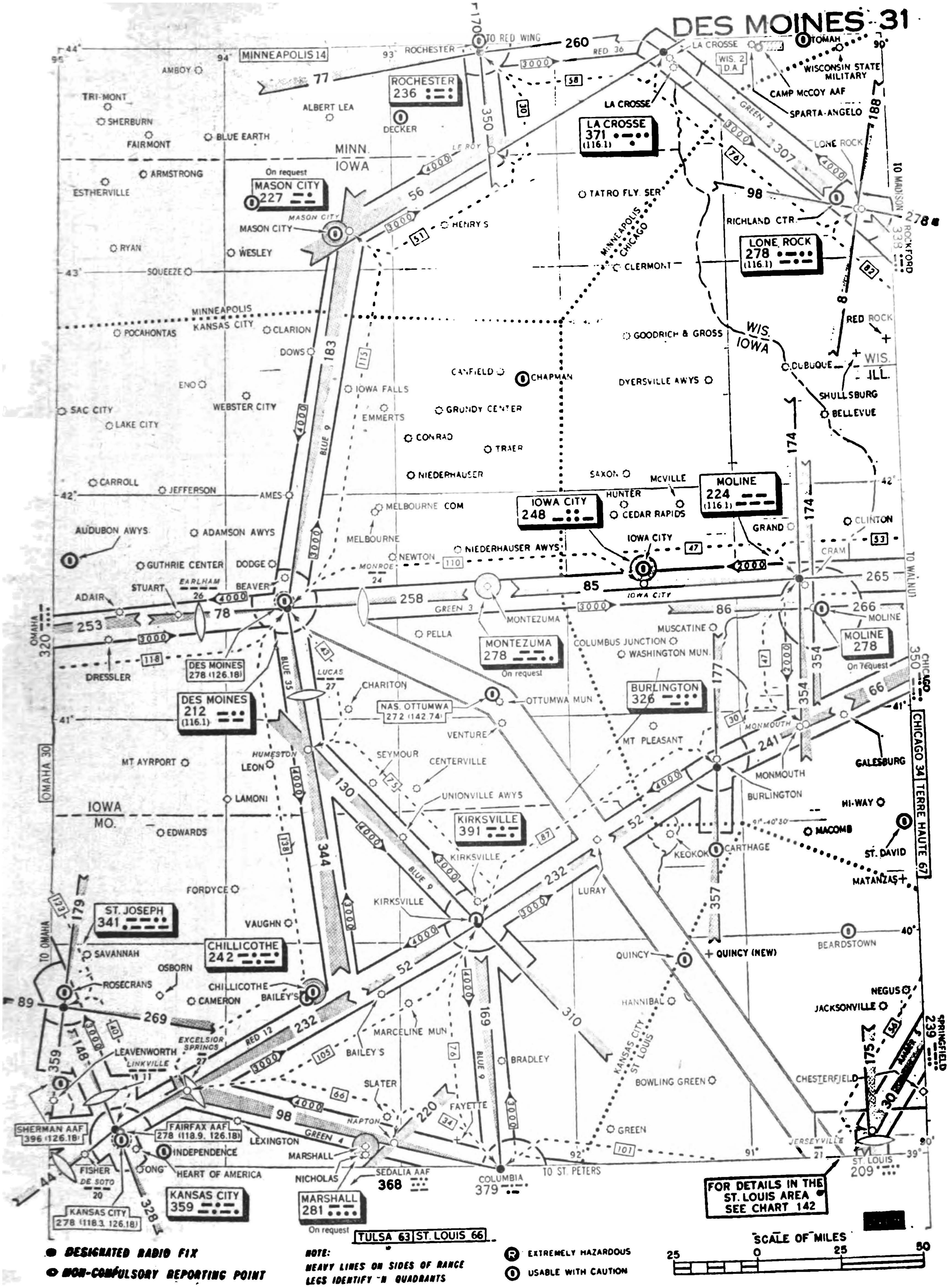
AIRPORTS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
IOWA				
Atlantic	4.6 NW; RR S	1353	21 S6	80,91 oct.
" mun	1.9 W; RR E	1153	33 R1 L3	Beacon 1/4 mi W.
Briggs (Piscus)	4.2 NE; RR E	1370	21 S2	80 oct. Trees N.
Clarinda	0.8 SE; RR W	1060	26 S4	80 oct.
Council Bluffs	3 SE; RR S	980	37 S6	80 oct. Bldgs SW.
Denison	2.4 WSW; riv SE	1200	20 S2	80 oct. Trees SSW.
Fuller (Milford)	0.7 NNW; hwy E	1440	36 S6	80 oct. Trees, poles E,W,S.
Geisinger (Storm Lake)	0.5 N; RR E	1240	13 S2	73 oct. Poles W,E.
Harlan	5 SSW; hwy E	1196	18 S2	73 oct.
Hart (Spencer)	1.6 S; hwy N	1100	26 S4	80 oct. Pole line NE,N.
John E. Peters (Ocheyedan)	1.5 N; hwy S	1425	24 S2	80 oct. 25' pole line S.
Liberty (Sutherland)	2.1 WSW; RR W	1465	23 S6	80 oct. 35' pole line E.
Manning	0.6 SW; RR W	1327	25 S2	73 oct.
McKisick (Rock Rapids)	3 N; riv W	1361	31 S4	80 oct. Trees W.
Missouri Valley	1.5 S; RR W	960	16 S2	80 oct.
Nicholson (Ida Grove)	1.9 WSW; RR N	1120	20 S1	80 oct.
Okoboji Airways(Spirit Lake)	2.8 SW; hwy E	1450	20 S2	80 oct. Poles NE.
Oliver Ranch (Onawa)	5 SE; hwy W	1040	26 S1	Ltd 80 oct. Trees sur fld.
Randolph (NC)	1.7 NNE; RR W	1050	20	
Red Oak	1.5 W; RR E	1044	25 S2	80 oct. Pole line N.
Sheldon	5 NNE; RR W	1444	33 S6	80 oct. Pole line S,W,SW,SE.
(A) SIOUX CITY	7 S; RR E	1097	69h R2 L5 S4	80,91 oct; 100 oct mil. acft.
(P) Spencer	2.9 WNW; RR S	1335	40 S6	80,91 oct.
Thorne (Moneta)	2.5 S	1410	25 S2	80 oct. Pole line, trees W.
(P) Western Union (Le Mars)	1.3 SW; RR SE	1190	30 S6	80 oct. Low obst.
Cherokee	1 S; RR W,S	1218	19 S1	80 oct.
KANSAS				
Belleville	1.8 WSW; hwy S	1520	24 S2	73 oct.
Bern	0.6 S; RR N	1300	26 S1	80 oct. Pwr line N.
Blosser (Concordia)	1 SSE; hwy W	1510	26 S2	80 oct.
Clay Center	1.5 W; hwy S	1200	30 S2	80 oct. Poles S, NW.
Downs	Adj SW; RR N, NW		20 S2	80 oct. Data not verified.
Elkins (Wakefield)	1 SSE; riv NE	1170	13 S1	80 oct. Poles W.
Hiawatha	1.3 WSW; RR E	1110	24 S1	80 oct. Pwr line N.
Holton	0.9 E; RR N	1020	21	Trees N.
Huntoon (Topeka)	5.4 W; riv N	1000	18 S6	80 oct. Pwr line N.
Larkinburg	0.3 E of Holton	947	27 S2	80 oct. Hi-lines N. Data unverified.
Lawrence	2.5 NNE; hwy S	840	32 L3 S6	80 oct. No beacon. Poles W. Lgts prior req.
Manhattan	5.5 WSW; RR SE	1050	31 S6	80 oct.
Mankato	0.8 ESE; RR S	1780	22 S4	73 oct.
(A) Marshall (Ft. Riley)(A)	1.8 SE	1062	45h R2 L5 S6	73,91,100 oct. Ditch E,S.
Moritz (Beloit)	1.2 NW; RR S	1420	24 S2	73 oct. Trees E.
KANSAS				
(P) Norton	0.7 NNW; hwy E	2365	52 S3	73 oct. Pole line E, S.
PHILLIP BILLARD (Topeka)	3.5 ENE; RR S	879	42h R1 L5 S6	80, 91 oct.
Phillipsburg (NC)	1.5 S; RR N	1882	33 S1	80 oct
Pottawatomie (Manhattan)	1.4 NE; RR SE	1100	20 S4	80 oct. Poles SE, NW, NE.
Seneca	0.5 W; RR S	1250	24	Poles N, S.
Smith Center	1 SSW; RR NW	1806	27 S1	80 oct.
Summerfield	0.3 SSE; RR W	1450	20 S2	80 oct. Pole line N. NW.
Wood Airpark (Clay Center)	3.5 N; hwy W	1260	15 S6	80 oct. No sto. Pole line W.
MINNESOTA				
McDowell (Luverne)	8 NW; hwy W	1440	25 S4	80 oct.
Pipestone	1 SE; RR E, W	1735	20 S4	Ltd 80 oct.
Worthington	1.4 N; lake SSW	1580	26 S1	80 oct.
MISSOURI				
Craig	0.6 NE; RR SW	875	25 S1	73 oct. Pole line WNW.
Tarkio IO, KC-OH	1.2 ENE; RR W	918	40 R1 L3 S4	80 oct. Trees N.
NEBRASKA				
Ainsworth	7 WNW; RR S	2580	73h	
" mun	1 ENE; hwy S	2521	52 S5	80 oct. Pole line S.
Arrow (Lincoln)	4.8 NE; hwy E	1160	25 S6	73,80 oct.
Atkinson	14 SW; riv NE	2109	22	Trees S; pole line E,SE,N,NW.
Auburn	2.7 E; riv SW	960	29 S6	80 oct. Pole line N, NW, NE.
(P) Beatrice	3.5 N; hwy E	1260	30 S4	80 oct. Twrs S, SW.
Blair	3 NNW; RR E	1050	24 S6	80,91 oct. Windmill NW.
★ Brainard Int., 82, SL-OH	5.5 SW; hwy W	1640	31 L3	
Broken Bow	2 N	2400	30 S6	80 oct.
Bruning	7.7 E; RR N	1544	68h	
Central (Grand Island)	1.7 NE; RR S	1851	33 S6	73,80 oct. Pole lines W, S, N, E.
Clay Center	1.5 E; hwy N	1800	26 S2	73 oct.
Clear Ridge (Omaha)	5.2 NW; RR N	1230	24 S6	80 oct. Pole line E.
Columbus	1.3 NE; RR S	1445	26 S2	No fuel. Pole line SSE, SSW.
Crete	1 S; RR NE	1368	24 L3 S2	73 oct. Lgts prior req.
David City	1.5 N;hwy W	1640	22 S2	80 oct. Windmill E.
Eagleton (Decatur)	1 S; riv NE	1100	26 S2	73 oct. Poles NE; trees NW.
Elgin	0.8 SW, RR E	1930	16 S6	80 oct. Bldgs SE, N.
Fairbury	2.5 NNE;RR,hwySE	1516	26 S6	80 oct. Pole line W, NW, S.
Fairmont (Geneva)	4.8 NE	1639	70h	
Falls City	2 SSW, riv N	910	14 S1	Ltd 80 oct. Pole line N, W.
(P) Fremont	1.4 WNW;RR's NE	1203	38h S4	80 oct. Pole line N,NE,E,SE Twr SW.
(A) Grand Island AAP (A)	3.5 NE; RR W	1843	72h R3 L5 S6	73, 91, 100 oct. Twr SW.
Harvard	2.5 NE	1817	76h	
Hastings	1.5 NW; RRs N,S	1940	35 S6	73 oct.
Hebron	1 S; RR W	1458	26 S4	80 oct. S approach 6.1, SW 10:1.
Hewett's (Beaver City)	2.5 NNE; hwy S	2300	40 S1	73 oct. Pole NNW, SSW, bldg N.
Hew's (Humboldt)	4.2 NNE; RR S	1200	13	Pwr line E.
Holdrege	2 NNE; creek S	2324	26 S4	80 oct.
Kearney	4.5 S; riv N	2145	15 S1	80 oct. Trees N. pole line E.
(A) Kearney AAP (A)	4.5 ENE; RR S	2140	73h R2 L5 S6	73,91,100 oct. No sto. JP-1.
Lincoln	5.5 NW;RR NE	1190	71h R1 L5	Fld lgts prior req.
(P) Norfolk	3 SSW; RR Wriv N	1572	58h S4	73 oct.
(A) Offutt (Omaha)(A)	10 S; RR W	1046	61h R1 L5 S4	91,100 oct. No sto.
Ohiowa	3 SW	1572	20	Fence sur fld. Data unverified.
OMAHA	3.5 NE, lake W	977	54h R3 L6 S6	73,80,91,100 oct. No contact lgts.
100th Meridian (Cozad)	0.8 SW; RR N	2490	22 S1	80 oct. Pole line E.
★ Overton Int.,69, SL-OH	4.8 E; RR S	2300	40 R1 L3	Bldgs, trees NW; poles NE.
Pender	1 NE, RR SW	1400	22 S2	73 oct. Pole line S, SE.
Scribner	4.1 SSE; hwy N	1315	67h	
Steckley (Weeping Water)	3 S; RR, rd E	1260	26	Pole line N.
Tecumseh	1 W; RR NE	1115	26 S2	80 oct. Trees W; pole line N.
Union (Lincoln)	4.8 NNE; RR S	1140	18h L3 S6	80,91 oct. All lgts prior req.
(P) Wayne	1.8 E; RR N	1475	33 S4	80 oct. Pole line NW.
Waverly (Lincoln)	9 NE; RR SE	1180	20	Poles SE, SSW.
→ West Point	1.5 E;hwy W		16 S4	80 oct. Data unverified.
SOUTH DAKOTA				
Anderson (Mitchell)	2.7 W; RR N	1293	29 S6	80 oct. Poles [illegible] fld.
Chamberlain	3.4 SE; hwy N	1689	26 S2	73,80 oct. Poles N, NW.
Elk Point	2.4 E, riv NE	1120	26 S2	80 oct. Poles N, NW.
Gregory	2.2 S; RR NE	2000	22 S2	73 oct. Pole line E, SE.
Mitchell	4 N; hwy E	1292	67h	
Rancher's & Farmer's(Reliance)	9 N; rd N, S		30 S1	73 oct.Data unverified.
Rickenbacker (Stevens)	1 N; riv E	1114	28 S6	80,91 oct.
SIOUX FALLS MUNICIPAL	2.5 NNW; RR E	1420	57h R1 L5 S3	80,91 oct. Contact lgts prior req.
Vermillion	3.8 WNW; RR NE	1140	25 S4	80 oct. Poles N.
Wagner	1.3 S; RR N	1464	30 S1	73 oct. Poles E, NW.
→ Winner	1.3 NE; RR SW	2038	26 S6	80,91 oct.
(P) Yankton	2.3 N; hwy W	1400	37 S6	80 oct. Twr E.
Platte	1.4 NE	1612	24 S1	80 oct. Data not verified.
Lexington, N.D.	1 W; RR S	2400	32 S5	Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIVI(NC)-Not chartered → NEW OR REVISED DATA

30 OMAHA


TO HURON
TO MINNEAPOLIS
FARGO 11
RANCHER'S AND FARMER'S
CHAMBERLAIN
MITCHELL
ANDERSON
PIPESTONE
WORTHINGTON
McDOWELL
SIOUX FALLS
245
S.D.
MINN.
IOWA
OKOBOJI AWYS.
JOHN E PETERS
FULLER
SHELDON
SPENCER
THORNE
HART
WINNER
PLATTE
GREGORY
MINNEAPOLIS
DENVER
S. DAK.
NEB.
WAGNER
YANKTON
VERMILLION
LIBERTY
WESTERN UNION COL
CHEROKEE
GEISINGER
ELK POINT
RICKENBACKER
SIOUX CITY
396 (118.3, 126.18)
SIOUX CITY
335
DES MOINES 31
AINSWORTH
ATKINSON
KANSAS CITY
DENVER
NICHOLSON
SLOAN
WAYNE
PENDER
OLIVER RANCH
DENISON
EAGLETON
ELGIN
NORFOLK
MANNING
CALIFORNIA
WESTPOINT
MISSOURI VALLEY
BRIGGS
HARLAN
ATLANTIC MUN
ATLANTIC
SCRIBNER
FREMONT
BLAIR
CLEAR RIDGE
OMAHA
320
CHEYENNE 27
BROKEN BOW
NEBR
DA
COLUMBUS
DAVID CITY
HANCOCK
On request
GRAND ISLAND
260
(116.1)
ATLANTIC
257
NORTH PLATTE
236
100TH MERIDIAN
LEXINGTON
WESTON
BRAINARD
WAVERLY
OMAHA
278 (126.18)
COUNCIL BLUFFS
CLENWOOD
RED OAK
HAYES CENTER
400
OVERTON
CENTRAL
GRAND IS AAF
278 (126.18)
LINCOLN
385
LINCOLN
UNION
ARROW
OFFUTT AAF
396 (126.18)
CLARINDA
KEARNEY AAF (W)
536
KEARNEY
HARVARD
FAIRMONT
CRETE
IOWA
MO.
TARKIO
On request
OVERTON
278
HOLDREGE
KEARNEY AAF
396 (126.18)
HASTINGS
CLAY CENTER
OHIOWA
BRUNING
BEATRICE
TECUMSEH
AUBURN
HEWETTS
HEBRON
FAIRBURY
HEWS
TARKIO
281
On request
CRAIG
FALLS CITY
NEB.
KANS.
SUMMERFIELD
BERN
SENECA
HIAWATHA
KANSAS CITY
359
NORTON
PHILLIPSBURG
SMITH CENTER
MANKATO
BELLEVILLE
MARSHALL AAF
215
TOPEKA (VHF) (W)
109.1
ST. JOSEPH
341
WOOD AIRPARK
CLAY CENTER
BLOSSER
WALDO (VHF) (W)
108.7
DOWNS
MORITZ
SALINA (VHF)
108.3
SMOKY HILL AAF
344
MARSHALL AAF
396 (126.18)
MANHATTAN
PHILLIP BILLARD
278
KANS. 3
DA
HOLTON
LARKINBURG
POTTAWATOMIE
ELKINS
TO AKRON
TO DES MOINES
TO KANSAS CITY
AMARILLO 59
WICHITA 62
TULSA 63
HUNTOON
LAWRENCE
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R : EXTREMELY HAZARDOUS
O : USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.


DES MOINES 31
MINNEAPOLIS 14
ROCHESTER
TO RED WING
260
RED 36
LA CROSSE
TOMAH
WISCONSIN STATE MILITARY
CAMP McCOY AAF
SPARTA-ANGELO
WIS. 2 D.A.
GREEN 2
LONE ROCK
TO MADISON
TO ROCKFORD
AMBOY
TRI-MONT
SHERBURN
FAIRMONT
BLUE EARTH
ALBERT LEA
DECKER
ROCHESTER 236
LA CROSSE 371 (116.1)
MINN.
IOWA
LE ROY
ARMSTRONG
ESTHERVILLE
On request
MASON CITY 227
MASON CITY
HENRY S
TATRO FLY. SER
RICHLAND CTR.
LONE ROCK 278 (116.1)
RYAN
WESLEY
SQUEEZE
CLERMONT
MINNEAPOLIS CHICAGO
MINNEAPOLIS KANSAS CITY
POCAHONTAS
CLARION
DOWS
GOODRICH & GROSS
WIS. IOWA
DUBUQUE
RED ROCK
WIS. ILL.
SHULLSBURG
BELLEVUE
ENO
SAC CITY
LAKE CITY
WEBSTER CITY
IOWA FALLS
EMMERTS
GRUNDY CENTER
CONRAD
TRAER
CHAPMAN
DYERSVILLE AWYS
CARROLL
JEFFERSON
AMES
NIEDERHAUSER
SAXON
McVILLE
HUNTER
CEDAR RAPIDS
MOLINE 224 (116.1)
IOWA CITY 248
MELBOURNE COM
MELBOURNE
AUDUBON AWYS
ADAMSON AWYS
GUTHRIE CENTER
DODGE
NEWTON
NIEDERHAUSER AWYS
GRAND
CLINTON
CRAM
IOWA CITY
ADAIR
STUART
EARLHAM
BEAVER
MONROE
258
GREEN 3
MONTEZUMA
PELLA
MUSCATINE
COLUMBUS JUNCTION
WASHINGTON MUN.
MOLINE 278
On request
MOLINE
OMAHA
DRESSLER
DES MOINES 278 (126.18)
DES MOINES 212 (116.1)
BLUE 35
LUCAS
CHARITON
NAS. OTTUMWA 272 (142.74)
OTTUMWA MUN
BURLINGTON 326
MT PLEASANT
VENTURE
SEYMOUR
CENTERVILLE
HUMESTON
LEON
MT AYRPORT
UNIONVILLE AWYS
MONMOUTH
GALESBURG
BURLINGTON
HI-WAY
CHICAGO
TERRE HAUTE
LAMONI
IOWA
MO.
EDWARDS
KIRKSVILLE 391
KIRKSVILLE
MACOMB
KEOKOK
CARTHAGE
ST. DAVID
MATANZAS
FORDYCE
VAUGHN
ST. JOSEPH 341
CHILLICOTHE 242
SAVANNAH
OSBORN
ROSECRANS
CHILLICOTHE
CAMERON
BAILEY'S
MARCELINE MUN
LURAY
QUINCY
BEARDSTOWN
QUINCY (NEW)
HANNIBAL
NEGUS
JACKSONVILLE
SPRINGFIELD
LEAVENWORTH
LINKVILLE
EXCELSIOR SPRINGS
SLATER
NAPTON
FAYETTE
BRADLEY
KANSAS CITY ST LOUIS
BOWLING GREEN
CHESTERFIELD
SHERMAN AAF 396 (126.18)
FAIRFAX AAF 278 (118.9, 126.18)
INDEPENDENCE
LEXINGTON
MARSHALL
GREEN
JERSEYVILLE
ST. LOUIS 209
FISHER
DE SOTO
HEART OF AMERICA
NICHOLAS
SEDALIA AAF 368
COLUMBIA 379
TO ST. PETERS
KANSAS CITY 359
KANSAS CITY 278 (118.3, 126.18)
MARSHALL 281
On request
TULSA 63 ST. LOUIS 66
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
SCALE OF MILES
25 0 25 50
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'N' QUADRANTS
EXTREMELY HAZARDOUS
USABLE WITH CAUTION

DES MOINES

RADIO — ILLINOIS

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARD, HRS. OF OPER., REMARKS
JERSEYVILLE FM	(-)	FM, 355°,21	St. Louis, Mo.
MOLINE	224(MO)(116.1)	SBRAZ-VDT,142°,12	(4), 116.1
Moline Airport	278	ML, 86°, 2.3	3105 (on req)
IOWA			
BURLINGTON	326 (BN)	SBRAZ-DT,357°,1.8	(4)
DES MOINES	212 (DM)(116.1)	SBRAZ-VDT	(3), 116.1
Des Moines Arpt.	278 (126.18)	C, 344°, 2	(4),116.1,131.9,126.18
EARLHAM FM	(- - - -)	FM, 258°, 26.3	Des Moines
IOWA CITY	248 (IX)	BHT	(4)
LUCAS FM	(- - -)	FM, 164°, 27.2	Des Moines
MASON CITY	227 (NM)	MHT	(4) oper cont.
MONROE FM	(- -)	FM, 78°, 23.5	Des Moines
MONTEZUMA(Int)	278 (MZ)	MHT	(4)
OTTUMWA NAS	272 (142.74)	CN	(3), 142.74
KANSAS			
FAIRFAX (Kansas City)	278 (126.18) (118.9)	C	(4),126.18,131.9,118.9
SHERMAN (Ft. Leavenworth)	396 (126.18)	CA	(3),126.18 cont.except Sun.(23-7)
MINNESOTA			
ROCHESTER	236 (RR)	BMRLZ-DT,350°,2.5	(4)
MISSOURI			
CHILLICOTHE(Int)	242 (CK)	MHT	(4)
EXCELSIOR SPRGS FM	(-)	FM, 52°, 27	Kansas City
KANSAS CITY	359 (KC)	SBRAZ-DTX	(4)
Kansas City Arpt.	278 (126.18) (118.3)	AC (ILS),148°,3	(4), 116.1,131.9,126.18, 118.3
KIRKSVILLE	391 (KR)	BMRLZ-DT,333°,0.9	(4)
LINKVILLE FM	(- - - -)	FM, 328°, 11.4	Kansas City
MARSHALL (Int)	281 (MH)	MHT	(4)
ST. JOSEPH (Rosecrans)	341 (ZJ)	SBMRLZ-DT,359°, 3.7	(4)
WISCONSIN			
LA CROSSE(Int)	371(LE)(116.1)	SBRAZ-VDT,127°,1.8	(4), 116.1
LONE ROCK (Int.)	278(LK)(116.1)	BMLZ-VDT,98°, 0	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
KANSAS CITY, MO.	109.9	333.8	171° Mag	IM ·····(.01)	MM	OM -- (4.65)	
					HHK 221----(2.6)	OMK 248---(11.0)	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ILLINOIS

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Carthage	1.5 SSW,RR E	665	19	Pole line NE, E.
★ Chesterfield Int. 4, LS-CG	3 ENE,hwy N	612	26 L3	
Galesburg	1.7 NW,RR SSW	788	27h L3 S6	80 oct.Fld lgts prior req.Trees SW, NE.
Hi-Way(Flatt)	1.3 NW,RR E	665	20 S1	80 oct.35'poleline S,E.
Jacksonville	3.9 S,hwy E	650	19 S4	80 oct.Trees SW.
Macomb	2.4 E,hwy E	695	23 S6	73,80 oct. No sto.
Matanzas(Havana)	4 S,riv W	480	24 S2	80 oct.Data not verif.
MOLINE	4 S,hwy E	590	40h R1 L3 S6	73,80,91,100 oct.
Monmouth	1.5 NNE,rd E	770	31 L1 S6	80 oct.Poleline E,W,S.
Negus(Alexander)	2.8 WNW,RR SE	645	22	PRIVATE.
Quincy	2.8 SE,hwy E	650	26 S4	80 oct.
St. David	1.5 SW,hwy N	628	22 S2	80 oct.Lgt acft only.
Beardstown	1.5 SE;UR N,W		18 S2	80 oct. Data unverified.

IOWA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adair	1.5 SSE,RR NW	1100	18 S1	Ltd 73 oct.Trees S.
Adamson Airways	4.8 WSW,hwy N	1000	17 S6	80 oct. (Perry)
Ames	2.5 SSW,RR NW	920	28 S6	80 oct.Lgt acft only.
Armstrong	3.2 NW,hwy S	1250	22 S1	Ltd 80 oct.Trees E.
Audubon Arwys	1 SSE,RR W	1300	15 S1	80 oct. (Audubon)
Beaver	3.4 NW	900	25 S6	80 oct. (Des Moines)
Bellevue	3 N,RR W	652	19 S1	80 oct.
(P)BURLINGTON	1.7 SSW,hwy E	698	54h R1 L5 S6	80,91,100 oct.
Canfield(Waterloo)	3.5 NW,RR NE	800	32 S6	87 oct.Pole line N
Carroll	4.2 ESE,RR N	1196	34 S2	80 oct.
(P)Cedar Rapids	6.7 SSW,RR E	860	55h L5 S1	80, 91 oct.
Centerville	3.5 SSW, RR N	1017	25 S2	80 oct.Use strips only.
Chapman(Waterloo)	5 E,RR NW	870	33 S6	80 oct.Poleline S.
Chariton C.A.P.	2.3 NNE,RR SE	1050	16 S1	80 oct.
Clarion	1.1 NW	1162	27 S6	80 oct.
Clermont	0.8 S,riv W	800	21 S6	80 oct.Poleline SE,NE.
Clinton	6.2 WSW,RR S	700	27 S6	80 oct. No sto.
Columbus Jct.	3 N,RR E	580	28 S2	80 oct.Poleline N,E,NE.
Conrad	3 WNW,RR S	1000	23 S2	80 oct.27' bldg E.
Cram (Davenport)	2.5 NW,RR SW	646	21 S6	80,91,100 oct.
Creston Arwys	1.6 NE, RR W	1320		UNUSABLE.(NC)
(A)DES MOINES	4.5 SSW,RR W	950	52h R2 L5 S4	80,91 oct.
Dodge (Grimes)	3.5 E,hwy,RR E	835	27 S6	80 oct.
Dows	1.5 SSE,RR NE	1144	26 S2	80 oct.
Dressler(Anita)	7 SSE,rd W	1250	17 S2	80 oct.Trees S.
Dubuque	1.9 NE,riv E	602	27 S6	80 oct.Poles SE,NW.
Dyersv'l Arwys (Dyersville)	0.8 S, RR NE	940	16 S1	80 oct.Pwrlines NW,NE
Elliot Fly.Svc.	Adj S	550	Unl. S1	80 oct. (Davenport) (NC)
Emmerts(Eldora)	2.8 NE,lake SW	1000	32 S6	80 oct. Poles NW,SE
Eno(Ft.Dodge)	2.5 E,hwy W	1126	27 S6	91 oct.
(P)Estherville	3.5 E,hwy S	1298	35 S6	80 oct.Poles SE,S,SW.
Goodrich&Gross (Strawberry Pt.)	3.5 W,RR NE	1200	19 S1	Ltd 80 oct.
Grand Mound	1.2 SW,RR N	770	20 S2	80 oct. (Grand)
Grundy Center	1.3 ENE,RR S	990	18 S1	80 oct.Pole line S.
Guthrie Center	0.5 NW,riv E	1074	21 S1	80 oct.
Henry's(Floyd)	5 NNE,RR W	1110	14 S1	80 oct.Poles ENE.Steep sloped strips.
(P)Hunter (Cedar Rapids)	3 S, riv N	732	27 L3 S6	80,91 oct.Fld lgts prior req. Poles S, E.
(P)IOWA CITY	1.7 SW, riv E	650	43h R1 L1 S6	80, 91 oct. No sto.
Iowa Falls	4.1 S, RR E	1140	24 S2	80 oct.
Jefferson	0.8 NNW,RR S	1052	23 S6	80 oct.No sto.Poleline
Keokuk	4.6 NNW,riv E	670	27 S1	Ltd 80 oct. N.
Lake City	3.5 NNE, RR S	1200	26 S1	80 oct.
★ Lamoni Int,10, KC-MP	3 WNW, RR NE	1163	37 L3 S2	73 oct.
Leon	4.1 N, RR SE	1050	20 S2	80 oct.
McVille (Mechanicsv'l)	3.2 WNW,RR S	850	30 S6	80 oct. Poles S,W.
MASON CITY	7 W,hwy S	1215	56h R1 L5 S6	80,91,100 oct. Poles SSE
Melbourne	1.5 SW	1000	20 S1	80 oct.Poles N.
Melbourne, com.	0.3 S,RR E	1000	21 S2	80 oct. Pole line E.
★Montezuma Int, 17, OH-CG	3 E,hwy N	953	32 R1 L3	Poles, trees SW. Pwr line N.
Mt.Ayrport (Mt. Ayr)	6.6 N, RR N	1100	21 S1	Ltd 80 oct.Poles N,NE
Mt. Pleasant	2.6 ESE,RR N	727	19 S2	80 oct.
Muscatine	6 SW,RR SE	546	36 L3 S6	80 oct.
Newton	1.5 ENE,hwy S	950	19 S1	80 oct.
Niederhauser	2.3 N, hwy E	990	30 S6	80 oct.(Marshalltown)
Niederhauser Arwys(Grinnell)	4.5 E	1000	26 S2	80 oct.
Ottumwa	3.6 N,hwy W,S	830	32 S6	80, 91 oct.
(N)Ottumwa NAS	6.4 NNW	841	52h R1 L5 S6	73, 91 oct. (N)
Pella	3.5 SE,RR N	877	24 S6	80 oct.
Pocahontas	0.8 E	1216	25	Pole line SW.
Ryan (Emmetsbg)	1.3 W,RR N	1225	18 S2	80 oct.Trees NW.
Sac City	3 SSE,riv W	1160	19 S2	80 oct.
Saxon(Ced.Rpds)	7 NE,hwy S 2	880	31 S6	80 oct.Trees E,SE.
Seymour	2 NNW,RR S	1060	24 S1	80 oct. Hedge S.
Squeeze(Algona)	5 S,riv S	1201	26 S2	80 oct.Pole line NW,W
★ Stuart Int,8,OH-CG	3.5 SE,rd E	1189	31 L3	Pole line NE,E.
Quincy, new (Ill.)	2.5 E	760	54h	Data unverified.

IOWA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Tatro Fly.Svc.	2.6 NW,riv W	918	26 S2	80 oct. (Decorah)
Traer	1 ENE,RR SW	895	18 S2	80 oct.Pole line E.
Venture(Ottumwa)	2.8 SSE,RR W	800	13 S6	80 oct.Polelne N,W,NE
Washington	1.5 SSE,RR NE	769	25 S6	80 oct.
Webster City	3.3 SW,riv E	1100	26 S4	80 oct. No sto.
Wesley	1.5 E,RR N	1250	31 S1	80 oct. Poleline N,S.
KANSAS				
(A)Fairfax (Kans.Cy)	3 NE,RR E	742	65h R1 L5S4	91, 100 oct. (A)
Fisher	1 ESE,RR N	770	26 S6	80 oct.(Edwardsville)
Leavenworth Lecompton	3.6 WSW,RR E	1125	14 S4	80 oct.No sto.Trees, bldg S.
(A)Sherman(Ft. Leavenworth)	1 NNE,RR W	771	60 R1 L5 S4	73, 91, 100 oct. (A)
MINNESOTA				
(P)Albert Lea	2.3 N, RR E	1255	32 S6	80 oct.No sto.Poleline
Amboy	1 NNE, RR W	1000	24 S1	80 oct. N.
Blue Earth	3 S,RR E	1111	23 S1	80 oct.Poleline E.
Decker(Austin)	1.7 E,hwy N	1224	26 S4	73 oct.Obsts sur fld.
Fairmont	3.1 S,hwy W	1190	24 S1	80 oct.Poleline W.
ROCHESTER	1.7 SSE,RR W	1040	43h R1 L4 S6	80,91 oct.Poleline E,N
Sherburn	2 WNW,RRs S,E	1300	21 S2	80 oct.Pwr line ESE.
Tri-Mont	0.9 S,RR W,E	1250	22	(Triumph)
MISSOURI				
Bailey's (Brookfield)	2 WSW,RR N	800	20 S2	80 oct.Pwr line SE.
Bailey's (Chillicothe)	2 SSE,RR W	675	27 S6	80 oct.Poles S.
Bowling Green	1.6 NW,RR E	882	25 S2	80 oct.Poles S,pwrline
(P)Bradley(Moberly)	3 NNE,hwy W	885	37h S6	80 oct.Obsts. SE.
Cameron	2 E,RR NW	1050	21 S4	73 oct.Pwr line N.
★ Chillicothe Int, 7, KC-CG	3 E	781	25h R1 L3	Pole line S,trees SW.
Edwards	1.2 ENE,RR W	920	17 S1	Ltd 80 oct.(Grant City)
Fayette	1.5 S	860	28 S2	80 oct.Data unverified.
Fordyce(Bethany)	4.8 ESE,RR WNW	1050	22 S1	80 oct.
Green(Mexico)	4.3 ESE,RR S	815	36 S6	80 oct.Trees SE.
Hannibal	4.3 WNW,hwy N	735	28 S6	80 oct.Poleline SW.
Heart of America (Kansas City)	4 E,RR E	759	23 S6	80 oct.Poles,trees S.
Independence	5.8 ESE,RR S	825	23 S6	80 oct.Poles S.
KANSAS CITY	2.5 NW,riv W,S	739	52h R3 L6 S6	80,91,100 oct.Poles E,
Kirksville Arpk	Adj SE	927	26 S2	80 oct. dike W.
" 12, KC-CG	7 SE,hwy NE	970	39h R1 L3 S6	91, 80 oct.
Lexington	3 WNW,RR NW	650	33 S6	73 oct.Poleline S,W,SW
★ Luray Int,16,	1.9 ESE,hwy N	727	26 L3	KC-CG
Marceline	1.5 N,RR SE	855	20	Pole line NNE.
★ Marshall Int,7, KC-LS	1.8 S,hwy E	800	39 R1 L3 S2	80 oct.Silo NE corner
Maryville (NC)	2.2 WNW,RR N	1154	25	
Nicholas(Marshall)	3.8 S,hwy W	770	26 S4	80 oct.Pwr line S.
★ Osborn Int,4,	1.5 NW, hwy S	1046	32 L3	KC-MP
Rosecrans	4 NW,riv S	821	60h R1 L5 S2	(St. Joseph)80,91 oct. Fld
Savannah	1.3 E, RR W	1025	13 S1	Ltd 80 oct. lgts on req.
Slater	0.8 NW,hwy SE	850	26	Pole line adj N.
Unionville Arwys	1.5 ESE,hwy NE	1100	24 S2	80 oct.Pole line N.
Vaughn(Trenton)	1.2 NNW,RR E	790	26 S1	Ltd 80 oct.
WISCONSIN				
(A)Camp McCoy(A)	2.6 E Sparta	830	38h	RR W
(P)La Crosse	5 NNW,bet rivs	653	53h L5 S4	80, 91 oct.
★ " Int,23A,	8 NNW,RR NE	667	37 R1 L3	Pole E.(CG-Twin Cys)
★ Lone Rock Int, 15,CG-Twin Cys	2 N,rd W,N	714	39 R1 L3 S2	Ltd 80 oct.Poleline NE
Red Rock (Darlington)	5 SE,RR E		12 S1	80 oct.Data not verif.
Richland Center	6 SSE,hwy W		23 S1	80 oct.Trees E,S.Data not verified.
Shullsburg	0.5 S	1000	18 S1	80 oct.Trees SW.Data not verified.
Sparta-Angelo	2.2 NE,RR E	800	25 S1	80 oct, Poles sur fld.
Tomah	1 E,RR N	970	18 S1	73 oct, 180' hill E.
(P)Wisconsin State Military	1 N, RR SW	915	31h	(Camp Douglas)

RADIO — ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
BRADFORD (Int.)	382 (MQ)	MHT	(4)
CHICAGO	350 (CG)(116.1)	SBRAZ-VDTX,152°,2.2	(3);116.1
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
GLENVIEW (Navy) Glenview NAS	269 (NBU) 236 (142.74) (140.58)	MLZ-DT CN, 140°, 3	(3): 140.58,142.74 (3);142.74,140.58;3117.5 on req.
HARVEY (Rubinkam)	385 (GH)	MLWZ, 90°, 2.2	
JOLIET	257 (JO)(116.1)	SBRAZ-VDT,126°,3.6	(4); 116.1
NEWARK FM	(- - -)	FM, 246°, 49	Chicago
PEORIA	356 (PI)	SBMRAZ-DT,178°,2.3	(4)
ROCKFORD (Machesney)	338 (RD)(116.1)	SBRAZ-VDT, 45°,1.8	(4): 116.1
INDIANA			
LOWELL FM	(. . - -)	FM, 152°, 40	Chicago
McCOOL (Int.)	359 (ML)(116.1)	MHVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen
WISCONSIN			
GENERAL MITCHELL (Milwaukee)	278	C	(4)
GENESEE FM	(- - -)	FM, 279°, 25.3	Milwaukee
KENOSHA FM	(- -)	FM, 178°, 24.7	Milwaukee
MADISON (Truax)	400 (MA)(116.1)	BMLZ-VDT 314°,2.6	(4) :116.1
MILWAUKEE (Gen'l Mitchell)	242(MK)(116.1)	SBRAZ-VDT,352°,2.4	(3); 116.1

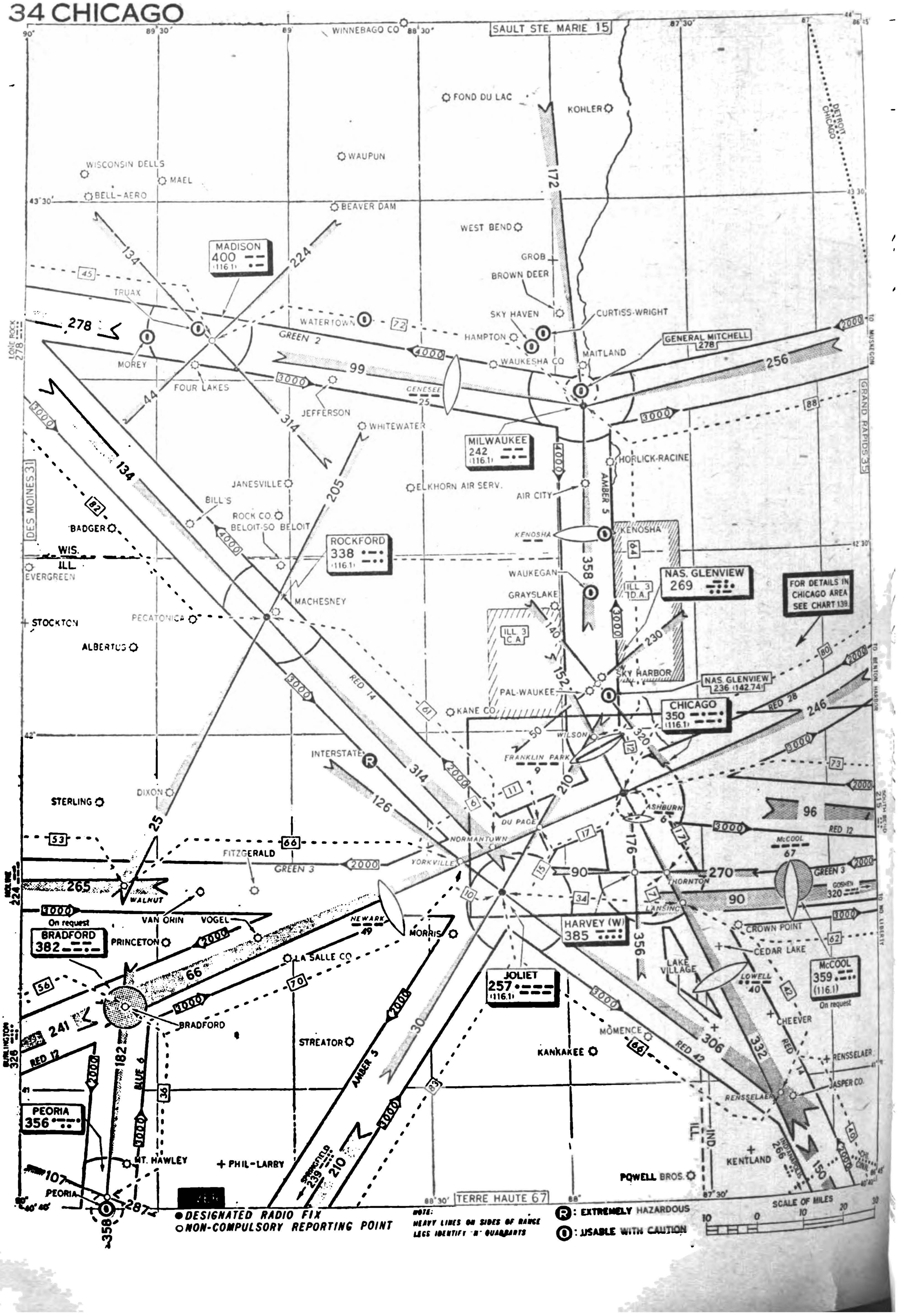
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.,; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ILLINOIS

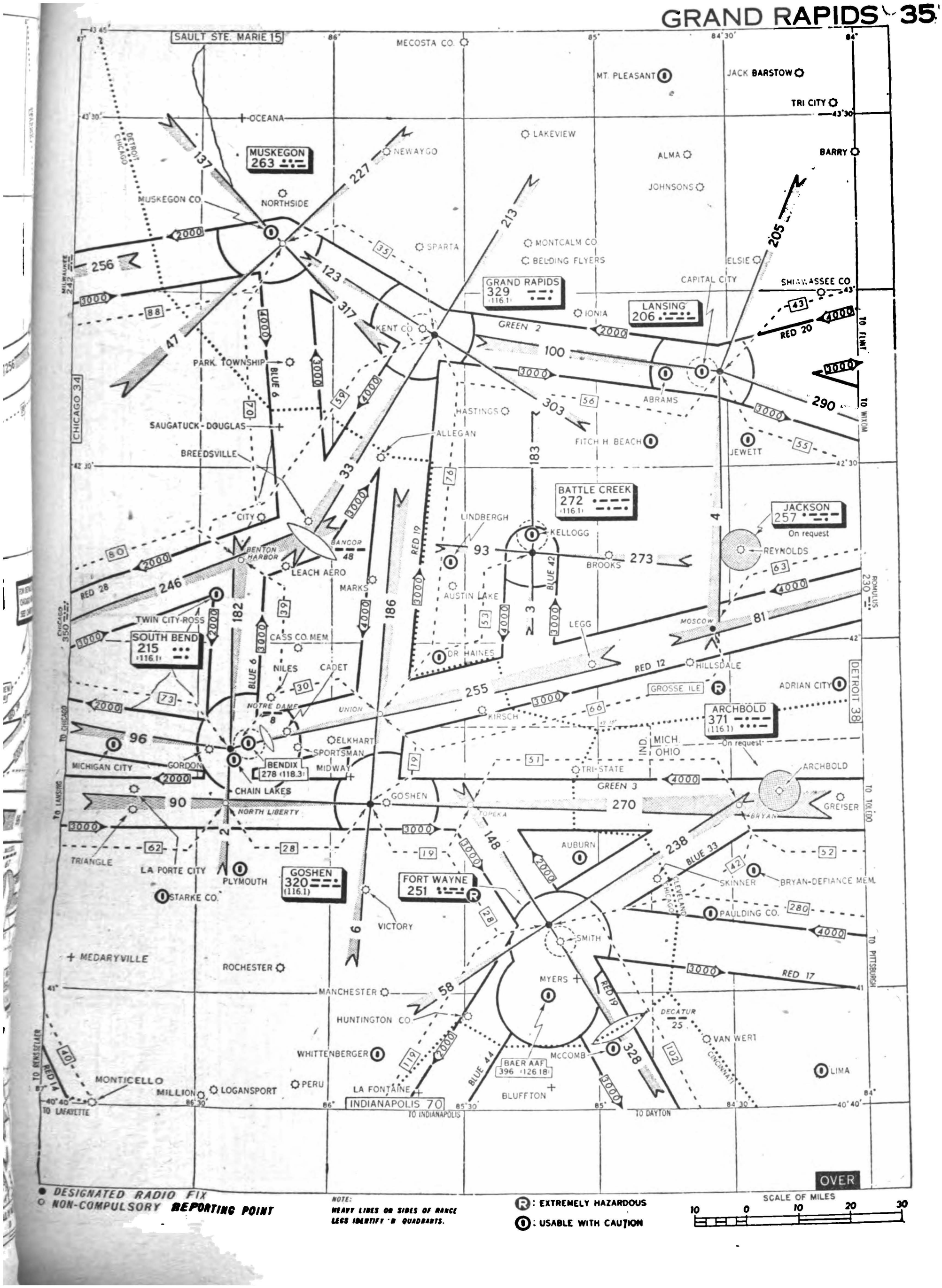
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertus (Freeport)	3.8 SE;RR S,W	740	33 S4	73 oct. Tank S.
Beloit-S.Beloit(S.Beloit)	1 S;RR E	772	35 S6	80 oct.Use strips.Pole line W.
★ Bradford Int,29,KC-CG	4.5 NNE	795	26 R1 L3 S1	80 oct. Pole line SW, NE.
Dixon	1.9 ESE;RR S	786	26 L3 S6	73 oct.No bndry lgts.Poles S,N.
Evergreen (Warren)	1.4 SSE;hwy S	1000	26 S1	80 oct. Trees W.
Fitzgerald (Mendota)	1.5 NW;lake E	800	22 S6	80 oct.Trees E.
(N) Glenview NAS (N)	1.6 NW;RR W,E	654	63h R2 L3 S6	91,100 oct. No sto. NAFC
Grayslake	1.1 ENE;rd W	791	26	Trees W, S, E.
Interstate (De Kalb)	1.8 E;RR W	900	42h	
Kane County (Elgin)	7 WNW;hwy E	910	22 S4	80 oct.Pole line E.
Kankakee	3.2 WSW;hwy E	625	28 S4	73,80 oct.Use strips only.Ditch N.
Kiswaukee(Sycamore)	2.1 SW;rd E	830	18	(NC)
La Salle Co.(Utica)	1.8 NNW;hwy S	619	12 S2	80 oct. Poles NE.
Machesney,7,CG-Twin Cities (Rockford)	6 NNE;riv W	735	29 R1 L4 S6	73,80 oct. Pole line E.
Momence	3.5 SW;riv NW	645	23 S2	80 oct.Trees N,NW,NE.Riv N.
Morris	4.5 N;hwy W	590	21 S2	73 oct.Poles N,NNE.
Mt.Hawley (Peoria)	6.4 N;rds E,S	700	28 S6	80 oct.Pole line S, E.
Pal-Waukee(Glenview)	5.5 WNW;RR S	642	26 L3 S6	80,91 oct. Pole line N
Pecatonica	1 N;hwy E	750	24 S1	73 oct.Poles E.
PEORIA	4.8 WSW;rd E	659	44h R1 L1 S6	80,91 oct.Trees W,bldgs NE.
Phil-Larry (Peoria)	18 ENE		23 S1	80 oct. Data not verified.
Powell Bros.(Sheldon)	2.2 S;hwy NE	650	20 S2	80 oct.
Sky Harbor (Northbrook)	1.6 NW;RR SE	680	26 S6	80, 91 oct.
Sterling	1.4 NW;hwy E	645	25 L3 S4	80 oct.No bcn.Lgts prior req.
Stockton	2.3 SSE	940	18 S1	80 oct.Data not verified.
Streator Air Service	2 ENE;hwy S	650	26 S4	80 oct.Pole line E.
★ Van Orin Int,34,OH-CG	1 ENE;RR S	828	33 L3	Poles W.
Vogel (La Salle)	6.5 NNW;RR E	664	26 S2	80,90 oct.Soft when wet.Poles N,W.
Waukegan	3.5 NW;hwy E	600	22 L1 S5	80 oct. Bldg SE.
Will Co. (Steger)	0.5 S;RR W	740	15 S6	Pole line S. No sto.or fuel.
Princeton	3 N;creek N		18 S2	80 oct.Data unverified.
INDIANA				
Cedar Lake	1.5 NNW;lake E	751	28 S4	73,80 oct.Data not verified.
Crown Point	1 N		30 S1	80 oct.Pole line E.Data not verified.
Jasper Co.(Rensselaer)	1.5 WNW;RR NE	676	28 L3	Pole line S; twr SW.
Lake Village	1 NW;hwy S	650	22 S2	80 oct. Data not verified.
WISCONSIN				
Air City(Sturtevant)	0.6 SE;RR E	633	25 S4	80 oct. Pole line NW.
Badger (Monroe)	1.8 SW;RR N	1080	20 S1	80 oct.
Beaver Dam Inc.	2 N;lake W	914	15 S1	80 oct.
Bell-Aero Service	4 NNW;hwy W	980	21 S4	80 oct. (Baraboo)
Brown Deer(Milwaukee)	10 NNW;RR E	681	20 L S4	80 oct.No sto.Pole lines N.
Curtis-Wright	9 NW;riv SW	750	28 S6	80 oct. (Milwaukee)
Elkhorn Air Service	1.5 N;hwy E	1000	13 S1	80 oct.Rough and rolling.
Fond du Lac	2.6 ENE	769	26 S2	80 oct. 50' hi-line N.Lake WNW.
GENERAL MITCHELL (Milwaukee)	6 S;RR E	675	50h R2 L4 S6	73-100 oct.
Hampton (Marcy)	1.6 W;RR N	860	17	Poles S, trees N.
Horlick-Racine(Horlick)	2 N;RRs E,W	665	25h L1 S6	80,91 oct. Trees N, SE.
Janesville	1.8 NNE;RRs NW	880	26 S4	80 oct.No sto. 51' twr SE.
Kenosha	2 S;RR W	623	29 L S6	80, 91 oct.Flood lgts.
(P) Kohler	1 N;hwy S	647	30 L1 S6	80 oct.Obsts sur fld.
Mael (Portage)	1.6 NW;lake SE	820	26 S6	80 oct.Obsts sur fld.
Maitland(Milwaukee)	3 ESE;hwy W	590	25 S6	80,91 oct. Stack S.
Morey (Madison)	9 WNW;hwy E	928	34 S6	80 oct.30' pole line S.
(P) Rock Co.(Janesville)	4.5 SSW;RR W	807	54h L5 S2	80, 91 oct.
Skyhaven (Milwaukee)	10.5 WNW	800	26 S1	80 oct.Pole line N,trees E, S.
(A) TRUAX(Madison)	5 NE;hwy E	858	60h R1 L5 S2	73,91,100 oct. Fld lgts & svcg not avail.
Watertown	1.2 S;riv W	820	24 S2	80 oct. Bldg W. 0030-0730
Waukesha County	1.8 N;rd jct NW	904	31 S6	80 oct. Pole line S.
West Bend	2.5 E;riv S	880	20 L3 S6	80 oct. Poles sur fld.
(P) Winnebago Co.(Oshkosh)	2 SSW;RR NE	776	50h L1 S4	80 oct.No sto.Pole line NE,N,W.Rnwy unver
Wisconsin Dells-Lake Delton(Lake Delton)	0.8 SE;riv NW	910	24 S6	80 oct.2 hills SW;trees,pole line NW,NE, and SE.
Waupun (Wisc.)	3.5 W;RR E	912	14 S1	80 oct.
Bill's (Broadhead)(Wisc.)	1.8 S;riv S,W	780	23 S1	80 oct.
Jefferson (Wisc.)	1.7 WSW;RR E	800	13	Pole line N.
Whitewater (Wisc.)	2 N;RR S	810	20 S1	80 oct.Poleline E,ENE,ESE;ridge E.
(P) Four Lakes (Madison)	3 SSE;lake N	881	30 S6	80 oct.Obst.lgts prior req. (Wisc.)
Grob (Cedarburg)(Wisc.)	2 W of Grafton; rd S	875	24 S4	Data unverified.
→ Cheever(Demotte)(Indiana)	3 W		29 S1	80 oct. Data unverified.
→ Kentland (Indiana)	6 ENE		19	Data unverified.
→ Rensselaer (Indiana)	10 NE		18	Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page, XIV)(NC)-Not charted. → NEW OR REVISED DATA

34 CHICAGO


SAULT STE. MARIE 15
WINNEBAGO CO
FOND DU LAC
KOHLER
DETROIT
CHICAGO
WAUPUN
WISCONSIN DELLS
MAEL
BELL-AERO
BEAVER DAM
WEST BEND
GROB
BROWN DEER
MADISON
400
(116.1)
TRUAX
SKY HAVEN
CURTISS-WRIGHT
WATERTOWN
HAMPTON
GENERAL MITCHELL
278
MOREY
FOUR LAKES
GREEN 2
WAUKESHA CO
MAITLAND
99
256
JEFFERSON
GENESEE
25
WHITEWATER
MILWAUKEE
242
(116.1)
HORLICK-RACINE
AMBER 5
JANESVILLE
ELKHORN AIR SERV.
AIR CITY
BILL'S
ROCK CO.
BELOIT-SO BELOIT
KENOSHA
BADGER
WIS.
ILL.
EVERGREEN
ROCKFORD
338
(116.1)
NAS. GLENVIEW
269
FOR DETAILS IN
CHICAGO AREA
SEE CHART 139
WAUKEGAN
GRAYSLAKE
MACHESNEY
STOCKTON
PECATONICA
ALBERTUS
SKY HARBOR
PAL-WAUKEE
NAS GLENVIEW
236 (142.74)
CHICAGO
350
(116.1)
KANE CO.
WILSON
FRANKLIN PARK
INTERSTATE
DIXON
STERLING
DU PAGE
ASHBURN
McCOOL
67
FITZGERALD
GREEN 3
YORKVILLE
NORMANTOWN
THORNTON
270
GOSHEN
320
WALNUT
VAN ORIN
VOGEL
NEWARK
MORRIS
HARVEY (W)
385
CROWN POINT
CEDAR LAKE
LAKE
VILLAGE
LOWELL
40
McCOOL
359
(116.1)
On request
BRADFORD
382
PRINCETON
LA SALLE CO
JOLIET
257
(116.1)
BRADFORD
STREATOR
MOMENCE
KANKAKEE
CHEEVER
RENSSELAER
JASPER CO.
PEORIA
356
MT. HAWLEY
PHIL-LARBY
KENTLAND
POWELL BROS.
TERRE HAUTE 67
SCALE OF MILES
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "R" QUADRANTS
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

GRAND RAPIDS 35



RADIO

INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAER, FORT WAYNE	396 (126.18)	CA(ILS)	(3);142.74,126.18
BENDIX, (South Bend)	278 (118.3)	C	(4);118.3,126.18,131.9
DECATUR FM	(- -)	FM, 148°, 24.7	Ft. Wayne
FORT WAYNE (Smith)	251 (FW)	BMRLZ-DT,148°,3.4	(4)
GOSHEN	320(GO)(116.1)	SBRAZ-VDT,89°,2.7	(4); 116.1
NOTRE DAME FM	(- -)	FM, 75°, 8.2	South Bend
SOUTH BEND (Bendix)	215(SN)(116.1)	SBMRAZ-VDT,75°,3.3	(3);116.1

MICHIGAN

BANGOR FM	(- - -)	FM 213°, 48	Grand Rapids
BATTLE CREEK (Kellogg)	272(JC)(116.1)	BMLZ-VDT, 3°, 3.2	(4);116.1
→ GRAND RAPIDS (Kent County)	329(GR)(116.1)	BMRLZ-VDT,302°,2.2	(4);116.1
JACKSON (Reynolds)	257 (JN)	MHT	(4)
LANSING (Capital City)	206 (LJ)	SBMRAZ-DT,280°,3	(4)
MUSKEGON (Muskegon County)	263 (UK)	BMLZ-DT,317°,2.8	(4)

OHIO

ARCHBOLD (Int)	371(YV)(116.1)	MHVT	(4); 116.1

INSTRUMENT LANDING SYSTEMS (*Localizer and G.P. in mcs. Compass Locators in kcs.*)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BAER, IND.	110.3		314° Mag.	IM ·—·— (.05)	MM ·—···· (1.05)	OM — — (4.55)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

INDIANA

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Auburn	1.3 NNW;RR E	872	27 S2	73,80 oct.Trees sur fld.
(A) BAER (FORT WAYNE)(A)	7 SSW;RR E	798	63h R3	INACTIVE
(A) BENDIX (SOUTH BEND)	3.5 NW;hwy S	778	48h R2 L3 S6	80-100 oct.Poleline S,N.
Cadet (South Bend)	6.5 NE;RR E	730	33 S4	80 oct.Twr W;poleline E.
Chain Lakes (South Bend)	5.2 W;hwy N,S	765	22 S3	80 oct.
Culver (NC)	2 E;lake W	815	26	
Elkhart	2.7 NNW;RR S	752	27 S6	73,80 oct.Hedge N.
Gordon (New Carlisle)	2.8 ESE;hwy N	730	13 S1	Fuel avail.Poles E.
Goshen	4.5 SSE;riv SW	823	39 R1 L3 S6	80,91 oct.
Huntington Co.(Huntington)	4 N;hwy E	750	30 S2	80 oct.Trees NE.
La Porte City	2.5 SSW;RR W	801	29 L3 S6	80 oct.Pole line E.
Logansport	4.4 SSW;hwy E	605	27 S1	80 oct.Poles E,N.
McComb (Decatur)	0.9 NW;hwy E	800	20 S4	80 oct.Poles S.
Manchester (No. Manchester)	1.5 W;RR E	752	21	Poles S.
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,W,S.
Million (Logansport)	7 SW;riv 2 N	594	15	Pole S.
Monticello (Chalmers)	3 ENE,RR,hwy W	650	26 S2	80 oct.
Peru	3.5 WSW;riv E	740	38 S5	80 oct.
Plymouth	1.5 NW;RR E	898	32 S4	80,91 oct.Poles W,E.
Rochester	1.5 E;RR N	779	18 S4	73 oct.Lake S.Poles N.
Smith (Fort Wayne)	4.5 N;RR E	831	35h R1 L4 S5	80 oct.No storage.
Sportsman (Mishawaka)	3.7 NE;riv S	760	18 S4	73 oct.No storage.Poles E,S.
Starke Co. (Knox)	1.7 S		26 S3	80 oct.Pole lines sur fld.No storage.Data not verified.
Triangle Air Service (Wellsboro)	2 NNE;hwy S	800	22 S2	80 oct.Poles S,SE,ESE.
Tri State (Angola)	4.2 W;lake W	900	30 S4	73 oct.
Victory (Warsaw)	4 N; RR E	790	24 S2	Ltd 73 oct.Obsts sur fld.
Whittenberger (Wabash)	1.5 NNW;hwy E	770	20 S2	80 oct.
Myers (Ft. Wayne)	4 SE		24 S2	80,91 oct. Pwr lines NE.Data unver.
La Fontaine	5 NE;hwys N,W		19 S4	80 oct.Data unverified.
→ Bluffton	0.2 S		31	Unverified.
→ Medaryville	1.1 NW		24	Unverified.
→ Midway (Goshen)	5 NW		36	Unverified.

MICHIGAN

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Allegan	1.9 E;RR S	701	21 S4	80 oct.Pole line N,E,S,Blocked.
(P) Alma	1.3 NE;riv SE	750	32 S6	80 oct.Poles W.
Austin Lake (Kalamazoo)	8.5 SSE;lake N	860	27 S4	80,91 oct.Poles N
Barry (Saginaw)	3 WSW;riv S	599	19 S4	80 oct.
Belding	2.1 W;RR E	790	27 S4	73 oct.Poles S.
Breedsville Airpark	0.6 WNW;RR E	654	23 S4	73 oct.No Sto.Pole line NE,S,SW.
Brooks (Marshall)	1.3 S;riv N	950	26 L3 S6	80 oct.Trees W,lgtd.
CAPITAL CITY (LANSING)	3.8 NW;RR S	857	42h R1 L4 S6	73,80 oct.
Cass Co. Mem. (Dowagiac)	1 NW;RR SE	760	27 S2	73,80 oct.Pole line E.
City (South Haven)	4 S;RR W	640	30 S4	73 oct.Trees W.
Elsie	0.3 SSE;RR NNE	730	19 SL	80 oct.Pole lines sur fld.
Fitch H. Beach (Charlotte)	1.8 ENE;RR NW	880	25 S6	73 oct.No storage.
Haines (Three Rivers)	2.3 NE;riv SE	820	26 S1	80 oct.Poles N,S.
Hastings	3.2 WNW;RR SW	802	34 S3	80 oct.Pole line N.
Hillsdale	1.6 NW;RR E	1160	19 S4	73,80 oct. No sto.Poles NE,E.
Ionia	3 S;hwy W	810	24 S6	73 oct.Poles NW.
Jack Barstow (Midland)	1.4 ENE;RR S	634	27 S2	73,80 oct.Poles NE.
Jewett (Mason)	1.3 SE;RR W	920	22 S2	73 oct.Poles W.
Johnsons (Ithaca)	1 ENE;RR S	750	17 S2	80 oct.Ltd storage.
KELLOGG (BATTLE CREEK)	3 WSW;RR bed W	936	49h R1 L5 S6	80,91 oct.Fld lgts prior req.
KENT COUNTY (GRAND RAPIDS)	3.5 S;RR NE	681	44h R1 L3 S6	73,80,91 oct.Pole line NW.SE. Radio repairs.
Kirsch (Sturgis)	1 NW;RR E	922	24 S4	80 oct.Poles S.
Lakeview	1.1 NNE;lake S	900	19 S6	80 oct. Poles N.
Leach Aero Service(Hartford)	1 NNW;RR W	664	27 S3	73,80 oct.
(P) Legg (Coldwater)	1.3 NW	982	32 S2	80 oct.Trees E.
(P) Lindbergh (Kalamazoo)	4 SSE;RR E	872	40h S6	80,91 oct.Poles S.
Marks (Lawton)	1 N;RR S	770	25 S4	73,80 oct.Poles W,ENE.
Montcalm Co. (Greenville)	2.5 S;RR E	800	22 S1	80 oct.
Mt. Pleasant	2.2 NE;RR W	755	36 S4	80 oct.
(P) MUSKEGON COUNTY	3.5 S;lake N	627	40h R1 L3 S6	73,80,91 oct.
Newaygo	0.8 SSE;RR NNW	785	20 S1	80 oct.
Niles	1.5 NE;RR NW	740	24 S2	73,80 oct.Trees N,S.
Northside (Muskegon)	5.4 NNE	590	29 S4	73 oct.No sto.Refinery SW.
Park Township (Holland)	3 WNW;bay S	612	27 L4 S6	73,80 oct.No beacon,Lgts prior req
(P) Reynolds (Jackson)	2.5 WNW;RR S	990	40h R1 L5 S4	80,91 oct.No sto.Pole line SE,SW.
St.Joseph Co.(Centerville)	5 SE;RR,hwy N	830	15	Pole line N,trees W. (NC)
Shiawassee Co. (Owosso)	2 E;riv S	740	24 S1	80 oct.Poles sur fld.
Sparta	2.7 SE;RR W	752	25 S4	73,80 oct.Poles sur fld.
Tri-City (Saginaw)	10 NW;RR SW	660	57h	
Twin City-Ross (Benton Harbor)	1.5 NNE;RR S	640	38h S6	73,80 oct.
White Cloud (NC)	0.5 N	872	18	Twr SE;poles E,W.
Oceana (Rothbury)	1 W;lakes NE		30 S2	80 oct. Data not verified.
Mecosta Co.,5,GR-TC	1.5 NW;RR E	928	39 L3 S4	80,91 oct.
Saugatuck-Douglas(Douglas)	2 S;hwy W.		26 S1	73 oct. Data unverified.

OHIO

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
* Archbold Int,18,CG-LG	3.5 NNW;RR N	716	28 R1 L3	
Bryan-Defiance Memorial (Defiance)	5.2 NW;riv E	705	31 S2	73,80 oct.Pole line S,E.
Grieser (Wauseon)	2.5 E;RR N	750	24 S1	80 oct.
(P) Lima	4 WNW;RR N	830	42 S6	80,91 oct.Pole line N.
Paulding County (Paulding)	2.5 NE;RR W	720	26 S2	80 oct. Poles S.Data not verif.
Skinner (Hicksville)	1.6 NNW;RR S	810	26 S1	73 oct.Obst sur fld.
Van Wert	1WSW;hwy S	785	26 S6	80,91 oct. Poles N,S,NW,NE

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISHOP (Flint)	278	C	3105,4495,3117.5
DETROIT CITY (Detroit)	278	C	(4)
DETROIT NAS	269(142.74)	CN	(3);142.74 (8-17)
DETROIT	201 (D)	K; 329°,2.2	Detroit City Arpt.
FLINT	335 (FN)	MHT	(4)
ROMULUS	230 (DT)	SBRAZ-DT	(4)
Romulus AAF	219 (126.18)	CA(ILS);86°,2.5	(4); 126.18
SAGINAW	212 (SI)	MHT	(4) (6-22)
SALINE FM	(- - -)	FM, 261°,20	Romulus
SELFRIDGE (Mt.Clemens)(Army)	388 (DLD)	SBMRAZ	(3); 126.18
Selfridge Field	396 (126.18)	CA(ILS);119°,2	(3) only
WIXOM FM	(- - - -)	FM, 344°,20	Romulus
YPSILANTI (Willow Run)	414 (DYP)	MH; 360°,0.5	Oper cont.
Willow Run Airport	332	CI	(4) (8-24)
OHIO			
AKRON	362 (AX)	BMRLZ-DT	(3)
Akron Airport	272 (126.18)	C; 45°,0.4	(4);116.1,131.9,126.18
AKRON LFM	(-)	LFM, 45°,4.5	Akron
AVON LAKE LFM	(- - - -)	LFM, 325°,8.1	Cleveland
BOWLING GREEN FM	(- - -)	FM, 201°,10.3	Toledo
BRECKSVILLE FM	(-)	FM, 100°,13	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX,100°, 0.7	(3)
ELYRIA FM	(- - -)	FM,280°,10.9	Cleveland
FINDLAY	209 (JF)	MH	(4)(cont.)
HAYESVILLE (Int.)	329 (HA)	BMHT	(4)(cont.)
HOMERVILLE FM	(. . -)	FM, 31°,83	Columbus
NORTH ROYALTON LFM	(- -)	LFM,145°,10.8	Cleveland
PERRY (int.)	332(PE)(116.1)	MHVT	(4); 116.1
PORT CLINTON	275(PY)(116.1)	MHVT	(4); 116.1
TOLEDO	239(TL)(116.1)	SBMRAZ-VDT	(3); 116.1
Toledo Airport	263	C; 10°,2.7	(4)
VERMILION FM	(. - - - -)	FM, 280°,26	Cleveland

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ROMULUS AAF, MICH.	109.9		50° Mag.	IM (.07)	MM ·····(.98)	OM --(4.27)
					MMK	OMK
SELFRIDGE, MICH.	109.5	332.6	184° Mag.	IM (.23)	MM ·····(.81)	OM --(4.31)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MICHIGAN

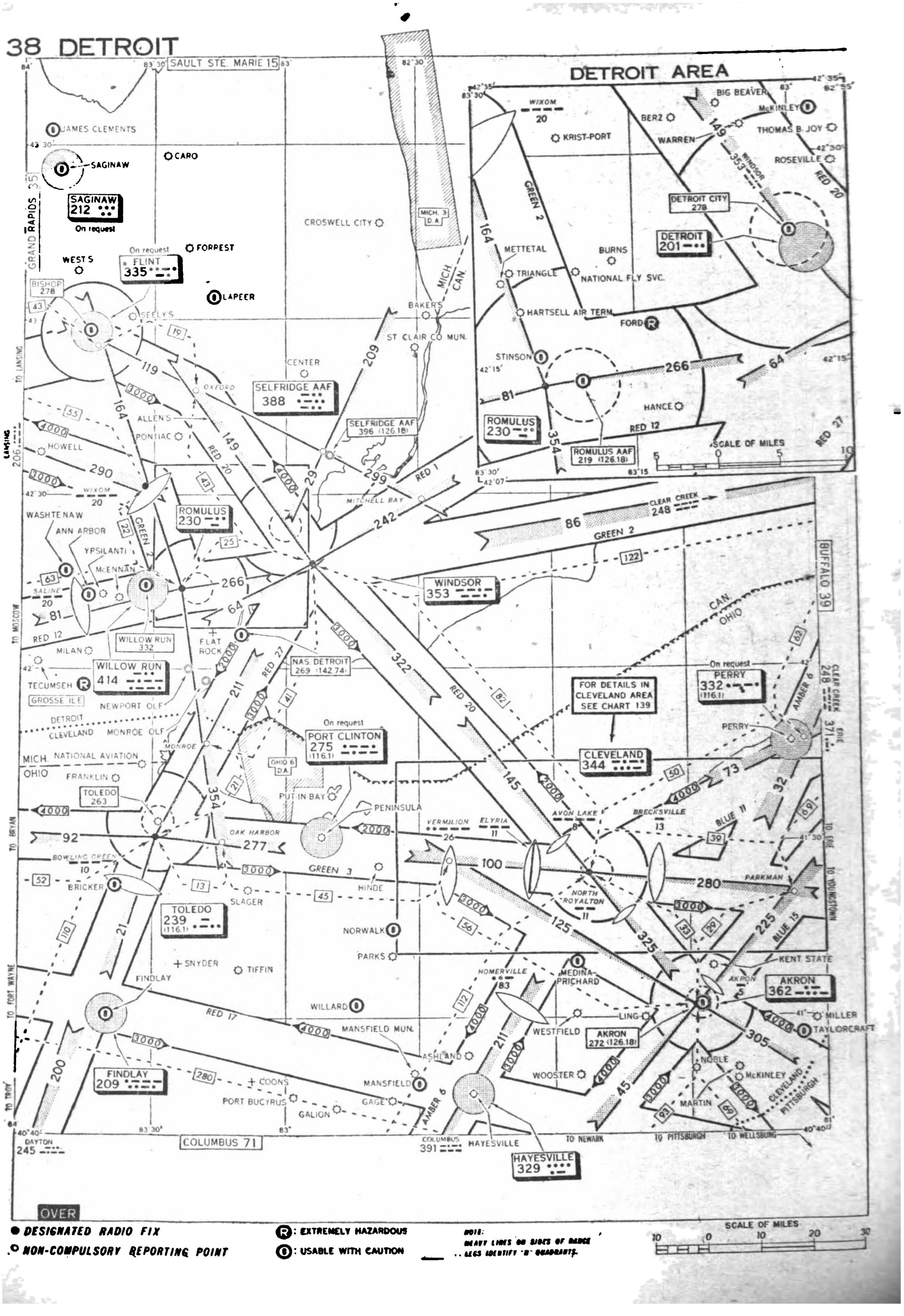
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen's (Pontiac)	5.5 NNE; RR W	1020	26 S6	80 oct. Trees S, SW, SE.
Ann Arbor	4 S; RR E	835	28 L2 S6	80 oct. Trees NE.
Baker's (Port Huron)	3 NNW; RR NNE	585	24 S6	80 oct. Poles N, S, NE.
Berz (Birmingham)	1.5 E; RR SW	700	25 S1	73,80 oct. Pole line N.
Big Beaver	0.8 E; hwy W	650	21 S4	80 oct. Pwr line N.
(P) BISHOP (Flint)	4 SSW; RR NW	781	50h R2 L5 S5	80 oct.
Burns (Detroit)	8.5 WSW; RR N	625	19 S6	73 oct.
Caro	3 WSW; RR SE	699	22 S2	80 oct.Poles E.
Center (Armada)	2.3 W; RR S	666	25 S1	80 oct. Pole line NNE.
Croswell City	1 W; RR,riv E	732	25 S2	80 oct. Trees S, E. Rcv req.
(N) Detroit NAS (N)	17 SSW	594	47h R1 L5 S6	91,100 oct. ARPT OF ENTRY
DETROIT CITY (Detroit)	5.5 NE; RR S	625	53h R1 L4 S6	73,80,91 oct.Tank W side.
Ford (Detroit)	8.8 SW; RR N	600	37h	PRIVATE.
Forrest (Fostoria)	2.4 S; riv SE	830	26 S1	80 oct. Pole line sur fld.
Hance (Wyandotte)	2.5 W; hwy W	590	33 S6	73 oct. No sto.
Hartsell Air Term.(Wayne)	3.5 NW; RR E	675	18 S6	80 oct. No sto.
Howell	0.8 N lake E	930	20 L1 S1	73 oct.
James Clements (Bay City)	3.5 S; riv S, W	599	36 S4	80 oct.
→ Flat Rock	1 NE	590	28 S1	80 oct. Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

MICHIGAN

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Krist-Port (Farmington)	3.8 N; jct rds	860	27 S6	73,80 oct. Obsts apr fld.
(P) Lapeer	2.4 ENE; RR S	830	32 S6	80 oct. No sto.Poles NW.
McEnnan (Ypsilanti)	2.7 SSW; rd E, S	738	23 S4	80 oct.
McKinley (Fraser)	1.3 NW; RR E	620	27	Pole line E, NE.
Mettetal (Plymouth)	1.5 SSE; RR E	700	23 S6	73,80 oct. Poles N, W.
Milan	3.8 SW; RR SE	705	23 S2	73 oct. Pole line N.
(K) Monroe OLF (Newport)	3.5 SSE; hwy SE	590	29 S4	73 oct. No sto.
Nat'l Fly. Serv.(Detroit)	11.5 WSW; RR N	635	30 S4	73 oct. No sto.Poles NE, NW.
(N) Newport OLF (N)	3 W	608	20h	
Pontiac	6.4 WNW; RR NE	970	21h L4 S6	80,91 oct. Poles S.
(A) Romulus AAF (A)	3 E; RR N	630	61h R3 L5 S6	91,100 oct.Ltd svcg.ARPT OF
Saginaw	4.5 E; RR N	601	33 R1 L4 S4	73,80 oct.Poles S,SE,SW ENTRY
St. Clair Co.(Port Huron)	5.5 SW; hwy S	650	23 L1 S5	80 oct. Poles NE,SE,SW,NW.
Seeley's (Davison)	4 WSW; RR N	780	20 S6	80 oct. No sto. Poles N.
(A) Selfridge(Mt. Clemens)(A)	3 E; lake NE	583	60h R3 L5 S6	73,100 oct. JP-1. Poles E. FOREIGN CLEARING STATION.
Stinson (Wayne)	1.4 SW; RR E	660	25h S1	80 oct. Hi-line N, NE.
Tecumseh	1.8 NNE; RR W	815	26 S6	73 oct. Pole line S.
Thomas B.Joy (Detroit)	13 NE; hwy E	616	24 S6	73,80 oct.No sto.Trees SW.
Triangle (Plymouth)	1.5 ESE; hwy S	700	26 S4	80 oct. 30' poles N.
Warren	1.6 WNW; RR E	625	23 S1	73 oct. Pole line N.
West's (Clio)	4 SW; RR E	690	21 S1	73 oct. Pole line E, NE.
Willow Run (Ypsilanti)	4 E;RR N; riv S	710	74h R2 L5 S1	90,100 oct.Rdo rec req.
Wings (Utica)	2.5 SW; RR E	630	26 S6	73,80 oct.Poles N;stumps NW
Ypsilanti	4.4 WSW; RR NW	840	24 S5	80 oct.Pole E;woods N,No sto.
Roseville	0.5 S;hwy W	610	29 S6	73,80 oct.Poles S,SW.
OHIO				
(P) AKRON	3.4 SE; RR W	1043	44h R2 L5 S4	80,100 oct. No sto.ARPT OF
Ashland	1.8 N	1079	23 S2	73,80 oct. Pole line W ENTRY
Bricker (Bowling Green)	1 NE; RR W	675	30 S4	80 oct.
Coons (Nevada)	0.3 NE; RR S		21 S2	80 oct. Data not verified.
Fenwick (Kellys Island)	1.3 NE	600	18	(NC)
Findlay	1.5 SSW; hwy NW	800	27 R1 L3 S4	80 oct.
Franklin (Toledo)	4.5 WNW; RR S	630	32 S4	80 oct. Pole line all sides.
Gage (Mansfield)	4.5 W; RR SE	1360	13 S2	73 oct.
Galion	1.5 WNW; RR SE	1155	18 S2	80 oct.
* Hayesville Int,27,LV-CV	2.5 WNW; hwy S	1300	30 R1 L3	
Hinde (Sandusky)	2.8 E; RR S	574	30 S6	73oct.Poleline S.ARPT OF ENTRY!
Kent State	2.8 W; RR S	1120	36 S4	80 oct.No sto.Pole line N.
Ling (Barberton)	3 WSW; RR N	1150	30 S6	80 oct. Obsts sur fld.
McKinley (Canton)	2.3 NE; hwy SE	1100	32 S4	80 oct. Poles N,S,E.
Mansfield	3.8 N; RR E	1300	26h L S6	73,80 oct. Pole line SW,W.
Martin (Canton)	4 NNE; hwy SE	1080	30 L S6	80 oct. Pole line sur fld.
Medina Prichard (Medina)	3 WNW; RR NW, SE	1060	25 S6	80 oct.No sto.Poles S.
Miller (North Benton)	1.5 W; RR SE	1070	28 S4	73 oct. Poles S.
National Aviation(Toledo)	4.1 NNE; RR E	595	38 S6	91 oct. Pole line S,W,NNE.
Noble (Massillon)	4.5 NNE; hwy W	1080	22 S6	80 oct.No sto. Pole SSW.
Norwalk	0.8 NE; RR W	700	18 S2	73 oct. Pole line W.
→ " Airpark (NC)	2 NNE; RR W	690	29 S2	73,80,91 oct. Poles W, SW.
Parks Airpark (Norwalk)	4.5 S; hwy E, W	880	29 S1	80 oct. Poles E.
Peninsula (Port Clinton)	3.5 E; RR S	587	36 R1 L3	
* Perry Int,4B,CV-A7	2.3 NE; RR S	692	26 R1 L3	Poles E.
Port Bucyrus (Bucyrus)	2 S; RR NW, E	1000	26 S6	80 oct. Poles E. ARPT OF
Put-In-Bay	1.2 SSW	590	16	Poleline NW.PRIVATE. ENTRY.
Slager (Fremont)	2 NW;RR SW	630	19 S6	73,80 oct.No sto.Poleline
Snyder (Fostoria)	1 E; reservoir SSW		32 S1	80 oct.Data unver. N.E.SE.
Taylorcraft (Alliance)	2.5 NNE; RR SE	1170	22h S5	80 oct.No sto.Poles sur fld.
Tiffin	1.9 N;RR W	750	26 S4	80 oct.Poles E.
TOLEDO	8.2 SSE;RR W	621	42h R2 L5 S4	73,83,91 oct.
Wellington	Adj NW; RR W	850	20 S2	80 oct.Stacks NE.Data unver.
Westfield (LeRoy)	1.2 SSE;RR E, S	1039	16 16 S4	80 oct.No sto.
Willard	1.6 SSW;RR NE	960	22 S2	80 oct.Poles W.
(P) Wooster	3 NNE;hwy SE	1150	32 S6	80 oct.Poles S, SE.
Mansfield,mun	5 N	1300	56h S1	73,80,91 oct.
Washtenaw (Ann Harbor)(NC)	5 W		26 S2	80 oct. Hi-line S.Data unver

38 DETROIT


SAULT STE. MARIE 15
JAMES CLEMENTS
SAGINAW
CARO
SAGINAW 212 On request
GRAND RAPIDS 35
WEST S
On request FLINT 335
FORREST
LAPEER
BISHOP 278
SEELYS
CROSWELL CITY
MICH. 3 D.A.
MICH CAN
BAKER'S
ST CLAIR CO MUN.
CENTER
SELFRIDGE AAF 388
SELFRIDGE AAF 396 (126.18)
OXFORD
ALLEN'S
PONTIAC
HOWELL
WIXOM 20
WASHTENAW
ANN ARBOR
YPSILANTI
McENNAN
SALINE 20
ROMULUS 230
GREEN 2
RED 20
RED 1
MITCHELL BAY
CLEAR CREEK 248
WINDSOR 353
RED 12
MILAN
WILLOW RUN 332
WILLOW RUN 414
FLAT ROCK
NAS. DETROIT 269 (142.74)
TECUMSEH
GROSSE ILE
NEWPORT OLF
DETROIT
CLEVELAND
MONROE OLF
MONROE
MICH.
OHIO
NATIONAL AVIATION
FRANKLIN
TOLEDO 263
PORT CLINTON 275 (116.1)
OHIO 6 D.A.
PUT-IN-BAY
PENINSULA
OAK HARBOR
BOWLING GREEN
BRICKER
TOLEDO 239 (116.1)
SNYDER
TIFFIN
FINDLAY
FINDLAY 209
RED 17
WILLARD
MANSFIELD MUN.
MANSFIELD
ASHLAND
COONS
PORT BUCYRUS
GALION
GAGE
AMBER 6
DAYTON 245
COLUMBUS 71
COLUMBUS 391
HAYESVILLE
HAYESVILLE 329
TO NEWARK
TO PITTSBURGH
TO WELLSBURG
TO LANSING
TO MOSCOW
TO BRYAN
TO FORT WAYNE
TO TROY
WINDSOR 353
On request PERRY 332 (116.1)
FOR DETAILS IN CLEVELAND AREA SEE CHART 139
CLEVELAND 344
BUFFALO 39
CAN.
OHIO
AMBER 6
CLEAR CREEK 248
ERIE 371
PERRY
AVON LAKE
BRECKSVILLE
VERMILION
ELYRIA
NORTH ROYALTON
PARKMAN
TO ERIE
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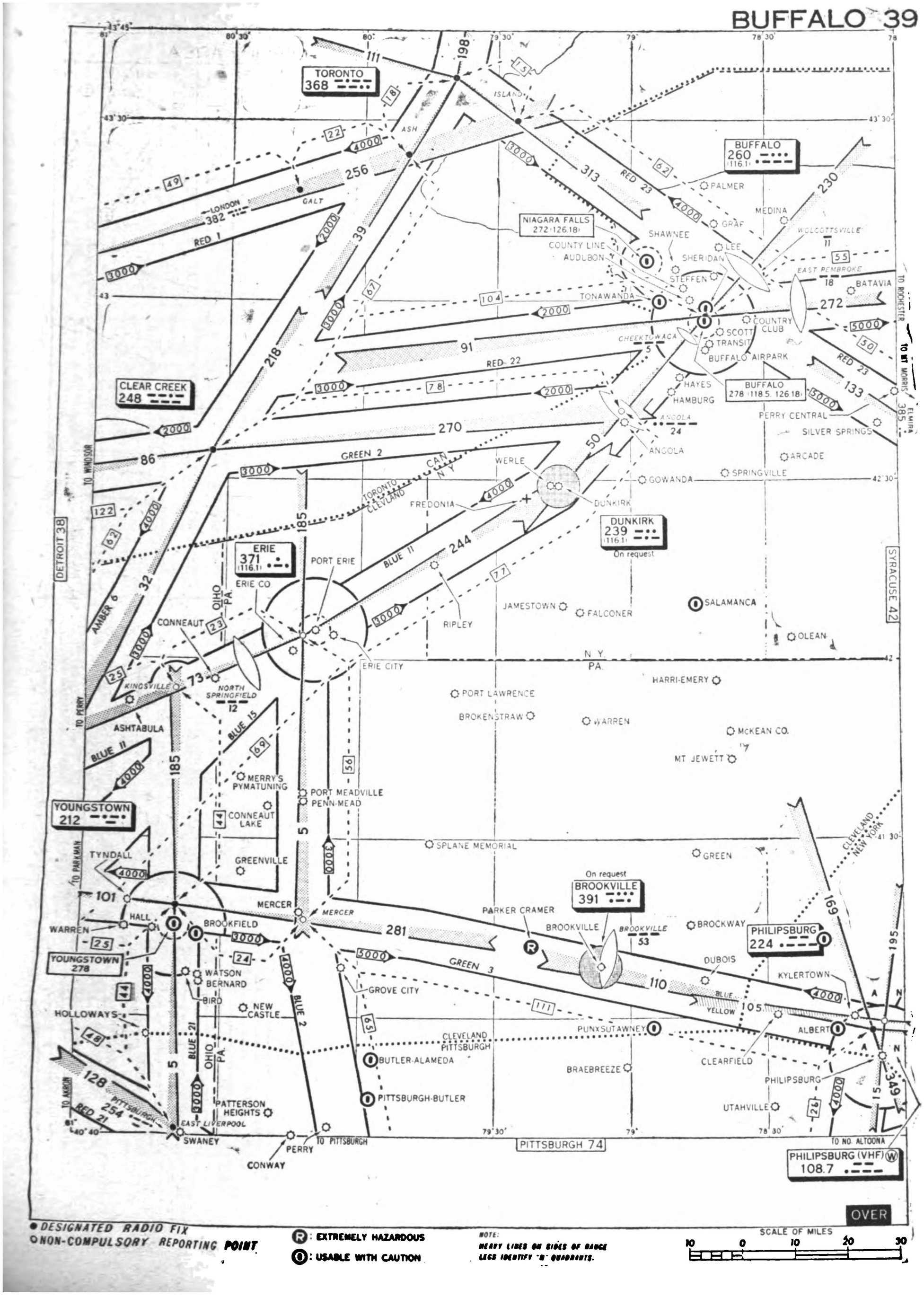
KENT STATE
AKRON
AKRON 362
AKRON 272 (126.18)
MILLER
TAYLORCRAFT
HOMERVILLE
MEDINA-PRICHARD
LING
WESTFIELD
WOOSTER
NOBLE
McKINLEY
MARTIN
CLEVELAND
PITTSBURGH
DETROIT AREA
WIXOM 20
KRIST-PORT
BERZ
WARREN
BIG BEAVER
McKINLEY
THOMAS B. JOY
ROSEVILLE
WINDSOR 353
RED 20
GREEN 2
DETROIT CITY 278
DETROIT 201
METTETAL
BURNS
TRIANGLE
NATIONAL FLY SVC.
HARTSELL AIR TERM
FORD
STINSON
ROMULUS 230
ROMULUS AAF 219 (126.18)
HANCE
RED 12
RED 27
SCALE OF MILES
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES

BUFFALO 39


TORONTO 368
BUFFALO 260 (116.1)
NIAGARA FALLS 272 (126.18)
CLEAR CREEK 248
BUFFALO 278 (118.5 126.18)
DUNKIRK 239 (116.1) On request
ERIE 371 (116.1)
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YOUNGSTOWN 278
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PHILIPSBURG 224
PHILIPSBURG (VHF) 108.7
PITTSBURGH 74
LONDON 382
GALT
ISLAND
ASH
PALMER
MEDINA
GRAF
WOLCOTTSVILLE
SHAWNEE
COUNTY LINE
AUDUBON
SHERIDAN
LEE
STEFFEN
EAST PEMBROKE
BATAVIA
TONAWANDA
COUNTRY CLUB
SCOTT
TRANSIT
CHEEKTOWAGA
BUFFALO AIRPARK
HAYES
HAMBURG
ANGOLA
PERRY CENTRAL
SILVER SPRINGS
ARCADE
GOWANDA
SPRINGVILLE
WERLE
DUNKIRK
CAN N Y
TORONTO CLEVELAND
FREDONIA
PORT ERIE
ERIE CO
OHIO PA.
CONNEAUT
ERIE CITY
N Y PA.
JAMESTOWN
FALCONER
RIPLEY
SALAMANCA
OLEAN
HARRI-EMERY
PORT LAWRENCE
BROKENSTRAW
WARREN
McKEAN CO.
MT JEWETT
KINGSVILLE
NORTH SPRINGFIELD
ASHTABULA
MERRY'S PYMATUNING
CONNEAUT LAKE
PORT MEADVILLE
PENN-MEAD
GREENVILLE
TYNDALL
SPLANE MEMORIAL
GREEN
MERCER
HALL
WARREN
BROOKFIELD
WATSON
BERNARD
BIRD
NEW CASTLE
HOLLOWAYS
GROVE CITY
CLEVELAND PITTSBURGH
BUTLER-ALAMEDA
PITTSBURGH-BUTLER
PATTERSON HEIGHTS
EAST LIVERPOOL
SWANEY
CONWAY
PERRY
TO PITTSBURGH
PARKER CRAMER
BROOKVILLE
BROCKWAY
DUBOIS
KYLERTOWN
PUNXSUTAWNEY
CLEARFIELD
ALBERT
BRAEBREEZE
UTAHVILLE
PHILIPSBURG
TO NO. ALTOONA
CLEVELAND NEW YORK
TO WINDSOR
TO PARKMAN
TO PERRY
TO AKRON
TO ROCHESTER
TO MT MORRIS
ELMIRA
SYRACUSE 42
DETROIT 38
AMBER 6
RED 1
RED 22
RED 23
BLUE 11
BLUE 15
BLUE 2
BLUE 21
GREEN 2
GREEN 3
YELLOW
111
198
15
18
22
4000
49
256
3000
313
62
230
2000
39
67
104
55
11
272
5000
50
91
218
78
133
385
270
86
122
24
50
32
23
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73
12
69
44
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185
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281
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110
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169
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128
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41 30
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OVER
● DESIGNATED RADIO FIX
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R: EXTREMELY HAZARDOUS
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NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANGOLA FM	(. . - - -)	FM, 230°, 24	Buffalo
BUFFALO	260(BJ)(116.1)	SBRAZ-VDT	(3); 116.1
Buffalo Airport	278 (126.18) (118.5)	AC;230°,0.9	(4);118.5,126.18,131.9
CHEEKTOWAGA LFM	(- - -)	LFM,230°,4.7	Buffalo
DUNKIRK	239(DK)(116.1)	MHVT	(4); 116.1
EAST PEMBROKE FM	(- -)	FM, 90°, 17.5	Buffalo
NIAGARA FALLS AIRPORT	278 (126.18)	CI	(4);126.18 (7-23)
WOLCOTTSVILLE FM	(-)	FM, 50°, 11	Buffalo

OHIO

YOUNGSTOWN	212 (CT)	BMRLZ-DT	(4)
Youngstown Airport	278	CI; 185°,3.5	(4); (730-2330)

PENNSYLVANIA

BROOKVILLE FM	(- - -)	FM, 290°, 53	Philipsburg
BROOKVILLE (Int.)	391 (BR)	MH	(4)
ERIE (Port Erie)	371(ER)(116.1)	SBMRAZ-VDT,64°,2	(4); 116.1
NORTH SPRINGFIELD FM	(- - -)	FM, 253°, 12	Erie
PHILIPSBURG	224 (MJ)	SBRAZ-DT,169°,5	(4)
PHILIPSBURG	108.7 (MJ)	VARW	

CANADA

CLEAR CREEK, ONT.	248 (QO)	BRAZ-DT	(4),3232.5(N),5632.5 (D)
TORONTO, ONT.	368 (YZ)	SBRAZ-DTX	3105,6210,3117.5

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Angola	1.4 N;RR SE	610	15 S1	80 oct.
Arcade	2 N;RR E,W	1740	22 S4	Ltd 80 oct.No storage.
Audubon (Getzville)	1.7 SSW;RR N,SW	580	19 S6	80 oct.
(P) Batavia	2.4 NNE;rd W	910	30 S6	80 oct.Pole line W.Trees E.
Buffalo Arpk (Gardenville)	1.5 ENE;rd S	680	27 S6	80 oct.
(N) BUFFALO	6.1 ENE;RR NE	712	56h R2 L6 S6	80-100 oct.ARPT. OF ENTRY.
Country Club (Clarence)	2.3 SSE;RR S	800	36 L S6	80 oct.Trees SW.
County Line (No.Tonawanda)	3.4 E;RR SW	577	21 S4	80 oct.
(P) Dunkirk	3 E;RR N,S	692	40h R1 L5 S2	80 oct.
Erie Co.Aero Park (Hamburg)	3.5 WSW;RR E,W	750	18	Pole line S.UNUSABLE.(NC)
Falconer	1.3 NNE;RR S	1250	22 S4	80 oct.Obsts sur fld.
Fredonia	3.5 W;RR SE		27 S2	80 oct.Pole line N,NE,E.
Gowanda	1.4 NNW;crk W	760	22 S6	80 oct.No storage.
Graf (Lockport)	2.8 N;RR S	380	15 S6	80 oct.
Hamburg Airpark Inc.	2 NNW;RR,hwy W	722	23 S2	80 oct.Pole line NE.
Hayes (Blasdell)	0.7 SSE;RR E,W	723	20 S4	80 oct.No storage.
Jamestown	4.1 N;hwy E	1719	27h S6	80 oct.Trees S.
Lee (Lockport)	1.8 SSE;hwy N	640	18h S2	80 oct.Pole line N.
Medina	2 W;RR S	500	21 S1	80 oct.Obsts sur fld.
(P) Niagara Falls	4 E;RR N	587	55h R1 L5 S4	80-100 oct.JP-1.No sto.ARPT OF
Olean	1.8 SE;RR N	1440	22 S6	80 oct.Trees W,N;hill S. ENTRY
Palmer (Olcott)	1.2 SSW;RR S	315	17 S2	73 oct.Pole line E.
Perry Central	1.7 NNW;lk SSW	1400	23 S1	80 oct.Pole line,trees N,E.
Perry Fly.Service (Perry)	3.3 W;RR W	1640	21	Pole lines NNE.(NC)
Ripley	1.4 WNW;lake N	650	22 S4	80 oct.No storage.
Salamanca	1.6 W;RR N,S	1370	12 S6	80 oct.
Scott (Lancaster)	1.5 E;RR N,S	680	22 S1	80 oct.Pole line SW.Rnwy data
Shawnee Flying Service (North Tonawanda)	4.5 NNE;riv SE	580	33 S6	80 oct.Pole line E,W unverifie
Sheridan (Williamsville)	2.5 NE;hwy SE	640	38 S6	80 oct.No storage.
Silver Creek (NC)	1 WSW;hwy SE	720	11	Trees E, NW.
Silver Springs	0.5 E;lake NE	1420	15 S1	80 oct.
	7.3 NW	570	103 S6	80 oct. Ramp; all facs.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted.

→ NEW OR REVISED DATA

NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Springville	1.5 NE;RR W	1395	26 S4	80 oct.Pole line N,E.Rnwy info
Steffen (East Amherst)	3.5 N	582	22 S6	80 oct.Obsts sur fld. unver
Tonawanda	3 SSW;RR E	610	30h S4	80 oct.Rough.Obsts sur fld.
Transit (Depew)	2 SSW;RR N	670	13 S2	80 oct.Trees,bldg E.
Werle (Dunkirk)	1.8 ENE;RR N,S	640	22 S1	80 oct.Poles,trees sur fld.
Westfield(NC)	1.5 WSW;hwy N	758	18 L1	S blocked.

OHIO

Ashtabula	3.1 W;lake N	621	17 S2	80 oct.
Barnard (Youngstown)	3.4 E;lake NE	1140	28 S6	73,80 oct.Pole line N,S,W.
Bird (Youngstown)	2.6 NE; RR W	1000	22 S4	80,91 oct.Pole line W,N.
Brookfield	0.8 W;RR W	1130	20	Poles N,E.
Conneaut	2 ESE;hwy S	670	18 S1	80 oct.
Hall (Warren)	3.5 ENE;RR NW	900	26 S2	73,80 oct.Poles E.
Holloways (Greenford)	1 ENE;RR W	1250	15 S1	80 oct.Wires E.
Sky Harbor (Williamsfield)	1 S;hwy E	1140	26	Poles E. (NC).
Swaney (East Liverpool)	4.9 NW;crk SE	1170	22 S2	80 oct.
Tyndall (Warren)	6 NNW;RR E	940	30 L1 S4	80 oct.No storage.
Warren Airways	2.3 WNW;RR S,E	900	22 S2	73 oct.Trees S.
Watson (Youngstown)	3.8 E;lake S	1080	17 S2	Ltd 73,80 oct.
YOUNGSTOWN	11 N;hwy E	1178	39h R2 L5 S6	73,80,91 oct.

PENNSYLVANIA

Albert (Philipsburg)	2.3 ENE;rd N	1630	31 S2	80 oct.Pole line S,E.
Braebreeze (Marchand)	0.3 N;RR NW	1650	18 S2	80 oct. Trees N,NE.
Brockway	1.3 NE	1700	18	
Brokenstraw (Youngsville)	2.6 W;RR S	1230	17 S4	73 oct.
★ Brookville Int,45A,CG-LG	2 WSW;RR E	1416	30 R1 L3 S1	80 oct.
Butler-Alameda (Butler)	3.4 WNW	1340	24 S6	80 oct.Pole line E.
Clearfield	1.5 WSW;RR SE	1220	20 S1	80 oct.Pole line NE.
Conneaut Lake	1.7 WSW;hwy SE	1250	18 S2	80,91 oct.Pole line SE end.
Conway	0.7 N	950	24 S4	80 oct,Hill N,Rnwy data unverif,
Dubois	1.7 ESE;RR NE	1575	30 S6	80 oct.
Erie City (Kearsarge)	0.5 W;hwy E	900	29 S6	80 oct.Pole line SE.
Erie County (Erie)	11.6 SW;hwy N	805	24 S6	80 oct.Poles N,E,S.
Green (Ridgeway)	3 NW;hwy,RR E	1720	21 S2	No fuel.Trees NNW.
Greenville	2.3 W;RR E	1180	17 S2	80 oct.Pole line S.
Grove City	2.1 SSE;RR E	1275	19 S4	80 oct.
Harri-Emery (Bradford)	2.3 WSW;RR E	1490	20 S4	80 oct.
Kylertown	1 WNW	1660	40 S4	80 oct.Trees S,WNW.
McKean County (Bradford)	11 S;RR SW	2140	45h	
Mercer	4.8 NNE;RR W	1300	20 L1 S6	80 oct.
Merry's Pymatuning (Linesville)	1.5 NW;RR E	1200	21 S2	73 oct.Pole line NNE.
Mount Jewett	0.8 ESE;hwy N	2240	19 S4	80 oct.
New Castle	4 WNW;hwy SE	1080	29h S5	80 oct.
Parker Cramer (Clarion)	1ENE;riv N	1480	18 S1	80 oct.
Patterson(Beaver Falls)	1.5 S;RR,riv E	1020	26 S4	80 oct.
Penn-Mead (Meadville)	3 SSW;hwy E	1365	20 S2	73 oct.
Perry (Mars)	5 E;hwy E	1060	16 S6	80 oct.No sto.Pole line E.
Philipsburg,Site 51A,CG-LG	7 E;hwy N	1940	30h R1 L3 S1	80 oct.
Pittsburgh-Butler (Butler)	6.7 SSW;hwy E	1235	49 L1 S6	80 oct.
PORT ERIE (Erie)	6 WSW;RR SE	735	46h R1 L5 S6	80,91 oct.
Port Lawrence (Corry)	1.2 S;RR N	1745	23 S2	73 oct.Pwr line NW.
Port Meadville (Meadville)	3.4 W;hwy S	1400	32h L4 S6	80 oct.
Punxsutawney	3 NE;hwy S	1470	22 S2	Ltd 80 oct.Pole line ESE,S.
→ Splane Memorial (Oil City)	4.1 NNW;hwy E	1490	22h S4	80,91 oct.
Utahville	1N;RR S	1800	22 S2	Ltd 73 oct.
Warren	2 WSW;RR N	1100	23h S4	80 oct.

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS,GUARDED,HRS. OF OPER., REMARKS
DANSVILLE	212(DA)(116.1)	MHVT	(4); 116.1
ELMIRA (Chemung Co.)	385(EA)(116.1)	SBRAZ-VDT,75°,1.8	(4); 116.1
ROCHESTER	206(RC)(116.1)	BMRLZ-VDT	(4);116.1
Rochester Airport	278	CI;298°,2.2	3105,4495 (8-24)
ROME AAF	396 (126.18)	CA	(4); 126.18 (8-20)
SYRACUSE	350(SR)(116.1)	SBRAZ-VDT	(3);116.1
Syracuse Airport	278	C.; 178°, 2.2	(4)
TRI-CITIES (Endicott)	278	CI	3105(days)
UTICA	359(UA)(116.1)	BMRLZ-VDT,151°,3.0	(4);116.1
PENNSYLVANIA			
ALLENTOWN (Allentown-Bethlehem)	320(XA)(116.1)	SBMRAZ-VDT,192°,2.7	(4); 116.1
LAKE CARE FM	(- - - -)	FM, 359°,20.8	Wilkes-Barre
SLATINGTON FM	(- - - -)	FM, 290°, 12	Allentown
SUNBURY	353(SV)(116.1)	MHVT	(4);116.1
SUNBURY	108.3 (SV)	VARW	
WILKES-BARRE (Wilkes-Barre-Wyoming Valley Airport)	272 (WI)	SBMRAZ-DT,243°,2.6	(4)
WILLIAMSPORT	233 (IA)	BMRLZ-DT,281°,7.5	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers **in the Frequency Column Indicate VHF** on which **Voice is Available.**

AIRPORTS

NEW JERSEY

AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lake Susquehanna(Blairstown)	2.3 WSW;RR S	380	28 S6	80 oct.
Martins Creek, Belvidere	3 SSW;riv SE	340	25 S6	80,91 oct.Pole line N.

NEW YORK

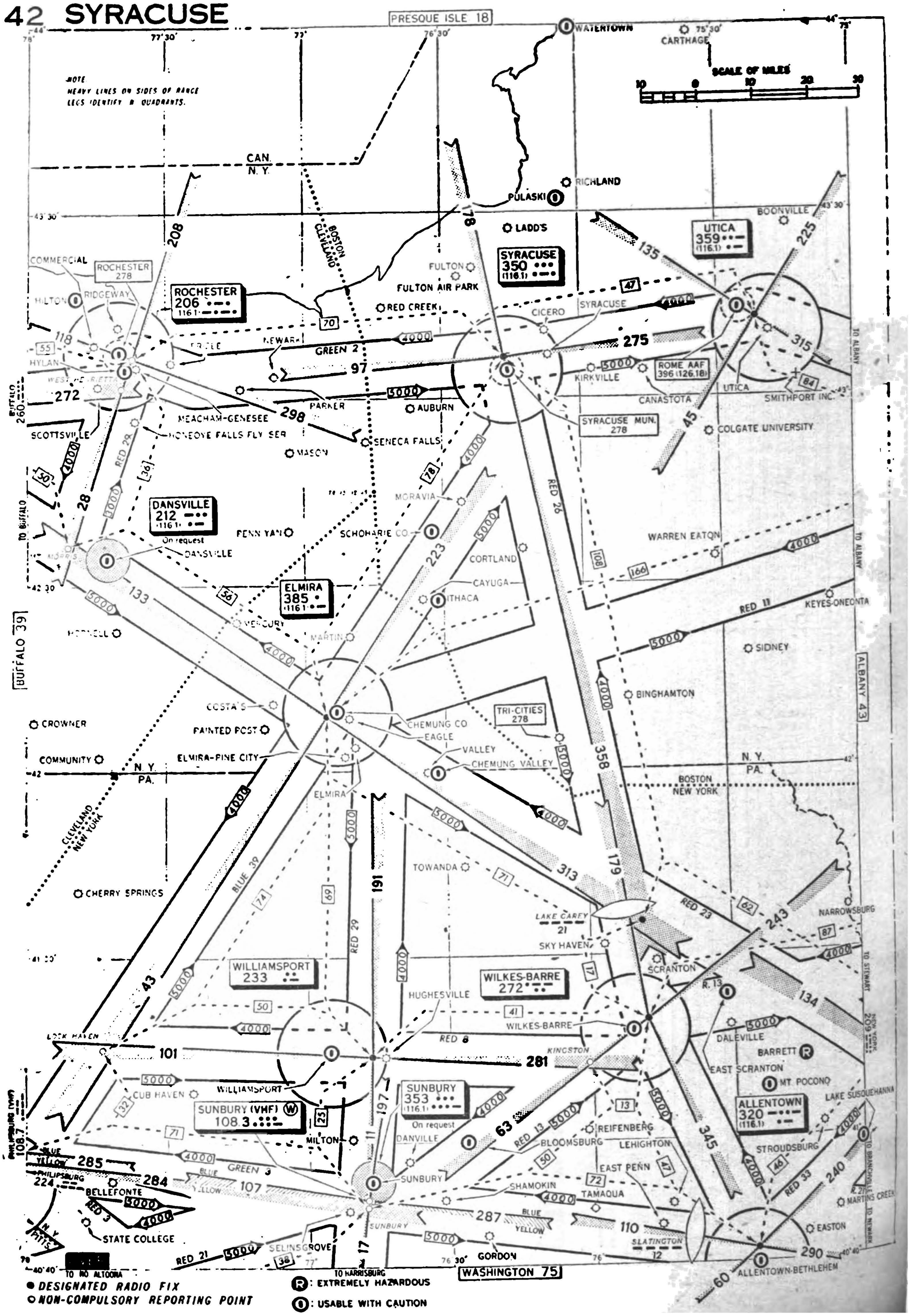
Auburn	3.7 NNW;lake E	525	24 S4	80 oct. Poles,trees sur fld.
Binghamton	7.2 NNE;RR NW	940	18 S2	80 oct.Trees N.
Bonnie Brae (Owasco)(NC)	1.7 SW;RR W	960	17	Cattle on fld.
Brizee (Pittsford)	2 E;RR N	422	25 S4	80 oct.Pole line S,NW.
Canastota	1.3 WSW;RR N	540	22 L1 S1	80 oct.
Carthage	1 E;RR NW	740	20 S1	80 oct.
Cayuga (Ithaca)	3.8 WNW;hwy E	1280	23 S1	80 oct.Pole line E.
CHEMUNG CO. (ELMIRA)	6.5 NW;RR S	951	40h R1 L5 S4	80,91,100 oct.
Cicero	0.5 NW;lake SW	416	21 S4	80 oct.
Colgate Univ. (Hamilton)	5.4 N;RR W	1178	25 S6	80 oct.
Commercial (Rochester)	7.3 WSW;RR S	570	18 S4	80 oct.Pole line W.
Community (Whitesville)	1.3 E;riv 1 N	2180	30	20-40' trees E,W,S.
Cortland	1.8 WSW	1144	30 S6	80 oct.Wooded ridge E.
Costa's (Painted Post)	2.7 NW;RR SSW	960	16 S1	80 oct.Trees W,NW.
Crowner (Wellsville)	1 W;RR E	1506	22 S2	80 oct.Obsts sur fld.
(P) Dansville	1 NW;RR NE	662	40h R1 L3 S6	80 oct.Pole line N.
Eagle Airpark (Horseheads)	1.8 SSW;RR E	900	22 S1	80 oct.Trees S,W.
Fulton	2.6 NNE;rd W	469	40h L2 S4	80 oct.No sto.Lgts prior req.
Fulton Airpark	0.5 W;riv E	360	18 S6	80 oct.12' brush WNW.
Hancock (NC)	1.5 SSE;RR E	905	17	Hills SSE,NNW.
Hilton	2.6 WSW;RR N	325	16 S1	80 oct.3' fence E,S,SE.
Honeoye Falls Flying Svc.	0.8 SW;RR E	700	20 S4	80 oct.Pole lines NE,NNW.
Hornell	3.5 NNW;RR SW	1170	24 S6	80 oct.Wooded hills sur fld.
Hylan (Rochester)	6 S;RRs N,S,W	525	27 S6	80 oct.Trees E.
Ithaca	1.3 NW;inlet E	386	25h S6	80,91 oct.No storage.
Keyes-Oneonta (Oneonta)	1.5 W	1000	27 S4	80 oct.Obsts sur fld.
Kirkville	0.3 W;RR N,W	434	19 S1	80 oct.Pole line E.
Ladd's (Mexico)	0.6 W;RR N	383	20 S1	Ltd 73 oct.Pole line NE.
Martin(Montour Falls)	1 NE;RR W,E	460	13 S4	80 oct.
Mason (Geneva)	3.5 WSW;RR SE	790	19 S1	80 oct.Pole line S.
Meacham-Genesee (Rochester)	6 S;RR N	564	22 L S6	80 oct.Floodlgts in emerg.
Mercury (Hammondsport)	1 WSW;RR N	750	15 S2	80 oct.Hill W.
Elmira	2 SSW;RR E	890	16	Trees adj NE,S.
Elmira-Pine City (Elmira)	4.6 SW	980	14	Trees WSW.

NEW YORK

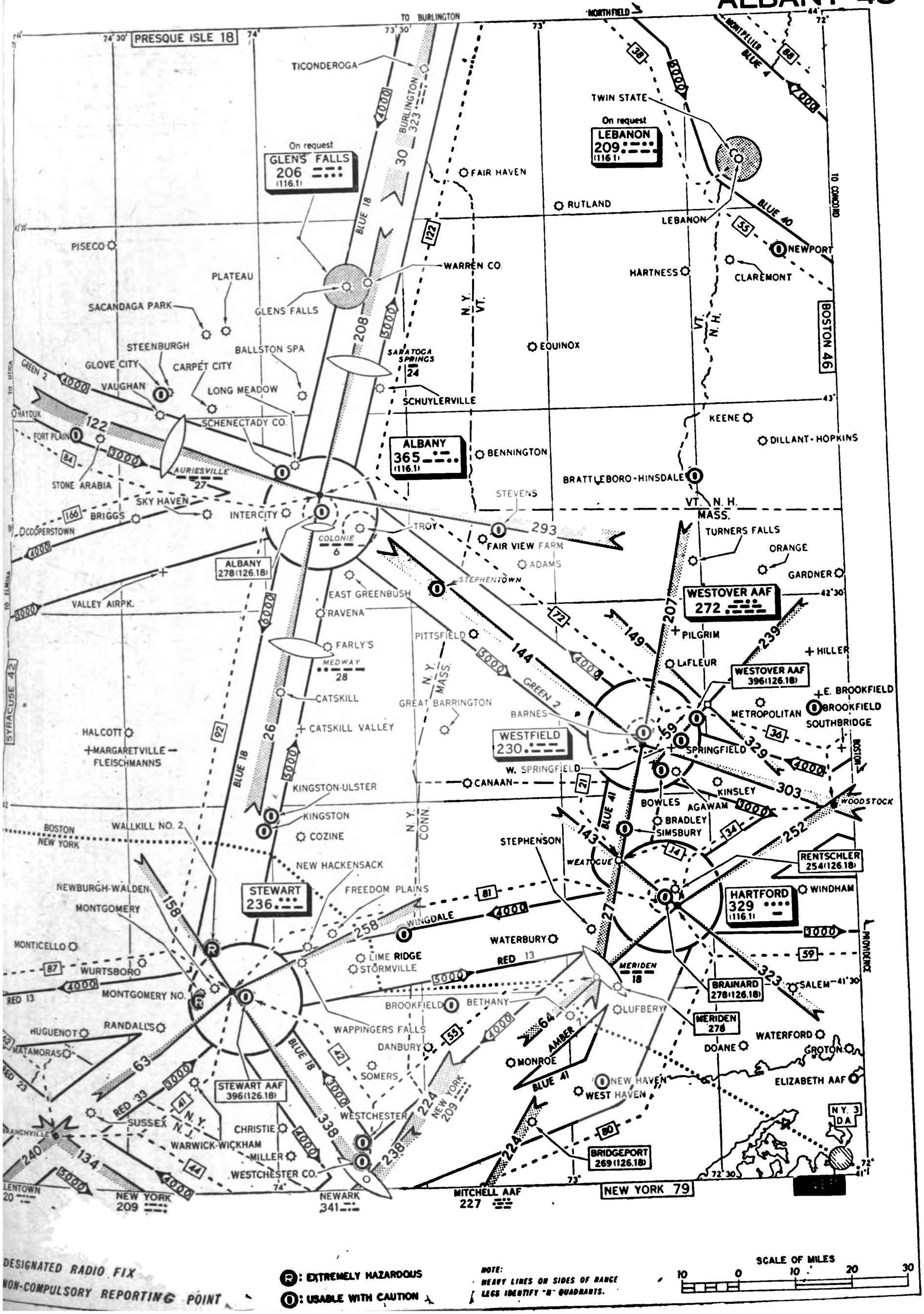
AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Minoa (NC)	0.3 NW;RR SW	430	14	Trees E.
Moravia Air Haven	1 NW;RR E	730	20 S1	80 oct.S appch blocked.
Narrowsburg	0.6 NNE;RR E	700	18 S4	80 oct.Mts N,NE.
★ Newark Int,27A,CV-AZ	1.3 NNW;rd N,E	490	19 L3	Pole N.
Painted Post	4.4 SW;RR W	950	19 S2	80 oct.Trees E,W.
Parker (Palmyra)	2.8 S;RR N	540	15 S1	80 oct.
Penn Yan	1.1 S;lake W	850	20 S2	80 oct.
Pulaski	3 SE;riv N	500	18 S4	80 oct.Trees WSW.
Red Creek	0.8 SSE;RR N	355	18 S1	80 oct.
Richland	0.6 NE;RR SW	560	21 S1	80 oct.Hi-line S.
Ridgeway (Rochester)	3.7 W;canal ESE	530	18 S1	80 oct.Pole lines W,NW,SE.
(N) ROCHESTER	3.7 SW;riv S	549	44h R2 L5 S6	80,91 oct.ARPT OF ENTRY
(A) Rome AAF (A)	2.5 NE	473	63h R1 L5 S6	62,73,91,100 oct.JP-1.
Scottsville	1 N;RR W	600	10	Allway area: 1000 x 1000'.
Seneca Falls	2.2 SE	490	28 S2	80 oct.Obsts sur fld.
Sidney	1 WSW;RR SE	1012	24 S4	80 oct.Pole line S.
Syracuse	3.5 NNE;hwy W	416	55h	
" MUNICIPAL	5.9 WNW;RR N	396	50h R2 L3 S6	80,91 oct.Rdo rec req.
Tri-Cities (Endicott)	3.5 WSW;riv S	840	35h R1 L3 S6	80,91 oct.Wooded ridge W,ESE.
Utica	7.8 NW;hwy S	525	31 R1 L1 S6	80 oct.Twr W;hill N;trees S.
Warren Eaton (Norwich)	2.5 N;riv,RR E	1015	20 S1	80 oct.Wooded ridge E.
(F) Watertown	5.9 WNW;hwy N	325	50h L1 S4	80 oct.Bcn on req.ARPT OF ENTRY.
Schoharie Co.(Richmondville)	1.3 NE; RR N	1000	16 S1	80 oct. Trees E.
Smithport Inc.(Utica)	2 S	1150	24	Data not verified.
PENNSYLVANIA				
BETHLEHEM (Allentown)	4.6 NNE;RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only. Fld lgts prior req.
Barrett (Canadensis)	1.8 N;hwy SW	1450	18 S2	No fuel. Trees E.
Bellefonte	4.3 ESE;hwy N	1045	21 L3 S6	80 oct.
Bloomsburg	0.8 ESE;riv S	478	32 L3 S6	80,91 oct.Pole lines SW, E.
Chemung Valley (Athens)	1.8 NNW;riv E	850	38 S4	73 oct.
Cherry Spgs. (Corbett)	2.4 W	2265	18 S1	Ltd 80 oct.Trees W,SE, NW.
Cub Haven (Lock Haven)	1.7 E;RR S	550	25h S1	80 oct. Pwr line E.
Daleville	0.6 N;hwy W	1775	19 S4	80 oct.Hill S.
Danville	2.2 SW;RR N	480	22 S3	80 oct.Hill SE.
Easton	3.5 NNW;RR W	380	22 S6	73-91 oct.Pole line N.
East Penn (Andreas)	1.5 NE;hwy S	860	18 S6	73 oct.
Gordon	1.8 W;RR E	960	18 S2	80 oct. Hill S.
Lehighton	0.9 WSW;hwy NW	502	18 S5	80 oct. Trees WSW.
Mid Valley (Olyphant)(NC)	3 N;rd NE	1385	20	
Milton	0.8 S;RR W	450	24 S6	80 oct.Pole line SW.
Mt.Pocono,21,BJ-LG	1.5 NW;hwy NE	1925	26h L3 S1	80 oct.Pole line NE.
Mt. View (Nicholson)(NC)	4.8 ENE;crk NW	1280	21	50' trees S.
Reifenberg (Hazleton)	5.8 NNW;rd E	1146	21 S4	80 oct.
Scranton	7.2 WNW;hwy N	1150	24h L3 S6	73-91oct. Fld lgts prior req.
Selinsgrove	1.1 N;hwy E	450	25 S2	73,80 oct.Pole line E,W.
Shamokin (Elysburg)	2 SE;RRs W	1100	16 S2	80 oct.
Skyhaven (Tunkhannock)	0.3 S;RR N	639	20 S1	80 oct.Pole line,trees SW.
State College Air Depot	3.4 E;hwy S	1200	19 S4	80 oct.Poles adj W.
Stroudsburg-E. Stroudsburg (Stroudsburg)	2.5 NNE;hwy S	426	22 S4	80 oct.
Sunbury	2 NNE	450	37 R1 L1 S6	80 oct. No sto.
★ Tamaqua,Int,61B,CG-LG	2.2 WNW;hwy W	1260	30 L3	
Towanda	1.5 SSE;RR W	700	25h S1	80 oct.Pole line SW,NE.
Valley Airpark (York)	3 ENE;RR N	420	21 S4	80 oct.Poles SSE,NNW.
Wilkes-Barre-Wyoming Valley	3.5 NNE;riv S	546	35h R1 L3 S4	80,91 oct.
Williamsport	5.1 E;riv S	526	43h R1 L5 S6	80,91 oct. Lgts prior req.
East Scranton (Scranton)	7.3 ESE;lake E	1660	23	Trees S, N.
Hughesville	0.6 S;crk E	570	12 S2	No fuel. Trees NE.

n-hard surfaced **runways.** R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not **charted.** → NEW OR REVISED DATA

42 SYRACUSE


PRESQUE ISLE 18
WATERTOWN
CARTHAGE
SCALE OF MILES
10 0 10 20 30
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY R QUADRANTS.
CAN.
N. Y.
RICHLAND
PULASKI
LADD'S
BOONVILLE
UTICA
359
(116.1)
SYRACUSE
350
(116.1)
ROCHESTER
206
116.1
ROCHESTER
278
COMMERCIAL
HILTON
RIDGEWAY
FULTON
FULTON AIR PARK
RED CREEK
CICERO
SYRACUSE
GREEN 2
NEWARK
HYLAN
WEST BRIGHTON
KIRKVILLE
ROME AAF
396 (126.18)
UTICA
CANASTOTA
SMITHPORT INC.
SYRACUSE MUN.
278
COLGATE UNIVERSITY
TO ALBANY
MEACHAM-GENESEE
PARKER
AUBURN
SCOTTSVILLE
HONEOYE FALLS FLY SER
SENECA FALLS
MASON
DANSVILLE
212
116.1
On request
DANSVILLE
PENN YAN
SCHOHARIE CO
MORAVIA
CORTLAND
CAYUGA
ITHACA
WARREN EATON
KEYES-ONEONTA
ELMIRA
385
116.1
MERCURY
MORRELL
MARTIN
SIDNEY
BINGHAMTON
BUFFALO 39
ALBANY 43
COSTA'S
CROWNER
PAINTED POST
CHEMUNG CO
EAGLE VALLEY
CHEMUNG VALLEY
TRI-CITIES
278
COMMUNITY
ELMIRA-PINE CITY
N. Y.
PA.
ELMIRA
BOSTON
NEW YORK
CLEVELAND
NEW YORK
CHERRY SPRINGS
TOWANDA
LAKE CAREY
21
SKY HAVEN
SCRANTON
NARROWSBURG
WILLIAMSPORT
233
WILKES-BARRE
272
HUGHESVILLE
WILKES-BARRE
LOCK HAVEN
KINGSTON
DALEVILLE
BARRETT
EAST SCRANTON
MT. POCONO
LAKE SUSQUEHANNA
CUB HAVEN
WILLIAMSPORT
SUNBURY (VHF)
108.3
SUNBURY
353
(116.1)
On request
DANVILLE
ALLENTOWN
320
(116.1)
REIFENBERG
BLOOMSBURG
LEHIGHTON
STROUDSBURG
MILTON
SUNBURY
SHAMOKIN
TAMAQUA
EAST PENN
PHILIPSBURG
BELLEFONTE
STATE COLLEGE
SELINSGROVE
SUNBURY
SLATINGTON
EASTON
MARTINS CREEK
GORDON
ALLENTOWN-BETHLEHEM
TO HARRISBURG
TO NO ALTOONA
WASHINGTON 75
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

ALBANY 43


PRESQUE ISLE 18
TO BURLINGTON
TICONDEROGA
BURLINGTON
323
On request
GLENS FALLS
206
(116.1)
30
BLUE 18
4000
FAIR HAVEN
NORTHFIELD
38
5000
MONTPELIER
BLUE 4
89
4000
TWIN STATE
On request
LEBANON
209
(116.1)
RUTLAND
10 CONCORD
BLUE 40
LEBANON
55
NEWPORT
PISECO
PLATEAU
SACANDAGA PARK
GLENS FALLS
WARREN CO.
122
HARTNESS
CLAREMONT
N.Y.
VT.
208
5000
SARATOGA SPRINGS
24
EQUINOX
VT.
N.H.
BOSTON 46
STEENBURGH
GLOVE CITY
CARPET CITY
BALLSTON SPA
LONG MEADOW
VAUGHAN
SCHUYLERVILLE
GREEN 2
4000
HAYDUK
122
SCHENECTADY CO.
KEENE
DILLANT-HOPKINS
FORT PLAIN
84
3000
AURIESVILLE
27
ALBANY
365
(116.1)
BENNINGTON
BRATTLEBORO-HINSDALE
STONE ARABIA
SKY HAVEN
166
BRIGGS
INTERCITY
STEVENS
VT. N.H.
MASS.
COOPERSTOWN
4000
COLONIE
6
TROY
293
FAIR VIEW FARM
TURNERS FALLS
ORANGE
ALBANY
278(126.18)
ADAMS
GARDNER
STEPHENTOWN
WESTOVER AAF
272
42°30
5000
VALLEY AIRPK.
6000
EAST GREENBUSH
RAVENA
72
207
PILGRIM
149
239
HILLER
PITTSFIELD
FARLY'S
MEDWAY
28
144
5000
4000
GREEN 2
LaFLEUR
WESTOVER AAF
396(126.18)
E. BROOKFIELD
BROOKFIELD
SOUTHBRIDGE
SYRACUSE 42
CATSKILL
N.Y.
MASS.
GREAT BARRINGTON
METROPOLITAN
BARNES
59
36
HALCOTT
MARGARETVILLE
FLEISCHMANNS
92
BLUE 18
26
5000
CATSKILL VALLEY
WESTFIELD
230
SPRINGFIELD
329
4000
BOSTON
W. SPRINGFIELD
KINGSTON-ULSTER
CANAAN
21
KINSLEY
303
WOODSTOCK
BOWLES
AGAWAM
BLUE 41
5000
BOSTON
NEW YORK
WALLKILL NO. 2
KINGSTON
COZINE
N.Y.
CONN.
BRADLEY
SIMSBURY
34
STEPHENSON
143
252
NEW HACKENSACK
WEATOGUE
14
RENTSCHLER
254(126.18)
NEWBURGH-WALDEN
MONTGOMERY
STEWART
236
FREEDOM PLAINS
81
158
WINGDALE
4000
258
HARTFORD
329
(116.1)
WINDHAM
WATERBURY
MONTICELLO
87
WURTSBORO
LIME RIDGE
STORMVILLE
RED 13
5000
MERIDEN
18
27
3000
59
PROVIDENCE
RED 13
4000
MONTGOMERY NO.
BROOKFIELD
BETHANY
BRAINARD
278(126.18)
323
SALEM
41°30
LUFBERY
64
AMBER 7
MERIDEN
278
HUGUENOT
RANDALL'S
WAPPINGERS FALLS
MATAMORAS
63
DANBURY
55
4000
MONROE
WATERFORD
DOANE
GROTON
BLUE 18
42
3000
SOMERS
BLUE 41
NEW HAVEN
ELIZABETH AAF
STEWART AAF
396(126.18)
RED 33
3000
41
N.Y.
N.J.
WESTCHESTER
NEW YORK
209
224
WEST HAVEN
N.Y. 3
DA
SUSSEX
CHRISTIE
338
4000
WARWICK-WICKHAM
MILLER
238
60
BRIDGEPORT
269(126.18)
240
134
5000
44
WESTCHESTER CO.
74°
73°
72°30
72°
41°
NEW YORK
209
NEWARK
341
MITCHELL AAF
227
NEW YORK 79
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO — CONNECTICUT

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BRAINARD (Hartford)	278 (126.18)	C	(4), 131.9, 126.18
BRIDGEPORT ARPT	269 (126.18)	C	(4), 116.1,131.9,126.18
E.HARTFORD (Rentschler)	254 (126.18)	CI	(3) only
HARTFORD (Brainard)	329(HT)(116.1)	SBMRAZ-VDT, 323°, 2.3	(4); 116.1
MERIDEN FM	(- - -)	FM, 244°, 17.6	Hartford
MERIDEN ARPT.	278	CI	3105,4495 (days)
MASSACHUSETTS			
WESTFIELD (Barnes)	230 (WJ)	BMRLZ-DT,270°, 1.7	(4)
WESTOVER (Chicopee Falls)(Army)	272 (DO)	BMRAZ	(3)
Westover Field	396 (126.18)	CA(ILS),239°,2.7	(3), 126.18
NEW HAMPSHIRE			
LEBANON	209(LP)(116.1)	MHVT	(4), 116.1
ALBANY- Albany Airport	365(AZ)(116.1) 278 (126.18)	SBRAZ-VDT C, 196°, 3	(3), 116.1 (4),126.18,116.1,140.1, 131.9
AURIESVILLE FM	(- - - -)	FM, 302°,27.2	Albany
COLONIE LFM	(- - -)	LFM,206°,5.7	Albany
GLENS FALLS	206(GB)(116.1)	MHVT	(4), 116.1
MEDWAY FM	(. . - - -)	FM, 206°,27.6	Albany
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York •
SARATOGA SPRGS FM	(-)	FM, 280°, 24	Albany
STEWART FIELD Stewart Field	236 (SW) 396 (126.18)	BMRLZ-DT CA, 125°, 2.5	(4) (3), 126.18 (7-25)

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WESTOVER, MASS.	109.9	333.8	239°Mag	IM (.49)	MM ..... (.79)	OM -- (3.38)	
					MNR	OMR	
WESTOVER, MASS.	109.5	332.6	59°Mag	IM (.02)	MM ..... (.72)	OM -- (4.42)	
					MNR	OMR	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bethany	1.3 N,hwy E	680	21 L2 S6	80,91 oct.No bcn.Lgts prior req
Bradley (Windsor Locks)	2 W,hwy E	171	50h	Antenna S.
BRAINARD(Hartf'd)	2.8 SE,RR W	19	48h R2 L5 S6	80,91,100 oct.Dike E,N.
(N,P) BRIDGEPORT	3.5 ESE	9	48h R1 L5 S4	80,91 oct.
Brookfield	0.3 S,RR,riv E		10 S6	80 oct.No sto.Data not verified.
Canaan	1 N,RR W	680	24 S6	80,91 oct.No sto.Pole line SW.
Danbury	2.5 SW,RR N	454	44h S6	80 oct.Poleline WSW, SSE.
Doane (Essex)	1.2 SW,RR E,N	30	21 S6	80 oct.No sto.Trees N, NW.
Groton	2.8 SE,RR W	10	50h	
Kinsley (Somers)	2.5 NNW,RR W	200	19 S4	80 oct.
Lufbery (Wallingford)	0.5 WSW,RR E	80	22 S6	80 oct.No sto.Stacks S, N,
Meriden	2.7 SW,RR E	102	35 R1 L3 S6	80 oct.Hi-line W,S.
Monroe	0.7 SSE,rd E,W	620	20 S6	80 oct.
New Haven	3.5 SSE,crk W	4	43h S6	80,91,100 oct.No sto. Pole line NW.
Rentschler (East Hartford)	1 S,riv W	40	58h R1 L5 S6	80,91,100 oct.
Salem	2.1 E,lake NNE	400	21 S6	80 oct.
Simsbury	2.6 NNE,RR W	170	17 S6	80 oct.Trees SE.
Stephenson(Bristol)	1.5 ESE,RR N	340	18 S6	80 oct.
Waterbury(Plymouth)	2.6 S,RR E,W	843	20 S6	80 oct.
Waterford	1.7 N,RR SSE	60	20 S6	80 oct.Trees,hill S.
West Haven	2.7 SW,hwy E	15	18 S4	80 oct.No sto.Poleline E,W blckd.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiv) (NC)-Not

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Westport	2 S	S.L.	Unl. S4	80 oct.Float.Marine R.
Windham	3.5 NNW,hwy S	238	44h S1	80 oct.Trees NE,ENE
MASSACHUSETTS				
Adams	1.3 SSE,RR W	1400	18 S1	80 oct.
Agawam Land & Seaplane Base	0.5 S,riv E	50	16 S6	80 oct.Pole line SE.
BARNES(Westfld)	3 NNE,RR W	268	50h R1 L5 S6	80, 91 oct.
Bowles (Agawam)	2.4 WSW,trk E	190	40 S4	80 oct.Poleline S,SSE.
Brookfield	1 W,RR SW	680	20 S4	80 oct. W,NW.
Fair View Farm (Williamstown)	4 SW,riv E	954	23 S1	80 oct.Poleline ENE. Hill NNE.Lgt acft only
Gardner	2 SW,hwy N	1020	18 S4	80 oct.
Great Barrington	2 WSW,riv N	726	28 S6	80,91 oct.Obst sur fld
LaFleur (Northampton)	1.2 ENE,riv SW, N	120	26 S4	80 oct.No sto.
Metropolitan(Palmer)	5 N,riv W	400	19 S6	80 oct.Hill N.
(P)Orange	1.5 SE,hwy SE	555	50h S1	80 oct.Poles NE.
Pittsfield,3B,AZ-BW	2.4 WSW,hwy NW	1140	27 L3 S1	80 oct.Pole line N.
Smiths Ferry (Holyoke)(NC)	4.5 N	100	95	Obsts NE,SW.
Springfield	2.3 NE,RR S	205	26 S6	80,91 oct.Bldgs.W.
Stevens(N.Adams)	2.8 WSW,RR N	690	14 S4	80 oct.No sto.Poleline
Turners Falls (Montague)	4.2 N	350	33 S6	80 oct.Wooded E. ridge SE,SW.
(A)Westover (Chicopee Falls) (A)	3.8 NNE,riv W	244	70h R3 L6 S6	73,91,100 oct.No sto.
NEW HAMPSHIRE				
Claremont	1.3 W,riv NE	520	28h S2	80,91 oct.Wooded ridge
Dillant-Hopkins (Keene)	2 S,riv,RR W	481	40h S6	80 oct. NNE.
Hinsdale-Brattleboro (Hinsdale)	2.7 NW,RR W	360	18 S4	80 oct.Lndg flares prior req.
Keene Arpk.	3 NW,RR W	500	21 S6	No fuel or sto.100' hill
Lebanon	3.3 WSW,RR N	579	40h R1 L5 S1	80 oct.Rdo repair Sn.
Newport	2 NNW,RR W	780	26 S4	80 oct.Pole line E.
NEW JERSEY				
Sussex	1.2 WSW,RR S	420	25 S1	80 oct.200' knoll NNE.
NEW YORK				
Accord (NC)	0.7 N,RR S	260	19	Trees S,NE,SW.
ALBANY	6.9 NNW,riv N	271	35h R2 L5 S6	80,91,100 oct.ARPT OF
(P)Ballston Spa	3 N,RR E	433	40h L5 S6	80,91 oct. ENTRY.
Briggs(Carlisle)	0.6 SE,RR W	1320	12	
Carpet City (Amsterdam)	6 N,rd NW	887	18 S6	80 oct.Use strips only
Catskill(Cairo)	2 E,hwy S	300	16	Trees sur fld.
Catskill Valley (Catskill)	1.5 SW	100	23 S3	80 oct.Data not verif.
Christie(New City)	1.5 N,RR E	150	16 S4	80 oct.Pole line SW.
Cooperstown	1.4 NNW,RR SE	1660	16 S4	80 oct.Pole S.
Cozine(Rhinebeck)	0.5 SE,RR W	200	20 S1	87 oct.Poleline W.
East Greenbush	0.8 NW,RR W	260	38 S6	80 oct.Pole line N.
(A)Elizabeth (Fisher's Island)(A)	W end Island	7	29h L4	No beacon.
Farly's (New Baltimore)	3 S,RR W	10	20 S1	80 oct.Trees N.
* Ft.Plain Int,40A,	3 NNW,RR NE	680	35 L3	(CV-AZ)
Freedom Plains (Billings)	2 W,rds N,E	340	10 S1	80 oct.Pwrline S.
Glens Falls,18,LG-UL	2.6 NW,rd S	474	36h R1 L3 S6	80 oct.
Glove City	1.5 NE,RR S	860	17 S1	80 oct,(Gloversville)
Halcott(Halcott Ctr)	1 N		10 S1	80 oct.Data unverif.
Haydul:(Herkimer)	0.6 SSW,RR N	400	12 S4	Ltd 80 oct.Poleline E.
Huguenot(Port Jervis)	3.3 NE,RR SE	480	21 S6	80 oct,Trees SW.
Intercity	3.6 SSE,RR NE	340	20 S4	80 oct,(Schenectady)
Kingston	1.5 NW,RR S	150	17 S4	80 oct.Pole line NW.
Kingston-Ulster (Kingston)	2.7 N,RR E	160	30 S4	80 oct.No sto.Pole line E.
Line Ridge (Beekman)	1.3 SE,RR S	420	16 L2 S6	80 oct.All lgts prior request.
(Northampton) (Mass.)	9 N	120	16 S3	No sto. Data unveri.

ARPT.— CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Long Meadow (Rexford)	1.5 NE,RR NW	380	17 S1	80 oct.Poles NNE.RR S
Miller (Nyack)	1.8 WNW,riv E	70	17 S6	80 oct.No sto.Poleline SW.
Montgomery	1 WSW,riv W	393	22 S6	80 oct.Trees N,brushE
(A)Montgomery U.S. Mil.Academy #1	2 SW	355	35h	CLOSED. (A)
Monticello-Sullivan Co.	1.4 N,RR E	1500	21 S1	80 oct.Windmill SSE.
Newburgh-Walden (Walden)	2.2 SSW,riv W	404	32 S6	73,80 oct.Obsts sur fld.
New Hackensack	0.5 W	156	35h	Obsts NE.
Piseco	0.5 N,hwy SW	1710	19 S2	Ltd 80 oct.Trees, brush NNE.
Plateau(Northv'l)	2.5 E,riv ESE	1040	24 S1	Ltd 73,80 oct.Trees S
Randall's (Middletown)	1.8 ESE,RR NW	520	20 S1	80 oct.
Ravena	1.2 N,riv 2 E	180	14 S2	80 oct.Lgt acft only.
Rockland(New City)	1 SSE,RR E	240	12	Trees W,hwy E.
Sacandaga Park (Northville)	1 SW,RR W	770	13 S1	80 oct.Pole line WSW.
Schenectady Co.	3 N,RR SE	362	50h L5 S6	80, 91, 100 oct.
Schuylerville,Land & Seaplane Base	2.5 S,riv E	100	29	Trees N,S.
Selkirk (NC)	2.7 E,riv E	160	22	Trees N.
Sky Haven(Delanson)	0.9 NW,RR SE	1100	14 S2	80 oct.ESE,W blocked.
Somers	0.6 SE,RR E,S	563	17 S4	80 oct.No sto.
Starhaven(Middletown)	1.3 NW,RR SW	750	29	Trees SW,SE,NW.RR N
Steenburgh Avia. Svc.(Gloversv'l)	1.5 ENE,RR N	900	8 S1	80 oct.
(A)Stewart(Newburgh)	4 W,hwy N	463	61h R2 L5 S6	91,100 oct.Twr W.(A)
Stone Arabia (Fort Plains)	3.6 ENE,hwy E	880	18	Pole line NNW.
Stormville	1 ENE,RR S	350	23 S4	80 oct.No sto.Trees NE
* Ticonderoga Int, 22, LG-UL	2.7 NNE,rd E	210	32 L3	Obsts sur fld.
Troy	2 SSE,riv W	327	30 L4 S6	73,91 oct.Trees NW.
Valley Air Park (Middleburg)	1.5 NNW	635	16	Data not verified.
Vaughan(Johnstown)	1 E,hwy W	760	18 S1	Ltd 80 oct.Trees W.
(A)Wallkill, U.S.Mil. Acad. #2 (A)	3 NW,riv E	340	35h	CLOSED.
Wappingers Falls	0.9 SE,rd S	152	21 S4	80 oct.Pole line E,W,S.
Warren Co.	2.4 NNE,rd N	325	40h	(Glens Falls)
Warwick-Wickham	4.5 NE,RR W	540	24 S4	80 oct.Ridge N
Westchester(Armonk)	0.5 SSE,riv E	380	18 S6	80,91 oct.Trees sur fld.
Westchester Co. (White Plains)	4 NE,lake W	435	50h L5 S6	80,91 oct.No sto.All lgts prior req.FEE
White (Bedford)	3.6 SE,hwy E	475	12	
Wingdale	1.5 NE,RR W	400	25 S4	80 oct.No sto.ROUGH
Wurtsboro	2 NE,RR E,SE	560	26 S6	80 oct.Obsts sur fld.
PENNSYLVANIA				
Matamoras	0.5 SSE,riv SE	450	18h L4 S6	80 oct.No bcn.Lgts prior req.
VERMONT				
Bennington	2.5 WNW	830	13 S1	80 oct.470' hill WNW
Equinox(Manchester)	1 E,riv E,N	700	18 S6	80 oct.Poleline,mtn E
Fair Haven	1.5 N	370	20 S2	80 oct.Hills sur fld.
Harlness	3.8 NNW,riv E	570	20 S6	80 oct. (Springfield)
Rutland	5.8 SSE,hwy W	784	40h L3 S4	80 oct.No sto.All lgts prior req.
Twin State (White River Junction)	1 SW,riv,RR E	540	19h S6	80 oct.Hill NW.
Margaretville-Fleischmann	0.2 S,riv W (N.Y)		21 S4	80 91 oct No sto,Pole line NE(Margaretville)
East Brookfield (Mass.	0.5 W	1650	15 S3	80 oct. Data unverified
Southbridge(Mass.)	3 N	700	26 S4	Data unverified.
West Springfield(Mass.	1.5 N,riv E	65	19 S4	Data unverified.

RADIO

MAINE

LOCATION	FREQS IDENT.	STA. CLASS, BEAR. & DIST.	FREQ.,GUARD HRS. OF OPER.,REMARKS
BRUNSWICK NAS	382 (NSM)	SRAZ; 84°,4	(3)
PORTLAND	206(PW)(116.1)	BMRLZ-VDT,149°, 2.2	(4), 116.1
YARMOUTH FM(Navy)	(- - -)	FM,264°,11.4	Brunswick NAS

MASSACHUSETTS

BEDFORD (Navy)	522 (DBH)	MH	Oper cont.
Bedford AAF	212 (126.18)	CA	(3), 126.18
BOSTON (Logan)	263(BW)(116.1)	SBRAZ-VDT,238°, 2.2	(3), 116.1
BRANT ROCK FM(Navy)	(- -)	FM, 141°, 20.2	Squantum NAS
EASTON FM (Navy)	(- - -)	FM, 218°, 17.7	Squantum NAS
EVERETT LFM	(- - - -)	LFM, 298°, 4.2	Boston
FRANKLIN FM	(. . - - -)	FM, 238°, 28.7	Boston
LOGAN (Boston)	278 (118.7) (126.18)	AC	(4), 131.9,118.7, 126.18
PEABODY FM	(-)	FM, 31°, 9	Boston
SOUTH BOSTON LFM	(- - -)	LFM, 238°, 4.7	Boston
SOUTH WEYMOUTH (Navy)	420 (NFR)	BMRLZ	(3), 142.74 days on req.
South Weymouth NAF	3295 (142.74)	CN, 82°, 3.1	(3), 142.74, (8-1630,Mon.-Fri.)
SQUANTUM (Navy)	472 (NZW)	BMRLZ	(3);142.74 flt opers.
Squantum NAS	323 (142.74)	CN, 321°, 3.5	3105,4495;142.74 (7-sunset 1 hr.advance notice)

NEW HAMPSHIRE

BOSCAWEN FM	(- - - -)	FM, 332°, 14.2	Concord
CONCORD	251 (CN)(116.1)	BMRLZ-VDT,327°, 2.1	(4), 116.1
GRENIER(Manchester) (Army)	338 (DUR)	SBRAZ	
Grenier Field	278 (126.18)	CA(ILS),352°,4	(3), 126.18

RHODE ISLAND

CHARLESTOWN NAAS	3295 (142.74)	CN	3105;142.74 (GCA)
GREENE (Providence)	278 (126.18)	C	(4);116.1,131.9, 126.18
PROVIDENCE(Greene)	347 (PR)	BMRLZ-DT,480,3.5	(3)
QUONSET POINT(Navy)	356 (NCO)	BMRLZ	3105; 142.74
Quonset Point NAS	227(142.74) (126.18)	CN, 339°, 2.3	(3);142.74,140.58, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs.; Compass Locators in kcs.)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
GRENIER, N.H.	109.5	332.6	352°Mag	IM (.02)	MM (.71)	OM (5.00)	
				MMK 201 ••• (.71)	OMK 219 ••• (5.00)		

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.;(4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CONNECTICUT

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Fostoria (Stonington)	1 NE,RR S	5	18 S4	80 oct.Lgt acft only
Plainfield	1.5 SSW,RR E	160	21 S6	80 oct,
★Putnam Int,14,LG-BW	1.7 WSW,riv E	460	22 L3	Pole line N poles NE

MAINE

Biddeford	2 SSW,RR NW	110	22 S2	80 oct.Poleline SE.
(N)Brunswick NAS(N)	1.5 SE,RR N	77	60h RI	INACTIVE
Douglas (Brunswick)	3.5 W,RR SE	170	15	
Hilltop (West Buxton)	0.8 WSW,RR S	300	22 S4	80 oct.Poleline ESE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV(NC)-Not charted. → NEW OR REVISED DATA.

MAINE

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Merrymeeting (Bowdoinham)	1 SSE,riv E	60	18 S1	80 oct.Trees N, S.
New Meadows (Bath)	2.3 WNW,RR S	12	60	Beach,N,S appchs blocked.
PORTLAND	2 W,riv E	60	43h RI L5 S6	80, 91 oct.
Port of Maine (South Portland)	1.8 SSW,RR E	40	22 S3	80 oct.Poleline SSE, NE, SW.
Riverside Airpark (Brunswick)	1 WNW,RR S	60	23 S1	80 oct.Trees NNW. Hwy S.
(P)Sanford	4 SE,hwy N	243	60h L5 S6	80, 91 oct.
Scarboro	2 W,RR SSE	20	25 S2	80 oct.
Kennebunk	2 S,rd E	120	20 S2	80 oct.Trees S.Data not verified.
Riverside(Brunswick)	1 WNW,riv E	60	20 S2	80 oct.Data unverified
Stover (Freeport)	4 NNW	200	12 S2	80 oct.Data unverified

MASSACHUSETTS

Ames (Brockton)	3 WSW,RR W	120	20 S6	73 oct. RR S.
Auburn	2 SW,RR W,E	700	15	Lgt acft only.
Ayer	1.5 NW,riv W	268	52h	
(A)Bedford AAF (A)	1 S	128	50h R2L5 S6	80, 100 oct.
Beverly CGAF	3 NW,lake E	108	50h L5 S1	80,91 oct.Svcg mil. acft on req.
Bolton (Clinton)	2.3 NE,RR W	400	17 S6	80 oct.Trees around fld. RR S.
Boston-Metropolitan (Canton)	1 W,riv W	50	21 S6	80, 91 oct.
Brockton	2 S,hwy E	128	15 S6	80 oct.Poles E,W.
Cape Cod (West Barnstable)	2.1 SW,lake SW	100	25 S2	80 oct.
Country Club(Wareham) (NC)	1.3 E,riv S	25	17	Pole line,trees N.
Chatham	1.7 WNW,hwy S	66	14 S4	80 oct.Pole line N.
→ East Thundertown(Orleans)	5 N	45	16 S3	Data unverified.
Edgartown	2 S,rds E,NW	20	30 S4	80 oct. No sto.Pole
Falmouth (NC)	2.5 NE	40	18 S4	80 oct.Data not verified.line NE
Fitchburg	2.5 SE,bet RRs	334	45h S6	80 oct.Knolls,dike S.
→ Franklin-Norfolk (Norfolk)	2.5 WNW RR SSE,NW	140	20 S6	80 oct.Pole line S.
Grafton (No.Grafton)	0.7 SSW,riv N	450	30 S6	80 oct.Wooded hill S
Groton	4.6 WNW,RR W	280	28 S6	80 oct.
Haverhill	2 NNE,lake S	125	17 S6	80 oct.Stack S;pole line NW.
HYANNIS	1.2 N,RR E	56	41h S4	80, 91 oct.
King (Taunton)	4.5 ESE,RR N	45	26 S6	73 oct.Poleline NNE.
(P)LAWRENCE	2.5 ENE,lake E	155	40h L5 S6	91 oct. Pole line SSE.
Leicester	2 N	1140	15h S4	80 oct.Reservoir SE.
(A,N) LOGAN (Boston)	1.5 E in harb.	12	40hR2 L4 S6	80,91,100 oct.Rdo req.
Mansfield	2 SSE,RR NE	124	25 S2	80 oct..Poleline NW, NE.
Marlboro	2.4 E,RR WSW	265	15 S2	80 oct.Ridge SSE,NNW
MARTHA'S VINEYARD (Vineyard Haven)	4.3 S,rd S	68	38h L5 S2	80,91 oct.Lgts prior req.Obsts SE side.
Mendon	0.3 S,lake W	450	18 S4	80 oct.No sto.Pole line N,NW.
Myricks	0.8 N,RR SW	65	20 S4	80 oct.Pole line S.
NANTUCKET	2.6 SE,rd N	47	40h L S6	80 oct.Port.rnwy lgts.
(P)New Bedford	2.5 NNW,RR W	78	50h	RR S.
Norwood	1.8 E,riv E	55	40h S1	80, 91 oct.
Oak Bluffs	0.8 SW,rd W	20	20 S4	80 oct.Trees E,SE.
(N)Otis NAAS(Falmouth)	9 NNE	126	70h	INACTIVE. (N)
Plum Island (Newburyport)	2.3 SE,riv N	15	25 L1 S6	80 oct.Pole line E.
Providence (Seekonk)	2.1 ESE,rd NE	25	17 S4	80 oct.Pole line NNE

MASSACHUSETTS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Shawsheen Pines (Billerica)	2.7 E,RR NE	110	17 S4	80 oct.No sto.Trees NE,E,SE.
Sherman Memorial (Mansfield)	3 SSW,RR W	130	17 S1	73 oct.Trees sur fld
(N)South Weymouth NAF	1.5 SSE,RR W	152	45 R2 L5 S4	100 oct.B-2 lgts.(N)
(N)Squantum NAS (N)	0.8 W,bay N	10	41h R2 L5 S4	91,100 oct.No sto.No ngt flying.
Westboro	1.9 WNW,hwy N	310	15 S6	80 oct.Rnwy data unverified.
Wilkins (No.Attleboro)	2 NE,lake NW	200	18 S6	80 oct.Poleline ESE
WORCESTER	3.5 W,RR SE	1009	55h	
→ Spencer	2 NE	1100	15	Data unverified.
→ Plymouth	SSE	149	25	Data unverified.
→ Revere	1 N	20	21h S4	80,91 oct.Data unverif
→ Richardson (Dracut)	2 NNW Lowell	115	15 S4	Data unverified.

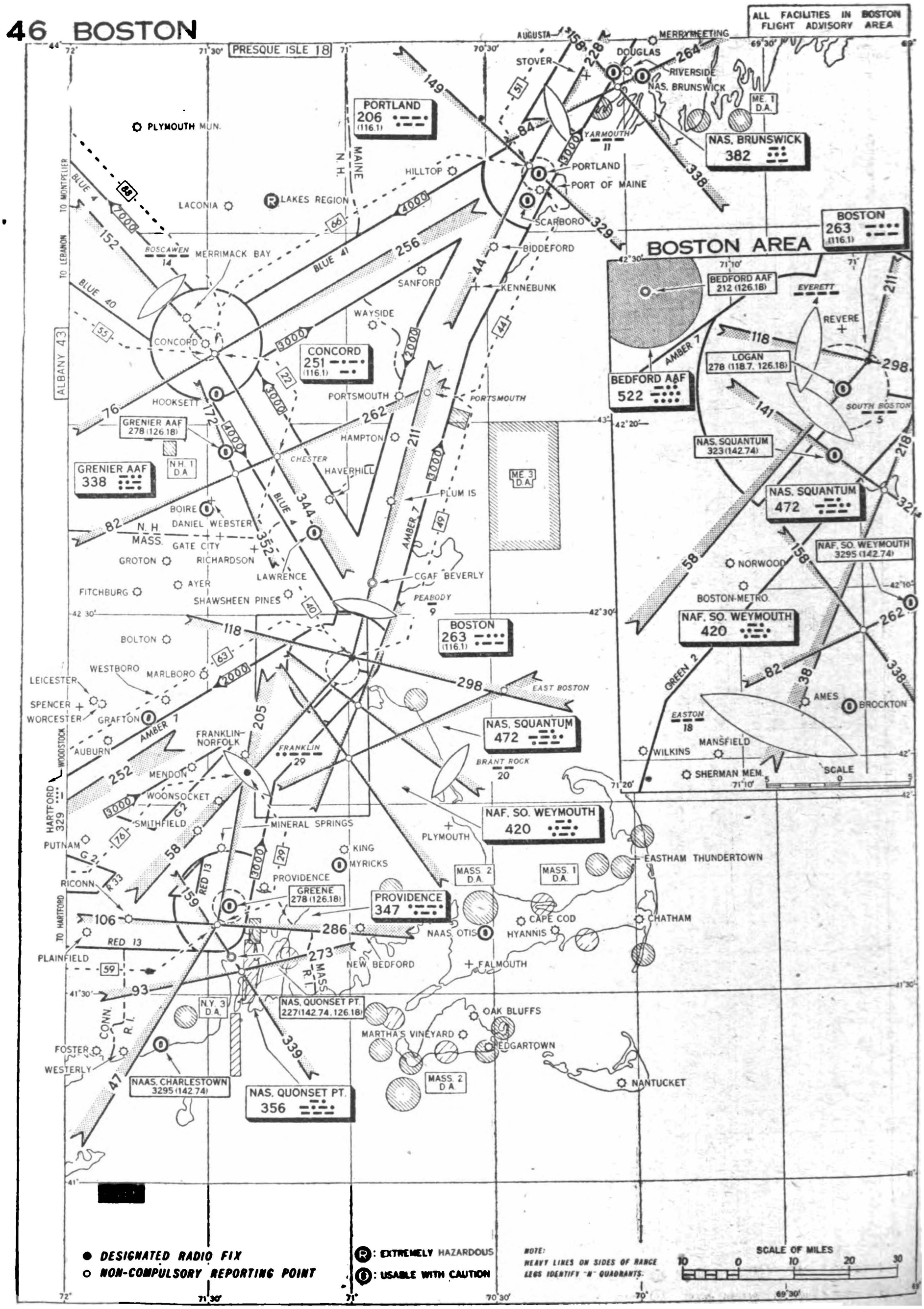
NEW HAMPSHIRE

Boire (Nashua)	2.8 WNW,RR N	185	20h L3 S6	80 oct.Lgts prior req.
CONCORD	1.5 E,riv W	346	40h RI L5 S6	80,91 oct. Pole S.
Daniel Webster (Nashua)	3.5 NW,riv E	192	24 S6	80,91 oct.Data not verified.
(A)Grenier (Manchester)	4 S,RR E	230	70h R3 L5S6	73,91,100 oct. (A)
Hampton	1.6 N,RR W	80	22 S5	80 oct.No sto.Trees N, S.
Hooksett Land & Seaplane	2 S,RR E	187	32 S6	80 oct. No sto.
Laconia	3.8 NNE; RR S	536	35h L5 S6	73,80,91 oct.Fld lgts prior req.
Lakes Region (Wolfeboro)	2.6 W,RR E	580	14 S1	80 oct.No sto.
Merrimack Bay (Concord)	5 NNW,RR W	260	15 S2	80 oct.Poleline S.
Plymouth Mun.Arpk.	3.5 WNW,RR N	500	18 S2	Ltd 80 oct.Poleline N
(P)Portsmouth	3 W,bay W	94	50h L5 S6	80,91 oct.
Wayside(Sommersworth)	2.4 W,RR N	200	12 S2	80 oct.Trees SSE.
Gate City (Nashua)	4 S		23 S4	80 oct. Data unver

RHODE ISLAND

(N)Charlestown NAAS (N)	1.9 SW,hwy N	32	58h RI L5 S1	91, 100 oct. No bcn.
Greene (Providence)	7 S,RR W	53	41h R2 L5 S6	80, 91 oct.
Mineral Springs (Providence)	4.6 NW,hwy E	240	11 S4	73 oct.No sto. Trees surround field.
(N)Quonset Point NAS(N)	16.5 S Prov'd.	14	60hR2L5 S6	91, 100 oct.
Riconn (Greene)	1.8 WNW,RR S	390	15 S4	80 oct.
Smithfield	1 NE,RR W	400	17 S6	73 oct.
Westerly	2.4 SSE	81	40h	Riv. E.
Woonsocket	2.5 E,	400	20 S2	80 oct.Riv WSW.

46 BOSTON


ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
PRESQUE ISLE 18
PLYMOUTH MUN.
PORTLAND 206 (116.1)
AUGUSTA
MERRYMEETING
STOVER
DOUGLAS
RIVERSIDE
NAS. BRUNSWICK
ME. 1 D.A.
NAS. BRUNSWICK 382
YARMOUTH
PORTLAND
PORT OF MAINE
SCARBORO
BIDDEFORD
KENNEBUNK
SANFORD
WAYSIDE
HILLTOP
LAKES REGION
LACONIA
BOSCAWEN
MERRIMACK BAY
CONCORD
CONCORD 251 (116.1)
PORTSMOUTH
HOOKSETT
GRENIER AAF 278 (126.18)
GRENIER AAF 338
NH. 1 D.A.
HAMPTON
CHESTER
HAVERHILL
PLUM IS
ME. 3 D.A.
BOIRE
DANIEL WEBSTER
N. H.
MASS.
GATE CITY
GROTON
RICHARDSON
AYER
FITCHBURG
SHAWSHEEN PINES
LAWRENCE
CGAF BEVERLY
PEABODY
BOLTON
WESTBORO
MARLBORO
LEICESTER
SPENCER
WORCESTER
GRAFTON
AUBURN
FRANKLIN-NORFOLK
FRANKLIN
MENDON
WOONSOCKET
SMITHFIELD
MINERAL SPRINGS
BOSTON 263 (116.1)
EAST BOSTON
NAS. SQUANTUM 472
BRANT ROCK
20
NAF. SO. WEYMOUTH 420
PLYMOUTH
KING
MYRICKS
PROVIDENCE
GREENE 278 (126.18)
PROVIDENCE 347
MASS. 2 D.A.
MASS. 1 D.A.
EASTHAM THUNDERTOWN
CAPE COD
CHATHAM
NAAS. OTIS
HYANNIS
NEW BEDFORD
FALMOUTH
OAK BLUFFS
MARTHA'S VINEYARD
EDGARTOWN
NANTUCKET
NAAS. CHARLESTOWN 3295 (142.74)
NAS. QUONSET PT. 356
NAS. QUONSET PT. 227 (142.74, 126.18)
N.Y. 3 D.A.
MASS. 2 D.A.
RICONN
PUTNAM
PLAINFIELD
FOSTER
WESTERLY
HARTFORD 329
TO HARTFORD
CONN.
R.I.
MASS.
R.I.
ALBANY 43
TO LEBANON
TO MONTPELIER
BLUE 4
BLUE 41
BLUE 40
AMBER 7
GREEN 2
RED 13
BOSTON AREA
BEDFORD AAF 212 (126.18)
BEDFORD AAF 522
EVERETT
REVERE
LOGAN 278 (118.7, 126.18)
SOUTH BOSTON
5
NAS. SQUANTUM 323 (142.74)
NAS. SQUANTUM 472
NAF. SO. WEYMOUTH 3295 (142.74)
NAF. SO. WEYMOUTH 420
NORWOOD
BOSTON-METRO
AMES
BROCKTON
EASTON 18
WILKINS
MANSFIELD
SHERMAN MEM.
SCALE
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
SCALE OF MILES

SAN FRANCISCO

ALL FACILITIES IN OAKLAND FLIGHT ADVISORY AREA

MEDFORD 19

LAMPSON 36 S

NORTON SKY RANCH

ALEXANDER VALLEY

SANTA ROSA 45H S

NAAS, SANTA ROSA 70 H L S

SANTA ROSA

JUSTMAN

OAK VIEW

COTATI OLF 40H

PETALUMA

CALIF. 16 D.A.

HAMILTON AAF 528

HAMILTON AAF-(-2') 80H L S-219 (126.18)

MARIN CO.

SAUSALITO 18

GOLDEN GATE

FARALLON IS. 379

SAN FRANCISCO 227

HALF MOON BAY 11

EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD.

FOR DETAILS IN THE SAN FRANCISCO AREA SEE CHART 50

EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD.

YOLO FLYERS 34 S

WINTERS 60H

WILLIAMS 326

FAIRFIELD-SUISUN AAF 248

FAIRFIELD-SUISUN AAF-50 81H L S-272 (126.18)

NAPA CO 53H S

FAIRFIELD-SUISUN 30 S

STAN'S AIRPK

VALLEJO

MARTINEZ

RICHMOND 14

BAY POINT 24

OAKLAND 335 (116.1)

NEWARK 16

BELMONT 6

EVERGREEN 38

LINCOLN 40H

McCLELLAN AAF-73 70H L S-396 (126.18)

AUBURN 31 L S

AUBURN 39

SACRAMENTO-21 60H L S-278(126.18)

BRANSTETTER

UNIVERSITY

MATHER AAF 476

MATHER AAF-87 75H L S-201(126.18)

MATHER AAF (W) 388 On request

SKY RANCH 28 S

BORGES-CLARKSBURG 25 S

MOTHER LODE

SACRAMENTO 236 (116.1)

LINDS 33 S

FRANKLIN 40H

KINGSBURY 40H

ORANGE BROS.

WEST LANE

STOCKTON 45 H L S

OAKDALE

NEW JERUSALEM 40H

MODESTO 40H S

NAAS, CROWS LANDING 70 H

LOS BANOS 32 S

DOS PALOS 29 S

EVERGREEN

HOLLISTER 44H

FRESNO 344

EAGLE

WATSONVILLE NO.1 45H L S

SANTA CRUZ

WATSONVILLE NO.2 17H

CALIF. 6 D.A.

AMERICAN LEGION 31 S

MONTEREY PENINSULA 50H S

SALINAS (W) 266

SALINAS-71 50H

CARMEL VALLEY 28 S

KING CITY 46H

CALIF. 15 D.A.

BLUE 10 · GREEN 3 · AMBER 1 · BLUE 7 · RED 46 · GREEN 3 · AMBER 1 · AMBER 1 · BLUE 46 · AMBER 8

TO DONNER SUMMIT · TO FRESNO · FRESNO 51 · TO WHEELER RIDGE · TO SANTA BARBARA

OVER

SANTA BARBARA 50

● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓔ: EXTREMELY HAZARDOUS

Ⓤ: USABLE WITH CAUTION

NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 'B' BOUNDARYS.

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SDX

SCALE OF MILES

10 0 10 20 30

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUBURN FM	(-)	FM, 220, 39	Sacramento
BAY POINT FM	(-)	FM, 190, 24	Oakland
BELMONT FM	(. - -)	FM, 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM, 123°, 37.5	Oakland
FAIRFIELD-SUISUN, (Fairfield)(Army)	248 (DFA)	SBMRAZ-DT	(3);126.18 cont.; 4220 kcs on req.
Fairfield-Suisun AAF	272 (126.18)	CA; 210°, 4.7	(3); 126.18
FARRALLON ISLAND	379 (FQ)	HW	
HALF MOON BAY FM	(- - -)	FM, 199°, 11	San Francisco
HAMILTON, (San Rafael)(Army)	528 (DHF)	HZ	
Hamilton Field	219 (126.18)	CA; 160°, 2.1	(3), 6500; 126.18. 4220 kcs on req.
MATHER, (Sacramento)(Army)	388 (DIM)	MRLWZ	Req. 1 hr. notice.
Mather Field	201 (126.18)	CA; 298°, 8.9	(3); 126.18
Mather Army (H fac.)	476 (DIM)	H	
McCLELLAN, (Sacramento)	396 (126.18)	CA	(3); 126.18
NEWARK FM	(- -)	FM, 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	SBRAZ-VDTX, 199°, 0	(4); 116.1
SACRAMENTO	236 (SZ)(116.1)	SBMRAZ-VDT	(4); 116.1
Sacramento Airport	278 (126.18)	C; 220, 1.7	(3); 126.18
SALINAS	266 (DZS)	MRLW-DT, 310°, 2.4	(8-18)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT, 291°, 3.6	(3)
SANTA ROSA NAAS (NC)	3295 (142.74)	CN	(3); 142.74 (req only)
SAUSALITO FM	(- - - -)	FM, 278°, 17.5	Oakland

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs..
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alexander Valley (Healdsburg)	3.7 ENE;riv NE	180	19 S2	80 oct. Hill SSE.
Amador Co. (Jackson)(NC)	2 NW;hwy S	1450	15	Trees S.
American Legion (Salinas)	1.8 NNW	72	31	
★ Auburn Int.10.SP-SL	3.3 N;RR SE	1510	31 L3 S6	80 oct.
Borges-Clarksburg (Clarksburg)	2.4 NNE;riv SE	15	25 S6	80 oct. No sto. Power line E.
Branstetter (Sacramento)	3 NNW;RR E	30	30 S6	73, 80 oct. Data not verified.
Carmel Valley	12.5 ESE;riv S	450	28 S4	80 oct. No sto.
(N) Cotati OLF (N)	1.5 N; RR E	94	40h	INACTIVE. Wires E.
(N) Crowe Landing NAAS (N)	2.5 NW;RR E	166	70h	INACTIVE.
Dos Palos	1.6 S;RR W	146	29 S6	80,91 oct. No sto. Pole line S.
Eagle (Dos Palos)	6.5 SW;creek N	167	23 L1 S4	80, 91 oct. No sto.
Fairfield-Suisun	1 E;RR N	7	30 S5	80 oct. Poles N, S.
(A) Fairfield-Suisun AAF(A)	5.5 NE	50	81h R2 L5 S4	73,91,100 oct. FOREIGN CLEARING STATION.
Franklin (Stockton)	5.5 SSE of Franklin	21	40h	River E.
(A) Hamilton (San Rafael)(A)	6.5 NNE;bay E	-2	80h R2 L5 S6	73-100 oct. JP-1. Twrs W.
Hollister	2.9 N; RR SW	234	44h	
Justmen (Petaluma)	1.5 ENE;RR SW	25	16 S4	80 oct. No sto.
King City	1.5 NNE;RR W	360	46h	
Kingsbury (Stockton)	6 WSW of Lodi	15	40h	RR NE.
Lampson (Lakeport)	4 SSE;hwy S	1300	36 S2	80 oct. Poles SE.
Lincoln (Sacramento)	3.2 WNW;RR NE	120	40h	
Lind's (Lodi)	4.8 N;hwy E	54	33 S6	80 oct. No sto. Poles E.
Los Banos	1.2 W; canal S	126	32 S6	80,91 oct. No sto. Poles S.
(A) McClellan (Sacramento)(A)	9 NE;RR SE	73	70h R1 L5 S4	62,73,91,100 oct. JP-1.
Martinez	0.8 N;RR S	6	20 S6	80 oct. Hill WSW.
(A) Mather (Sacramento)(A)	10.5 E;RR NW	87	75h R2 L5 S6	91,100 oct. No sto.
Modesto	2.2 ESE;riv S	100	40h L1 S6	73,80 oct. Beacon prior req.
(P) MONTEREY PENINSULA	3.4 ESE;bay N	220	50h L2 S1	80,91 oct. Lgts prior req. Data unverified.
Mother Lode (Val'y Sprgs)	6.6 NE;hwy S	1600	17 S2	80 oct. Pole line ESE, S.
(P) Napa Co. (Napa)	5.5 S;riv W	37	53h L5 S4	73,80,91 oct. No sto. Fld lgts prior req.
New Jerusalem (Stockton)	8 ESE of Tracy	56	40h	River E.
Norton Sky Ranch (Healdsburg)	5.2 NNW;RR E	225	23 S4	80,91 oct. No sto. Pole line NW.
Oak View (Petaluma)	3.3 ENE;RR SW	50	20 S1	80 oct. Pole line WNW.
Orange Brothers (Stockton)	5 N	23	20 S6	80 oct. Poles W.
Petaluma	1.7 N;RR E,W	30	15 S4	80 oct.
(P) SACRAMENTO	4 S;RR W	17	60h R2 L5 S1	80 oct. Pole line E.
Salinas	2.5 SE;RR SW	71	50h	
Santa Cruz	4.8 E;RR W	96	24 S1	80 oct.
→ Santa Rosa	7 NW;RR E	118	45h L5 S6	80,91 oct. Lgts on req.
Santa Rosa Airpark	2.8 NNW;RR SW	170	22 S1	73, 80, 91 oct.
(N) Santa Rosa NAAS (N)	2.5 SW;RR E	110	70h R1 L5 S4	91,100 oct. No sto.
Sky Ranch (Sacramento)	4 SSE;RR W	26	28 L S5	80,91 oct. Pole line SE.
Stan's Airpark (Vallejo)	2.5 NNW;RR E	5	24 S4	80 oct.
State Forestry (Davis)(NC)	3 E;hwy N	228	26	Power line W.
→ (A) Stockton	4 SSE;RR W, SW	23	45h L5 S6	80,91,100 oct.
University (Davis)	2.4 WSW;RR E,hwy S	65	37 S6	80,91 oct.
(P) Watsonville #1	2.6 NW;bay SW	178	45h L5 S6	80,91 oct.
Watsonville #2	3.8 SSW;bay W	125	17h	
West Lane (Stockton)	4.1 N;RR W	25	25 S1	73, 80 oct.
Winters Flight Strip (Davis)	6.2 WNW;hwy W	97	60h	
Yolo Flyers (Woodland)	5.5 W;hwy E	75	34 S4	80 oct. No sto. Poles E.
Vallejo Sky Harbor	3.5 NW;RR,hwy adj E.	10	25 S6	80,91 oct. (Vallejo)
Marin County Inc.	2.9 NNE;RR,hwy W	2	17 S4	80 oct. (San Rafael)

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMEDA NAS	257(126.18,142.74)	CM	(3): 126.18,142.74
NAS (Seaplane)	2870	CN	2870
BAKERSFIELD (Kern Co.)	239(BD)(116.1)	SBMRAZ-VDT:141°,1.5	(4);,116.1
BELMONT FM	(. - -)	FM; 107°, 5.8	San Francisco
BELMONT	356 (P)	FMK; 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM; 123°, 37.5	Oakland
HALF MOON BAY FM	(- - -)	FM; 199°, 11	San Francisco
KERN COUNTY, BAKERSFIELD	278 (118.5)	C (ILS)	(4):126.18,131.9,118.7
LEBEC FM	(- -)	FM. 141°, 42.	Bakersfield
LIVERMORE NAS	350 (142.74)	CN	(3):142.74 (8-17 Wed - Fri, 8-1815 Sat - Sun)
MOFFETT NAS (Mountain View)	3295	CN	(3):126.18,142.74
MOUNTAIN VIEW (Navy)(Moffett NAS)	323 (MUQ)	BMRLZ:320°, 1.9	(3):126.18,142.74
NEWARK FM	(- -)	FM: 123°, 16	Oakland
NEWARK	371 (O)	FMK: 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	SBRAZ-VDTX	(4): 116.1
Oakland Airport	278 (126.18)	C (ILS) 199°, 0	(4);126.18,118.7,131.9 (OCA)
POINT MUGU NAF	338 (142.74)	CN	3105, 6210;142.74 (8-20)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT	(3)
San Francisco Airport	269 (126.18 (118.9)	C:291°, 3.6	(4): 126.18, 118.9,131.9
SANTA BARBARA	230(SY)(116.1)	BMRLZ-VDT	(4): 126.18,142.74, 116.1
→ Santa Barbara Airport	278 (118.7)I	C; 74°, 2.2	(4);118.7 (7-23)
SANTA ROSA NAAS	3295(142.74)	CN	(3): 142.74 (req only)
SAUSALITO FM	(- - - -)	FM; 278°, 17.5	Oakland

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO, CALIF.	109.9		300° Mag.	IM (.07)	MM ····· (.80)	OM - - (4.71)
					MMK	OMK
OAKLAND, CALIF.	109.9		273° Mag.	IM ·····(.12)	MM	OM - - (2.00)
					MMK	OMK

$-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.

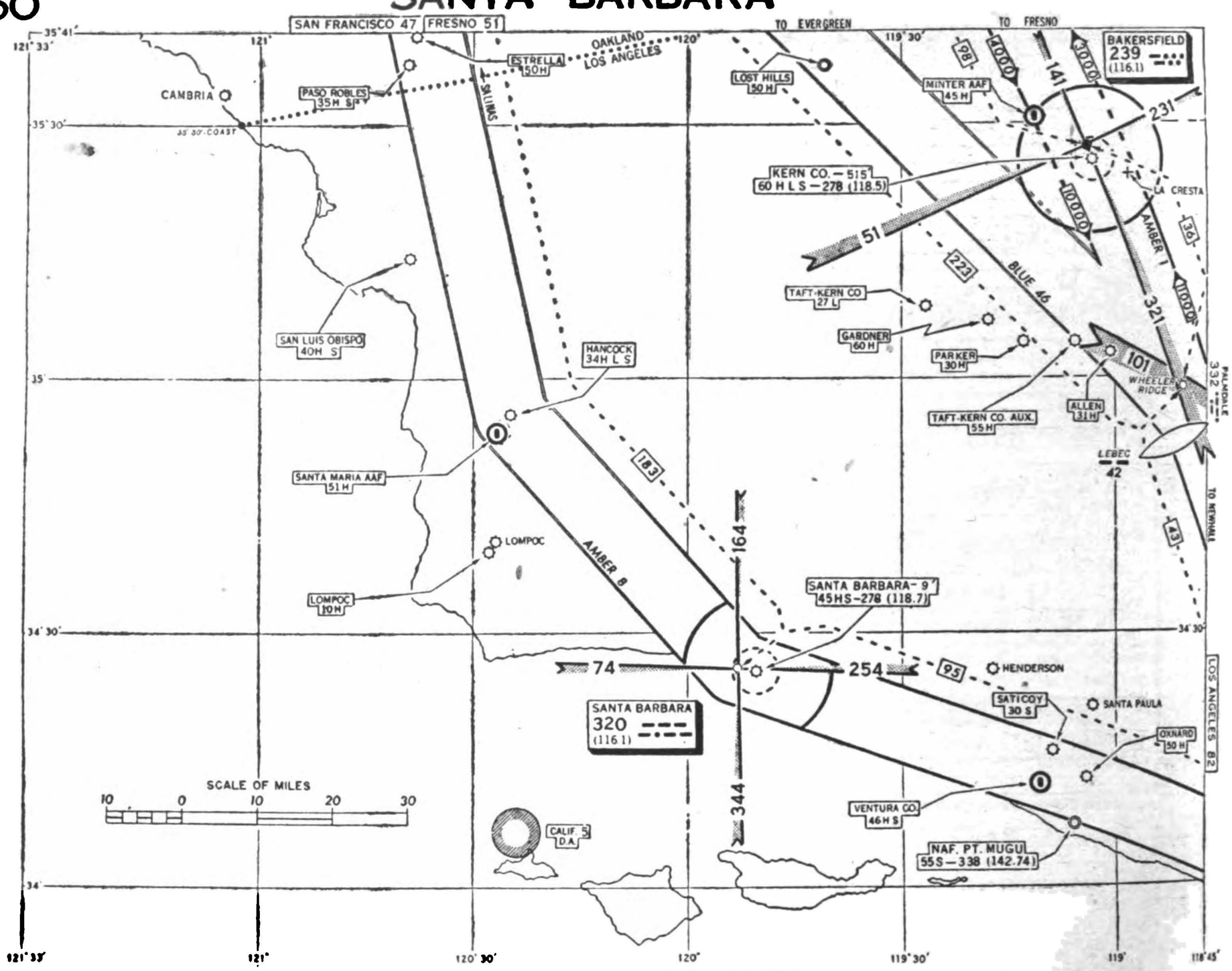
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

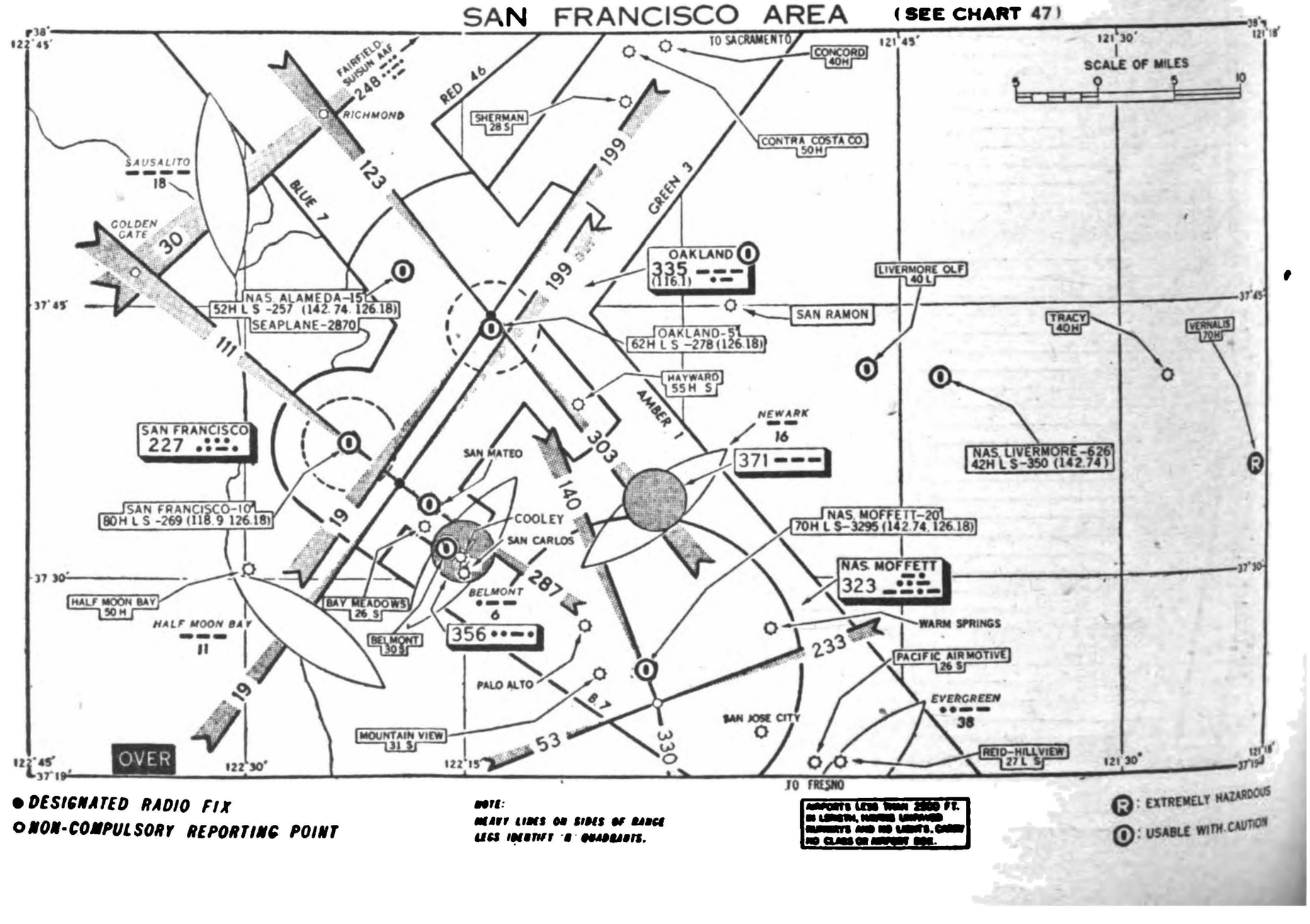
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(M) Alameda NAS (N)	4.5WNW;bayS,W	15	52h R1 L5 S6	91,100 oct. No sto. NAFC
Allen (Taft)	26 ESE	500	31h	
Bakersfield-Kern Co.#2(Bakersfield)(NC)	6 ℀;RR,hwy S	660	21	
→ Bay Meadows (San Mateo)	1.7 SE;RR W	6	26 L3 S6	80,91 oct,Bldg SSE.No ben.Strp lgts prior req.
Belmont	0.5 N;RR W	5	30 S4	73,80 oct. No sto. Bay E.
Concord	1.5NE;hwyE,S,N	104	40h	
Contra Costa County (Concord)	1.5 NW;hwy S	23	50h	
Crawford USFS (Santa Ynez)(NC)	4.2 ESE;hwy S	525	13	
Cuyama USFS (Maricopa)(NC)	16 SSW	2749	26	
→ Estrella (Paso Robles)	4.5 NE	806	50h	Use in emergency.
Gardner (Taft)	9 ESE;RR SE	444	60h	
Half Moon Bay	5.5 NW;hwy NE	36	50h	
→ Hancock (Santa Maria)	1.2 SE;RR N	236	34h L4 S4	80,91,100 oct.No ben.Pwr line,twr W.
→ Hayward	2 WSW;RR W	25	55h L5 S6	80,91 oct.No sto.Fld lgts prior req.
→ Henderson (Ojai)	3.5 WSW;RR E	600	16 S1	80 oct.
(P) Kern County (Bakersfield)	4.4 NNW;RR W	515	60h R3 L5 S1	80,91 oct.
→ La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct. Data unverified.
(N) Livermore NAS (N)	3.7 E;RR N	626	42h R1 L S6	91,100 oct. B-2, obst lgts.
(N) " OLF (N)	2 WNW;hwy E	448	40 L2	Poles E, N. Twr NE.
→ Lompoc	0.6 N;riv N	94	10h	
→ " com.	2.5 N;riv S	200	18 S1	80 oct.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	Inactive.
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	Inactive.
(N) Moffett NAS (LTA)(Mountain View)	2 NE;hwy S	20	70h R2 L4 S4	91,100 oct. No storage.(N)
→ Mountain View	2.2 NW;RR W	57	31 S6	73 oct.
(A,P)Oakland	5 S;RR SE	5	62h R3 L6 S6	73,80,91,100 oct.
→ Oxnard Landing Strip	5.5 E;RR S	78	50h	Use in emergency.
Pacific Airmotive (San Jose)	2.6 E;road SW	125	27 L S4	73,80 oct. No storage.
Palo Alto	2 ENE;bay E	5	23 S6	73,80 oct. Poles S, unlgtd.
Parker (Taft)	15 SE	550	30h	
→ Paso Robles	2.7 ESE;hwy W	810	35h S5	80,91,100 oct.
(N) Point Mugu NAF (N)	3.6 NW		55 R1 S4	73,91,100 oct. Twr, hi-line E.
Reid-Hillview (San Jose)	3.7 E;road N,S	200	27 L3 S6	73,80 oct. No ben. Poles N, S.
San Carlos	1 SE;RR SW	2	23 S6	80,91 oct. Pole line NW, SE.
(P) SAN FRANCISCO	9 SSE;bay E	10	80h R2 L5 S1	80,100 oct. No storage. Rdo req.
San Jose City (San Jose)	2 NW;RR SW	70	15 S2	80 oct. Pwr line S.
(P) San Luis Obispo	2 SSE;hwy E,S	200	40h L5 S4	80,91 oct.No sto.
San Mateo	2.2 ESE;RR E,hwy W	6	15 S6	80,91 oct. No sto.
(P) SANTA BARBARA	8.1 W;ocean S	9	45h R2 L5 S6	80,91,100 oct.Fld lgts till 2300.
(A) Santa Maria AAF (A)	3.5 S;hwy E	258	51h	Inactive.
→ Santa Paula	0.8 S;riv S	240	22 L S6	80 oct.Portable strp lgts prior req.
→ Saticoy	1.5 S;RR N	80	30 S1	80,91 oct.No sto.Trees NE.
Shafter-Kern Co.(Shafter)(NC)	3.3 SSE	500	20	
Sherman (Walnut Creek)	3 N;RR E	100	28 S4	80 oct. Poler NW, SE.
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2(Taft)(NC)	7 ESE	444	26	
Taft-Kern County Aux. (Taft)	21 SE	444	55h	
Tracy #5 (Stockton)	3.6 S Tracy	190	40h	
Ventura County (Oxnard)	1 W;hwy E	44	46h L S6	80, 91 oct, Flares prior req.
Vernalis	2.3 S	212	70h	
Warm Springs	2.3 SSE;RR W	100	23	
Cooley #14 (San Carlos)	2.9 NNW;RR S,hwySW	6	21 S6	80,91 oct.
→ Cambria	0.9 SSE; hwy E	350	19	Trees W,NW.
San Ramon	2.5 SE;RR sdg E	440	25 S2	80,91 oct.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

SANTA BARBARA



SAN FRANCISCO AREA (SEE CHART 47)



● DESIGNATED RADIO FIX

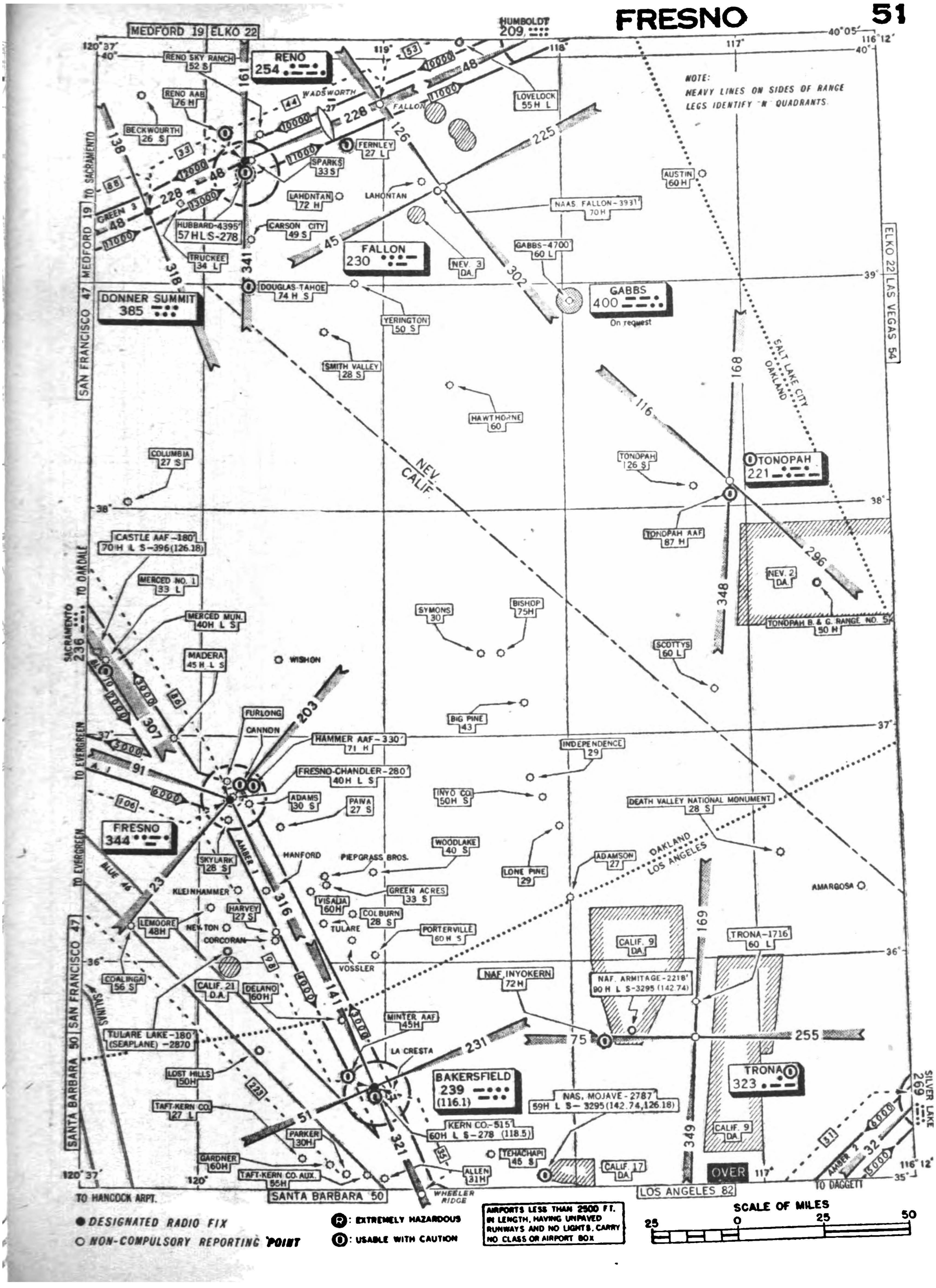
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS. CREW NO CLASS OR AIRPORT USE.

Ⓡ : EXTREMELY HAZARDOUS

Ⓞ : USABLE WITH CAUTION


MEDFORD 19 ELKO 22
HUMBOLDT 209
RENO 254
RENO SKY RANCH 52 S
RENO AAB 76 H
BECKWOURTH 26 S
WADSWORTH
FALLON
LOVELOCK 55 H L
FERNLEY 27 L
SPARKS 33 S
LAHONTAN 72 H
LAHONTAN
AUSTIN 60 H
NAAS, FALLON - 3931' 70 H
HUBBARD-4395' 57 HLS-278
CARSON CITY 49 S
FALLON 230
GABBS-4700' 60 L
TRUCKEE 34 L
NEV. 3 DA.
DOUGLAS-TAHOE 74 H S
DONNER SUMMIT 385
GABBS 400
On request
YERINGTON 50 S
SMITH VALLEY 28 S
HAWTHORNE 60
SALT LAKE CITY OAKLAND
TONOPAH 126 S
TONOPAH 221
TONOPAH AAF 87 H
NEV. CALIF
COLUMBIA 27 S
CASTLE AAF - 180' 70 H L S - 396 (126.18)
NEV. 2 DA.
TONOPAH B. & G. RANGE NO. 5 50 H
SYMONS 30
BISHOP 75 H
SCOTTYS 60 L
MERCED NO. 1 33 L
MERCED MUN. 40 H L S
MADERA 45 H L S
WISHON
BIG PINE 43
FURLONG
CANNON
HAMMER AAF - 330' 71 H
INDEPENDENCE 29
FRESNO-CHANDLER - 280' 40 H L S
ADAMS 30 S
PAIWA 27 S
INYO CO. 50 H S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
KLEINHAMMER
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
AMARGOSA
GREEN ACRES 33 S
VISALIA 60 H
COLBURN 28 S
TULARE
PORTERVILLE 60 H S
HARVEY 27 S
LEMOORE 48 H
NEWTON
CORCORAN
VOSSLER
CALIF. 9 DA.
TRONA - 1716 60 L
COALINGA 56 S
CALIF. 21 D.A.
DELANO 60 H
NAF, INYOKERN 72 H
NAF. ARMITAGE - 2218' 90 H L S - 3295 (142.74)
MINTER AAF 45 H
TULARE LAKE - 180' (SEAPLANE) - 2870
LA CRESTA
LOST HILLS 50 H
BAKERSFIELD 239 (116.1)
TRONA 323
NAS, MOJAVE - 2787' 59 H L S - 3295 (142.74, 126.18)
TAFT-KERN CO. 27 L
KERN CO. - 515' 60 H L S - 278 (118.5)
PARKER 30 H
GARDNER 60 H
TEHACHAPI 45 S
CALIF. 17 DA.
CALIF. 9 DA.
TAFT-KERN CO. AUX. 55 H
ALLEN 31 H
WHEELER RIDGE
SANTA BARBARA 50
LOS ANGELES 82
OVER
TO DAGGETT
TO HANCOCK ARPT.
SILVER LAKE 269
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION
AIRPORTS LESS THAN 2900 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX
SCALE OF MILES
25 0 25 50

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARMITAGE (Inyokern)	3295(142.74)	CN	(3);126.18,142.74(days)
BAKERSFIELD (Kern Co.)	239 (BD)(116.1)	SBMRAZ-VDT,141°,1.5	(4); 116.1
CASTLE FIELD (Merced)	396 (126.18)	CA	(3); 126.18
FRESNO (Fresno-Chandler)	344 (FT)	SBRAZ-DT, 23°.0.9	(4)
KERN CO., (Bakersfield)	270 (113.5)	C(ILS)	(4);126.18,131.9,118.5
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
TRONA (Int.)	323 (EW)	SBMRAZ-DT, 349°,11	(4) Not manned cont.
TULARE LAKE SEAPLANE ANCHORAGE	2870	CN	
NEVADA			
FALLON (NAAS)	230 (VA)	SBRAZ-DT, 219°,2.9	(4) not manned cont.
GABBS (Int.)	400 (GZ)	MHF	(4) not manned cont.
HUBBARD FLD (Reno)	278	CI	(4);Wed,Sat,Sun 6-19, other days 8-1630)
RENO (Hubbard)	254 (RP)(116.1)	SBRAZ-VDT,161°,3.3	(4); 116.1
TONOPAH (AAF)	221 (RY)	SBRAZ-DT,168°,2.8	(4) not manned cont.

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO., CALIF.	109.9		300° Mag.	IM (.07)	MM ·····(.80)	OM --(4.71)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station: (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Fresno)	4 SE;RR S,W	295	30 S6	80,91 oct.No sto.Poleline NNW,SSE.
Adamson (Olancha)	0.6 SE;hwy W	3648	27	30' poles W; 75' twr E.
Allen (Taft)	26 ESE	500	31h	
Amargosa (Death Valley Jct)	0.7 W;hwy E	2037	22 S1	73 oct. Pole line S.
Bakersfield-Kern Co.#2(NC)	6 E;RR, hwy S	660	21	
Big Pine	3.4 ESE;RR W	4000	43	1500'mts SE;1000' mts E.
Bishop	2 ENE;riv E	4121	75h L5	All lgts prior req.
Bryant (Bridgeport)(NC)	0.3 NNE;hwy SW	6465	40	
Cannon (Fresno)	2 N;RR W	310	19 S6	80 oct.Pole line NNW.
(A) Castle (Merced) (A)	7 NW;RR SW	180	70h R1 L5 S6	91,100 oct. JP-1.
Coalinga	1.5 N;hwy E	664	56 S4	80 oct. Hill N,W.
Colburn (Lindsey)	4.7 W;RR E	325	28 S4	73, 91 oct.
Columbia (Sonora)	4 NNW;hwy E	2150	27 S6	73,80 oct.
Corcoran	1.3 WNW;rd S	220	19 S4	73,80 oct.No sto.Poles N, NW, SE.
Cornell (Porterville)(NC)	2.4 SSW;RR E	470	26	Poles SE.
Death Valley (Furnace Creek)	1 WNW	-178	28 S2	87,100 oct.
Defense Plant Corp.(Tulare)	6 SE;RR W	283	23	(NC)
Delano	1.5 SE;RR W	315	60h	
FRESNO-CHANDLER (Fresno)	1.8 W;hwy N	280	40h R1 L5 S6	73,80,91,100 oct.No sto.
Furlong (Fresno)	5.5 NW;RR W	285	33 S6	80,91 oct.
Gardner (Taft)	9 ESE;RR SE	444	60h	
Great Western (Reedley)(NC)	5 N;RR W	380	20	
Green Acres (Visalia)	1.5 NW;RR S	300	33 S6	80 oct.Pole line SE.
(A) Hammer (Fresno)(A)	4.8 NE;rds N,E	330	71h	INACTIVE.
Hanford	1.2 SE;RR W	250	20 S4	80 oct.
Harvey (Corcoran)	2.7 NNW;RR W	200	27 S4	80 oct.No sto.
Independence	0.9 N;hwy W	3926	29	Trees S.
Inyo County (Manzanar)	0.5 E;hwy W	3875	50h L5 S2	80 oct.All lgts prior req.
(N) Inyokern NAF (N)	0.5 WNW; RR E	2455	72h	INACTIVE.
(P) KERN COUNTY (Bakersfield)	4.4 NNW;RR W	515	60h R3 L5 S1	80,91 oct.
Kleinhammer (Lemoore)	1.2 N;hwys S	225	16 S2	80 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data unverified.
Lemoore	9 SW;RR NW	241	48h	
Lone Pine	0.8 SE;RR E	3700	29	Hazardous.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(N) Armitage NAF (Inyokern)(N)	8 ENE	2218		91,100 oct.No sto.CLOSED
Boston Land Co.(Westhaven)	1.7 SSW;hwy N.	300	31	

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV)(NC)-Not charted. →

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Madera	3.5 WNW;hwy E	271	45h L5 S4	80-100 oct. No sto.
Mariposa (NC)	4.5 NW;hwy SW	2250	21	
(P) Merced, mun.	1.6 WSW;RR NE	152	40h L5 S6	80,100 oct,No sto.
Merced #1	2.5 NW;RR SW	165	33 L3	No beacon
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	INACTIVE.
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Monache Meadow (Olancha)	10.8 WSW	8000	25	USFS. (NC)
Newton (Stratford)	2.7 SSW;riv E	194	23 S4	80 oct.No sto.Pwrline N,NW
Paiva Intercity (Parlier)	1.5 WSW;RR NE	330	27 S4	80 oct.Poles ESE.
Parker (Taft)	15 SE	550	30h	
Piepgrass Brothers (Visalia)	3.7 NNW;riv S	320	20 S2	80 oct.
Porterville	3 SW;RR E	430	60h S1	91 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
Sequoia (Visalia)(NC)	8.5 NNW;RR E	310	23	
Shafter-Kern Co.(Shafter)(NC)	2.3 SSE;RRadj E	340	20	
Skylark (Fresno)	8.5 SSW;RR SW	255	28 S6	80,91 oct.
Symons (Bishop)	4 W; hwy N	4350	30	
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2 (Taft)	7 ESE	444	26	(NC)
Taft-Kern Co. Aux. (Taft)	21 SE	444	55h	
Tehachapi	1 N; RR S	3952	45 L S2	73,91 oct. Pole line SE.
Templeton Meadow (Olancha)	12 W	8800	20	S and W blocked. USFS.(NC)
★ Trona Int, 13, RV-ND	5 NE;rd W	1716	60 R1 L3	Fld sur by mtns.
★ Truckee Int, 16B, SF-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec.-Apr.
Tulare	2.9 SSE; RR W	300	20 S6	80,91 oct. No sto.
Tunnel (Olancha) USFS (NC)	16.5 WNW;riv S	9100	21	Mtns - timber 2000' NE.
Visalia	5 W;RR W	300	60h	
Vossler (Woodville)	1.3 E;hwy S	345	25	Trees N, S.
Wishon (Bass Lake) USFS	1.5 WNW	3380	22 S1	Ltd 73 oct. Trees NNW.
Woodlake	2.6 ESE; lake NW	450	40 S4	80 oct. No sto.
NEVADA				
(P) Austin	7 WSW;riv NW	5730	60h	
Carson City	3.1 NE;hwy W	4684	49 S6	80 oct.Mts N, hill W.
(P) Douglas-Tahoe (Minden)	2.8 NNE;RR W	4709	74h S6	73 oct.
★ Fernley Int, 22, SF-SL	3.3 E;hwy NW	4156	27 L2	
(N) Fallon NAAS (N)	6 SE;hwy S	3931	70h R1	INACTIVE.
★ Gabbs Int, 36, RV-ND	4 NW;hwy E	4700	60 R1 L3	
(N) Hawthorne	2 N;lake NNW	4200	60 L	Emerg. lgtg on ½ hr req.
HUBBARD (Reno)	3.4 SE;RR N	4395	57h R2 L5 S4	80,91 oct. Fld lgts prior req.
Lahontan (Fallon)	1.4 SSW;hwy N	4000	24 S4	80 oct.Poles ENE,WSW.Hwy W
Lahontan Flight Strip (Fernley)	15.5 S;hwy N	4279	72h	
Lovelock	1.5 ENE;riv W	3986	31 S2	80 oct.
Manhattan (NC)	6.8 W;hwy W	5850	40	
(A) Reno AAB (A)	10.5 NNW;RR SW	5018	76h	INACTIVE. Mtns sur fld.
Reno Sky Ranch (Sparks)	8.5 NNE;hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
★ Scottys Int,22,RV-ND	9 SSE Gold Pt.	4300	60 L2	
Smith Valley	1 ESE;hwy N	4850	28 S6	73,80 oct.
Sparks Airpark	0.6 N;RR S	4400	33 S6	80,91 oct. Pole line W.
Tonopah	3.2 WNW;RR S	5600	26 S1	73 oct. by truck
(A) Tonopah AAF (A)	8 E;hwy N	5427	87h R1	INACTIVE.
(A) Tonopah B & G Range #5 (A)	44.5 SE	5335	50h	Dry lakes N.
Yerington	1.2 N;RR W	4483	50 S1	73 oct.

NEW OR REVISED DATA

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT (Love)	347(PN)(116.1)	SBRAZ-VDT,142°,5.5	(4), 116.1

CALIFORNIA

NEEDLES	400(NJ)(116.1)	BMRLZ-VDT,195°,2.2	(4), 116.1
SILVER LAKE (Int.)	269(RL)(116.1)	SBMRAZ-VDT,132°,1.9	(4), 116.1

NEVADA

CRYSTAL FM	(-)	FM, 28°, 30	Las Vegas
LAS VEGAS	206(LQ)(116.1) (111.1)	SBMRAZ-VDT	(4)131.7,116.1 only
Las Vegas AAF	278(126.18,118.7)	C (ILS),34°, 1.9	(4), 131.9,118.7,126.18

UTAH

BRYCE CANYON (Int.)	108.3(BV)(111.1) (116.1)	VAR-VDPT,35°,0.8	3117.5,131.7,116.1, 129.7 cont.(3)req.
ENTERPRISE(Int.)	341(NP)(116.1)	SBMRAZ-VDT,20°, 3.1	(4), 116.1
MILFORD	320(MD)(116.1)	BMRLZ-VT,20°,1	(4), 116.1
ST.GEORGE	108.7(GX)(111.1) (116.1)	VAR-VDP,229°,7.8	3117.5;131.7,116.1, 129.7(3) on req.

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs.; Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LAS VEGAS AAF, NEV.	110.3		25°Mag	IM	MM ·--- (.66)	OM -- (4.2)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (4)-3105,4495,6210,3117.5 kcs.; (3)-3105,4495,6210 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* Ashfork Int,36A, LA-AQ	4.3 W,RR S	5089	41 L3	
Clemenceau (Cottonwood)	1.7 SSW,hwy NE	3400	29 S4	73 oct.
Ernest A.Love (Prescott)	8 NE,RR E	5042	60h R1 L5 S6	80,91,100 oct.
Fredonia	1 NE,hwy W	4800	34	
Grand Canyon South Rim	14.8 S,RR W	6362	50 S2	80 oct.Trees ENE.
Kingman	8.5 NE,hwy NW	3395	65h	
Mohave Co.(Kingman)	6.5 NW,hwy E	2850	34 S1	73 oct.

ARIZONA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Port Kingman (Kingman)	3 NE,RR S,E	3435	54 L3 S1	80,91 oct.All lgts prior req.
Seligman Int,32,	16 W,road S.	5333	43 L3	LA-AQ
Valle	2.3 E RR W	5990	60 L3	Fld lgts prior req.
Verde Valley(NC)	1.8 SE,riv W	3400	30	(Cottonwood)
Williams	4.3 N,RR E	6600	41 S6	80 oct,Mts SW.
Yucca	1.5 NE,RR W	1975	60h	

CALIFORNIA

*	Bagdad Int,16,LA-AQ	1 S,RR N	700	40 L3	
	Needles	5.5 S,hwy E	918	58h R1 L3	
	Riverview(Needles)	1.4 S,riv N	500	27 S1	80,91 oct.Trees NNE
*	Silver Lake Int,18, LA-SL	2.5 SSE,RR E	924	40 R1 L3	Rnwy data unverif.

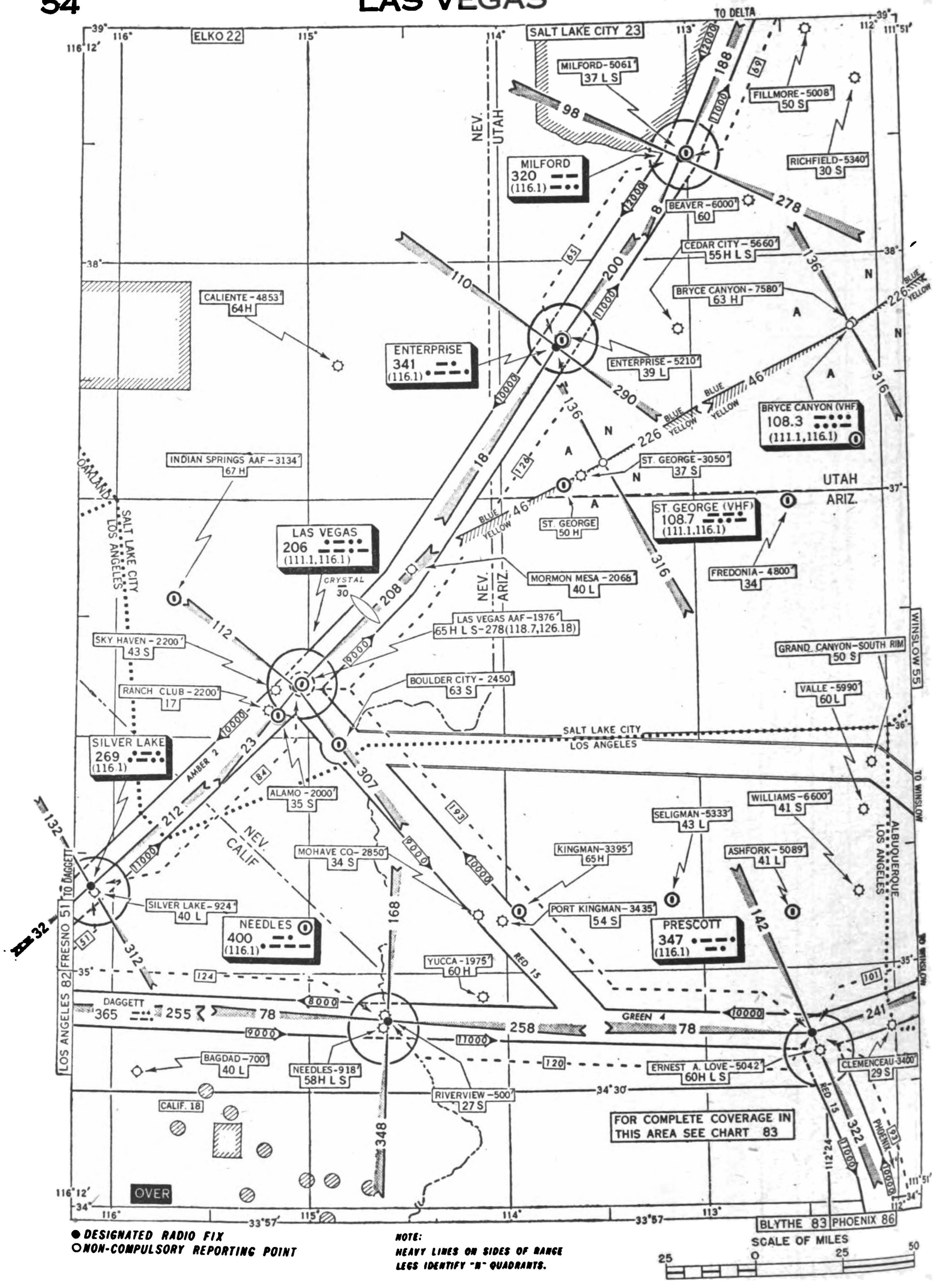
NEVADA

	Alamo (Las Vegas)	5.5 SSW,RR SW	2000	35 S4	73,80,91 oct.
(N)	BOULDER CITY	1.8 SW,RR W	2450	63 L1 S4	73,80 oct,by truck;91 oct for airlines.
	Caliente Flgt Strip	19 W,hwy N	4853	64h	
(A)	Indian Springs(A)	2 WNW	3134	67h	INACTIVE.
(A)	Las Vegas AAF(A)	7.8 NE,hwy NW	1876	65h R3 L5 S6	100 oct. No sto.
*	Mormon Mesa Int, 31B,LA-SL	6 ENE Glendale	2068	40 L3	
	Pahranagat(Alamo)	0.7 W,hwy E	4300	26	(NC)
	Ranch Club(Las Vegas)	5.5 SW,RR E	2200	17	Mts WSW,ENE,E.
	Searchlight Landing Strip (NC)	10.8 SSE,hwy E	2536	40	
	Sky Haven	3.3 NW,hwy W	2200	43 S4	80,91 oct.(Las Vegas)

UTAH

	Beaver	3.2 SSW,hwy E	6000	60	
*	Bryce Canyon Int, 45, LA-DV	5 N,hwy S	7580	63 L3 S2	No fuel.
	Cedar City	2.3 NW,hwy W	5660	55h L5 S6	80,91 oct.
*	Enterprise Int,39,	8 NNE,hwy N	5210	39 R1 L3	LA-SL
	Fillmore	2 WSW,hwy SE	5008	50 S2	73 oct.
	Milford,45,LA-SL	2.3 NNW,RR E	5061	37 R1 L3 S1	80 oct.
	Richfield	1.8 SSW,RR E	5340	30 S4	80 oct.
	St.George	1.5 SSW,riv SSE	3050	37 L2 S4	80 oct.Fld lgts & svcg prior req.
*	St.George Int,36, LA-DV	6 SE		50h	

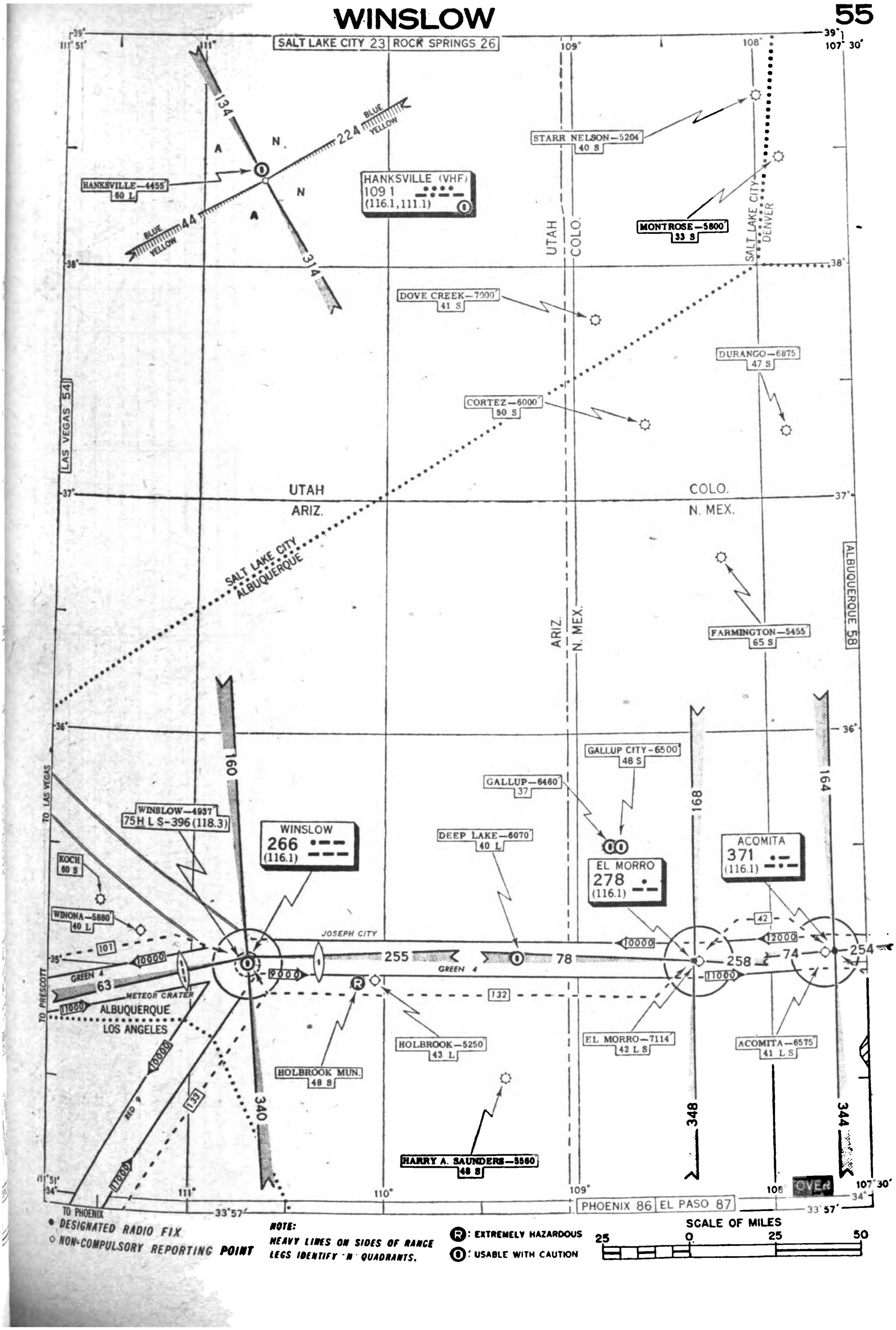
LAS VEGAS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

WINSLOW


SALT LAKE CITY 23 | ROCK SPRINGS 26
39° 111° 51'
111°
109°
108°
39° 107° 30'
134
224
BLUE YELLOW
A
N
HANKSVILLE—4455 60 L
HANKSVILLE (VHF) 109 1 (116.1,111.1)
STARR NELSON—5204 40 S
44
BLUE YELLOW
314
UTAH
COLO.
MONTROSE—5800 33 S
SALT LAKE CITY
DENVER
38°
DOVE CREEK—7000 41 S
DURANGO—6875 47 S
CORTEZ—6000 50 S
LAS VEGAS 54
37°
UTAH
ARIZ.
COLO.
N. MEX.
SALT LAKE CITY
ALBUQUERQUE
ARIZ.
N. MEX.
FARMINGTON—5455 65 S
ALBUQUERQUE 58
36°
160
GALLUP CITY—6500 48 S
GALLUP—6460 37
168
164
TO LAS VEGAS
WINSLOW—4937 75H L S-396 (118.3)
WINSLOW 266 (116.1)
DEEP LAKE—6070 40 L
EL MORRO 278 (116.1)
ACOMITA 371 (116.1)
KOCH 60 S
WINONA—5880 40 L
JOSEPH CITY
42
10000
12000
101
35°
255
78
258
74
254
GREEN 4
GREEN 4
9000
11000
63
METEOR CRATER
132
TO PRESCOTT
ALBUQUERQUE
LOS ANGELES
HOLBROOK—5250 43 L
EL MORRO—7114 42 L S
ACOMITA—6575 41 L S
HOLBROOK MUN. 48 S
RED 9
133
340
348
344
HARRY A. SAUNDERS—5560 48 S
OVER
111°51' 34°
111°
110°
109°
108°
107°30'
33°57'
34°
PHOENIX 86 | EL PASO 87
TO PHOENIX
SCALE OF MILES
25 0 25 50
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JOSEPH CITY FM	(-)	FM, 75°, 20	Winslow
METEOR CRATER FM	(- - -)	FM, 243°,18	Winslow
WINSLOW	266(WO)(116.1)	SBRAZ-VDT	(4), 116.1
Winslow Airport	396 (118.3)	C, 160°, 1.5	(4),118.3,131.9,126.18. (6-18)
NEW MEXICO			
ACOMITA (Int.)	371(AK)(116.1)	BMLZ-VDT,254°,1.9	(4), 116.1
EL MORRO (Int.)	278(EM)(116.1)	BMRLZ-VDT,5°,0.1	(4), 116.1
UTAH			
HANKSVILLE Int.	109.1(HY)(111.1) (116.1)	VAR-VDP,314°,2.8	3117.5:116.1,131.7,129.7 (3) on req. Not manned cont.

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cameron (NC)	1.4 NE;hwy W	4200	50	
★ Deep Lake Int,54A, LA-AQ	1.5 W;hwy E	6070	40 L3	Poles S.
Holbrook	2.2 NNE;RR SE	5200	48 S4	80 oct.
" Int,50,LA-AQ	6.6 ENE;hwy N	5250	43 L3	
Koch (Flagstaff)	9.8 NE;hwy S	6587	60 S1	Ltd 80 oct. Hills SW
Saunders, Harry A. (St. Johns)	1.1 NNW,hwy S	5560	48 S2	80 oct. 25' poles NE
Window Rock(NC)	0.8 SSW;rd N	6800	52	Bluffs ENE,NNE
★ Winona Int,43A, LA-AQ	8.9 ESE;hwy N	5880	40 L3	
(P) WINSLOW	2 SW;RR N	4937	75h R2 L5 S1	91 oct.
COLORADO				
(P) Cortez	3.1 SW;hwy E	6000	50 S4	80 oct.
Dove Creek	0.6 E;creek W	7000	41 S1	80 oct. Pwr line SSW
(P) Durango	1.5 NE	6875	47 S6	80 oct.
Mancos (NC)	1.4 NNE;RR S	7500	30	
Montrose	1.3 S,RR NE	5800	33 S4	73 oct.
Starr Nelson(Delta)	4 E;road N	5204	40 S4	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC) Not charted.

NEW MEXICO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Acomita Int,63, LA-AQ	7.8 W;hwy N	6575	41 R1 L3 S1	73,91 oct. in emerg.
Cubero (NC)	2.4 W;hwy S	6200	30	Pole line S. 11,000' mtns N.
★ El Morro Int,59B, LA-AQ	4.5 WSW;lake NW	7114	42 R1 L3 S1	Ltd 91 oct. Rough.
Farmington	1.4 NW on mesa	5455	65 S6	80, 91 oct.
Gallup	4 W;hwy;RR S	6460	37	Poleline SSW
Gallup City	2.6 WSW;RR N	6500	48 S4	80 oct. Pole line WSW.
Indian Service (Shiprock) (NC)	1.8 SSW;riv N	5100	19	Pole line NW.
Aztec (NC)	2.2 NW on mesa	5700	28	Emerg only.
UTAH				
★ Hanksville Int,54, LA-DV	4 NE	4455	60 L3	
Monument Valley (Goulding Trading Post)	0.5 N;hwy E	5284	30	

RADIO

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COLORADO SPRINGS (Peterson)	224 (CD)	MRLWZ,166°,3.9	
FOUNTAIN FM	(- - - -)	FM;334°,32.7	Pueblo.
LA JUNTA AAF	281(LH)	SBMRLZ-DT;194°,2.6	(4)
PETERSON FIELD(Colorado Springs	272 (126.18)	CA	(4);116.1,126.18
PUEBLO	302 (PU)	SBRAZ-DT;340°,2	(4)
TRINIDAD	329 (TD)	SBMRAZ-DT;170°,3	(4)

NEW MEXICO

ALBUQUERQUE (Kirtland)	230(AB)(116.1)	SBRAZ-VDT;354°,3	(3); 116.1
ANTON CHICO (Int)	219(AC)(116.1)	MHVT	(4); 116.1
CLOVIS (Army)	203 (DCV)	BMRAZ	(3)
Clovis AAF	396 (126.18)	CA(ILS);34°,6.2	(3); 126.18
Clovis AAF	526 (DCV)	HW-DT; 130°,1.6	
JUAN TOMAS FM	(- -)	FM; 71°, 18	Albuquerque
KIRTLAND FIELD (Albuquerque)	396 (126.18)(118.7)	AC	(4);126.18,118.7,131.9;
LAS VEGAS	359(VH)(116.1)	SBMRAZ-VDT;80°,3.2	(4)
MAXWELL FM	(- -)	FM, 170°, 54	Trinidad, Colo.
OTTO (Int.)	290(OT)(116.1)	BMRLZ-VDT;74°,0.2	(4); 116.1
PERALTA FM	(- - -)	FM, 174°, 11.6	Albuquerque
SANTA FE (New)	206(SJ)(116.1)	MHVT	(4); 116.1
SOCORRO	206(OS)(116.1)	MHVT	(4); 116.1
TUCUMCARI	212(YC)(116.1)	SBMRAZ-VDT;76°,2.2	(4); 116.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
CLOVIS AAF, N. MEX.	109.9		33° Mag.	IM (.23)	MM ·····(.86)	OM --(4.36)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

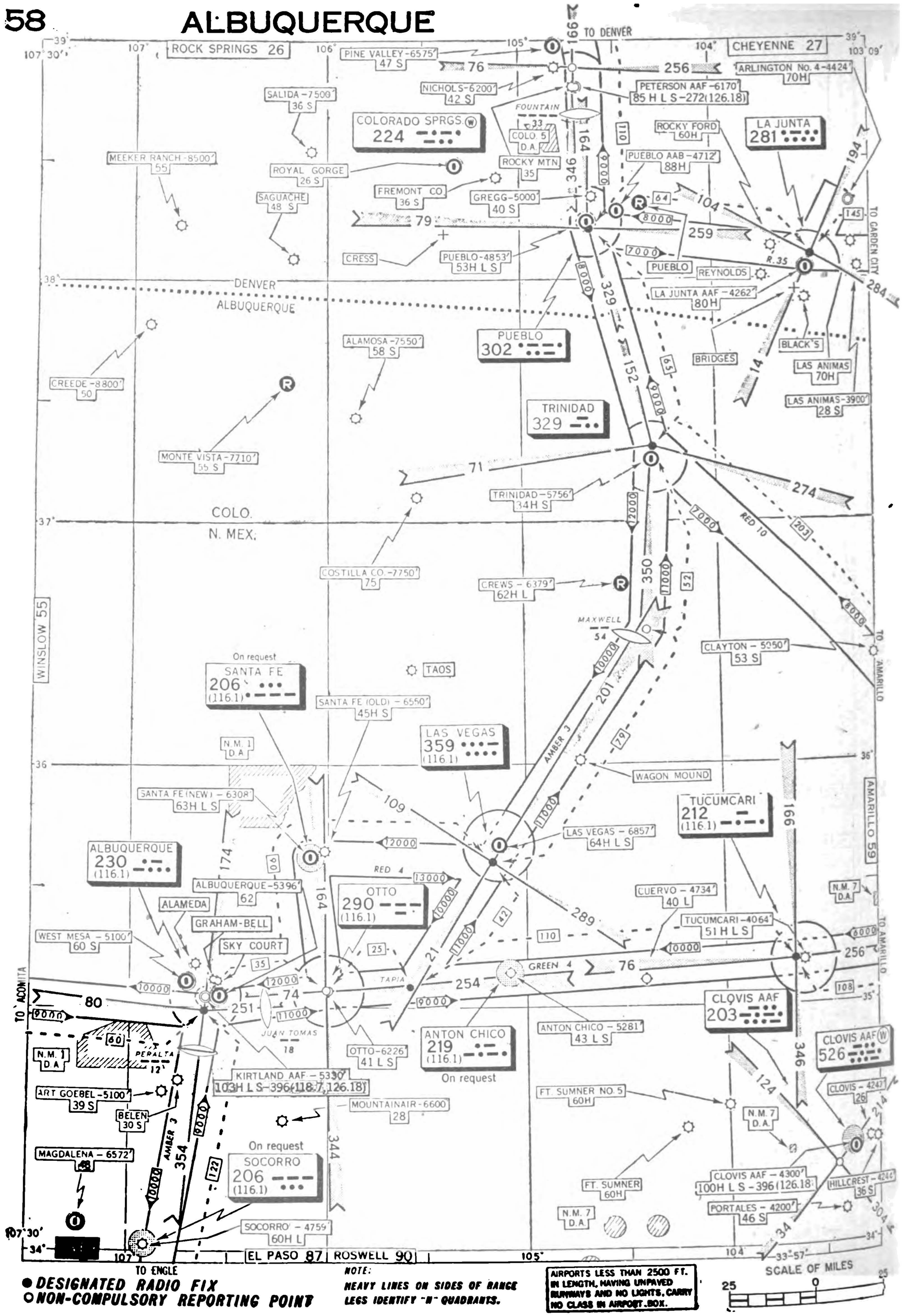
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamosa	2 S; hwy W	7550	58 L3 S4	80 oct. Fld lgts prior req.
(A) Arlington #4(La Junta)(A)	28 NNE	4424	70h	Arlington 3.3 WNW. INACTIVE.
Black's (La Junta)	4.8 S;riv 5 S	4250	21	
Costilla County(Mesita)	4 E; RR W	7750	75	
Creede	2 SSE;hwy NW	8800	50 S2	No fuel. Rough off strips.
Cress (Westcliff)	6 W	8000	30 S1	80 oct. Pole line E.
Fremont Co. (Canon City)	6.9 E; riv S	5350	36 S2	80 oct.
Gregg (Pueblo).	6 N;RR,hwy E	5000	40 S1	80 oct.
(A) La Junta AAF (A)	4.4 NNE;rd W	4262	80h R1	INACTIVE.
La Junta Bridges (La Junta)	3 SW; hwy E		30 S1	80 oct. Data not verified.
Las Animas	1.4 S; RR N	3900	28 S4	80 oct. Poles W.
Las Animas (La Junta)	19 NE	4119	70h	Las Animas 5.9 SSE.
Meeker Ranch (Gunnison)	23 SSE;riv E	8500	55	
Monte Vista	3.5 W; RR N	7710	55 S4	80 oct.
Nichols (Colorado Spgs)	2.8 NNR;hwy W	6200	42 S6	80,91 oct. Pole line SE,NE,N.
Ordway (NC)	0.9 S; RR N	4300	40	NOT MAINTAINED.
(A) PETERSON (Colorado Spgs)	6.3 E; hwy N	6170	85h R2 L5 S6	73,91,100 oct. No sto. (A)
Pine Valley(ColoradoSpgs)	9.2 N;;hwy E	6575	47 S6	80,91 oct. Poles E,W,NNW.
(P) PUEBLO	2.1 SW	4853	53h R1 L5 S6	80,91 oct.
(A) Pueblo AAB (A)	7 NE; RR S	4712	88h	INACTIVE.
Reynolds (Rocky Ford)	3.5 SSW;hwy S	4250	21	Pole line NE
Rocky Ford (La Junta)	13.8 NW	4367	60h	Rocky Ford 6 S.
Rock Mtn.(Colorado Spgs)	6 ESE	6100	35 S2	No fuel.
Royal Gorge(Canon City)	6.4 NW; hwy N	6320	26 S2	80,91 oct. Pole lines N.
Saguache	2 W; hwy NE	7700	48 S1	Ltd 73 oct.
Salida	4 W; RR S	7500	36 S2	80 oct.
Trinidad	10.5 ENE;hwy E	5756	34h R1 L1 S1	80 oct. Use rnwys only.

NEW MEXICO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alameda (Albuquerque)	7.4 N; RR E	5400	37	
Albuquerque	6.3 ESE;hwy N	5429	62	RFC surplus acft fld.
★ Anton Chico Int,78A,LA-AQ	4.5 SE; hwy E	5281	43 R1 L3 S1	91 oct.
Art Goebel (Belen)	3.2 W; RR E	5100	39 S1	Ltd 73 oct.
Belen Air Strip	2.7 N; RR E	5000	30 S1	73 oct.
Clayton	1.5 E; RR S	5050	53 S2	73 oct.
Clovis	0.8 NW;RR S	4247	26	
(A) Clovis AAF (A)	6.5 W; RR N	4300	100hR3 L5 S6	73,91,100 oct.
(P) Crews,42,EO-PU (Raton)	11.5 SSW;hwy W	6379	62h L2	
★ Cuervo Int,81B,LA-AQ	5 N	4734	40 L3	Poles W, lgtd.
Cutter-Carr #2 (Albuquerque)	3.6 NE; RR W	5120	46	Pole line ENE. (NC)
Eagle Nest Lndg Strip(NC)	1 NE	8450	40	11,000' mts NE. Use in emergency.
Ft. Sumner	1.5 NNE;RR S	4166	60h	
" " #5	16 ENE	4830	60h	
Graham-Bell(Albuquerque)	4.5 ENE	5400	27 S6	73,91 oct.
Hillcrest (Clovis)	2.1 E; RR S	4244	36 S4	73 oct. No sto.Pole line S.
Holbrook's (Cuervo)(NC)	0.8 NE; RR S	4810	19	300' mt. S
(A) KIRTLAND (Albuquerque)(A)	3.8 SSE; rd N	5330	103hR2 L6 S6	73,91,100 oct. JP-1. No sto.
LAS VEGAS	6 NE; RR W	6857	64h R1 L5 S6	80,91 oct.
Magdalena	0.8 N; RR S	6572	48 S1	Ltd 73 oct. Pole line SW.
Maxwell (NC)	1.7 N; hwy E	6000	36	
Mountainair	1.1 NNE;RR S	6600	28	Pole line N.
→ ★ Otto Int,73A,LA-AQ	5.8 N Moriarty	6226	41 R1 L3 S1	Ltd 80,91 oct.
Portales	4.5 SW;RR NNW	4200	46 S1	73 oct.
Roy (NC)	1.5 N; RR W	5900	26	PRIVATE
SANTE FE (new)	9.8 WSW;hwy SE	6308	63h R1 L5 S1	91 oct airlines. Poles E.
" (old)	6.3 SW;hwy E	6550	45h S6	73,80 oct;91 oct in emerg.
Sky Court (Albuquerque)	5.6 ENE;hwy S	5400	30 S6	73 oct. No sto.
Socorro	2.5 S; hwy E	4759	60h R1 L5	Use rnwys only.
Taos	1.7 SSW;hwy W	6956	29	Poles ENE,WSW,WNW.
Tucumcari	7 E;hwy,RR S	4064	51h R1 L5 S6	80,91,100 oct.
Wagon Mound	0.6 WNW;RR E	6500	21	Fence N; mts SE, W.
West Mesa (Albuquerque)	3.8 W; hwy S	5100	60 S6	73,80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

ALBUQUERQUE

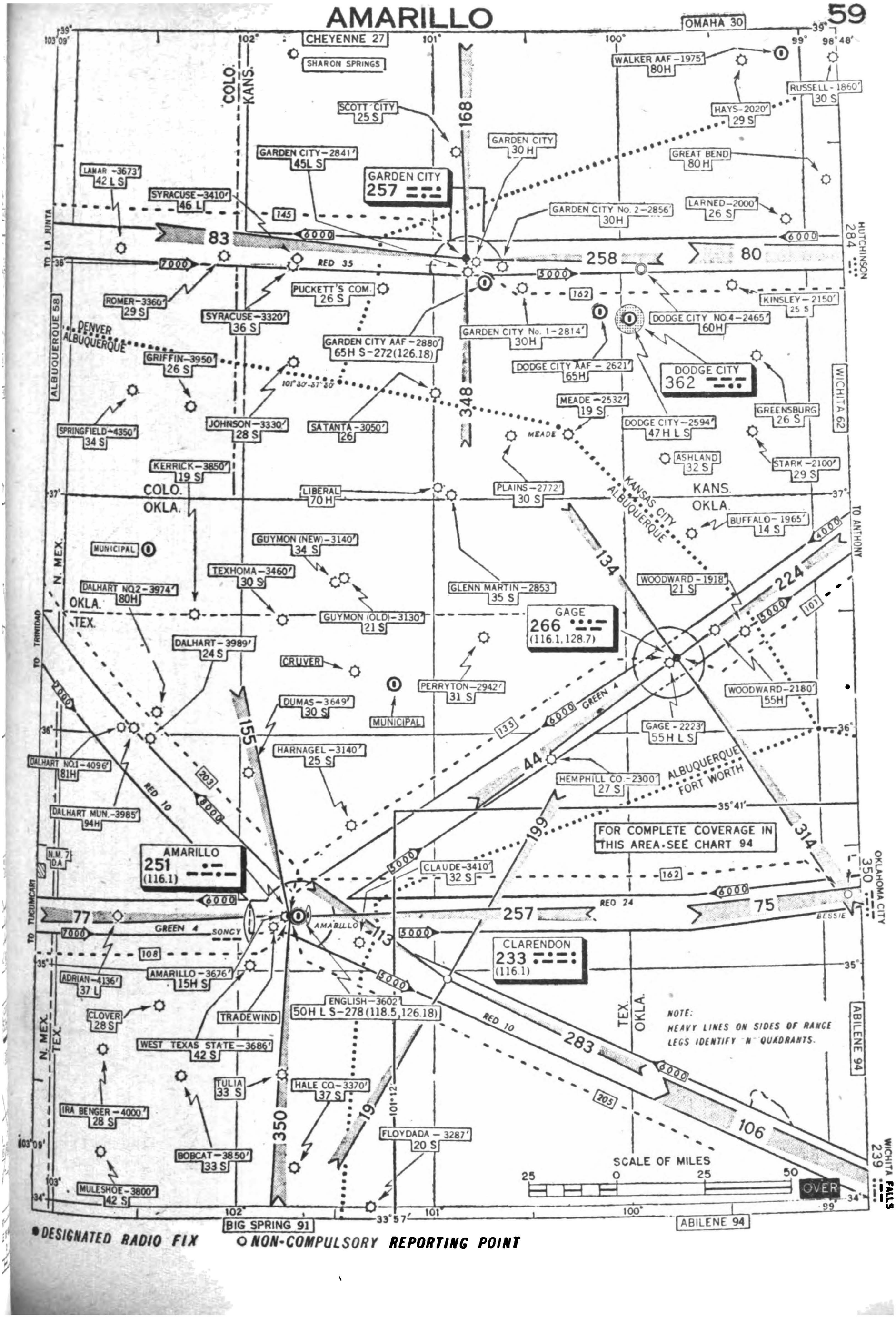


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

AMARILLO


CHEYENNE 27
OMAHA 30
SHARON SPRINGS
COLO.
KANS.
WALKER AAF – 1975'
80H
RUSSELL – 1860'
30 S
HAYS – 2020'
29 S
SCOTT CITY
25 S
GARDEN CITY
30 H
GARDEN CITY – 2841'
45L S
GREAT BEND
80H
LAMAR – 3673'
42 L S
GARDEN CITY
257
SYRACUSE – 3410'
46 L
LARNED – 2000'
26 S
GARDEN CITY No. 2 – 2856'
30H
TO LA JUNTA
83
258
80
HUTCHINSON
284
RED 35
PUCKETT'S COM.
26 S
ROMER – 3360'
29 S
SYRACUSE – 3320'
36 S
KINSLEY – 2150'
25 S
DODGE CITY NO.4 – 2465'
60H
ALBUQUERQUE 58
DENVER
ALBUQUERQUE
GARDEN CITY AAF – 2880'
65H S-272(126.18)
GARDEN CITY No. 1 – 2814'
30H
GRIFFIN – 3950'
26 S
DODGE CITY AAF – 2621'
65H
DODGE CITY
362
WICHITA 62
MEADE – 2532'
19 S
SPRINGFIELD – 4350'
34 S
JOHNSON – 3330'
28 S
SATANTA – 3050'
26
DODGE CITY – 2594'
47H L S
GREENSBURG
26 S
MEADE
ASHLAND
32 S
STARK – 2100'
29 S
KERRICK – 3850'
19 S
COLO.
OKLA.
KANS.
OKLA.
LIBERAL
70 H
PLAINS – 2772'
30 S
KANSAS CITY
ALBUQUERQUE
BUFFALO – 1965'
14 S
TO ANTHONY
MUNICIPAL
GUYMON (NEW) – 3140'
34 S
N. MEX.
TEXHOMA – 3460'
30 S
WOODWARD – 1918'
21 S
DALHART NO.2 – 3974'
80H
GLENN MARTIN – 2853'
35 S
OKLA.
TEX.
GUYMON (OLD) – 3130'
21 S
GAGE
266
(116.1, 128.7)
TO TRINIDAD
DALHART – 3989'
24 S
CRUVER
PERRYTON – 2942'
31 S
WOODWARD – 2180'
55H
DUMAS – 3649'
30 S
MUNICIPAL
GAGE – 2223'
55H L S
HARNAGEL – 3140'
25 S
DALHART NO.1 – 4096'
81H
HEMPHILL CO. – 2300'
27 S
ALBUQUERQUE
FORT WORTH
RED 10
DALHART MUN. – 3985'
94H
FOR COMPLETE COVERAGE IN
THIS AREA SEE CHART 94
N.M. 7
O.A
AMARILLO
251
(116.1)
CLAUDE – 3410'
32 S
OKLAHOMA CITY
350
GREEN 4
SONCY
AMARILLO
RED 24
257
75
BESSIE
CLARENDON
233
(116.1)
ADRIAN – 4136'
37 L
AMARILLO – 3676'
15H S
ENGLISH – 3602'
50H L S-278(118.5,126.18)
CLOVER
28 S
TRADEWIND
RED 10
283
TEX.
OKLA.
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "N" QUADRANTS.
ABILENE 94
WEST TEXAS STATE – 3686'
42 S
TULIA
33 S
HALE CO. – 3370'
37 S
IRA BENGER – 4000'
28 S
FLOYDADA – 3287'
20 S
BOBCAT – 3850'
33 S
SCALE OF MILES
25 0 25 50
OVER
MULESHOE – 3800'
42 S
BIG SPRING 91
ABILENE 94
WICHITA FALLS
239
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DODGE CITY	362 (OD)	MHT	(4)
GARDEN CITY	257 (GK)	SBRAZ-DT,168°,2.75	(4)
Garden City AAF	272 (126.18)	CA	(4): 126.18 (8-17)

OKLAHOMA

GAGE	266 (VM)(116.1)	SBRAZ-VDT,224°,2.1	(4): 116.1

TEXAS

AMARILLO	251 (AQ)(116.1)	SBRAZ-VDT,77°,2.1 to English Fld	(3); 116.1
AMARILLO LFM	(-)	LFM, 77°, 4.9	Amarillo
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°,2	(4), 116.1
→ ENGLISH FIELD (Amarillo)	278 (118.5) (126.18)	AC (ILS)	(4):126.18,118.5,131.9
SONCY FM	(- - -)	FM, 257°, 11.5	Amarillo

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ENGLISH, TEX.	110.3	335	209° Mag.	IM	MM .--- (.62)	OM -- (4.35)	HMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLOR

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Griffin (Walsh)	0.7 N,RR S	3950	26 S6	80 oct. Poles S.
Lamar,10,PU-WD	3.7 WSW,RR N	3673	42 L3 S2	80 oct
Romer (Holly)	1.5 SSE,riv N	3360	29 S1	Ltd 80 oct. Pole line SW, NW.
Springfield, Com.	3.8 N,hwy W	4350	34 S1	73 oct. Poles NW, W, SW.
Trading Post (Kit Cargo) (NC)	0.8 NW,crk E	4290	40	PRIVATE. Pole line S.

KANSAS

Ashland	1 E, RR S	1940	32 S2	80 oct. Poles S, E.
DODGE CITY	3.5 ENE,RR SE	2594	47h R1 L3 S6	80,91 oct. Fld lgts prior req.
(A) Dodge City AAF (A)	6 NW, RR S	2621	65h	INACTIVE;
(A) Dodge City No. 4 (A)	17.4 NNE	2465	60h	INACTIVE.
GARDEN CITY MUN.	3.3 E,riv S	2841	45 R1 L3 S6	73,80 oct. Lgts prior req.
(A) Garden City AAF (A)	9 ESE,riv S	2880	65h R1 S1	91, 100 oct.
Garden City No. 1	19.5 ESE	2814	30h	
Garden City No. 2	13.4 E	2856	30h	
Garden City No. 3	6 ENE	2917	30h	
Glenn Martin(Liberal)	2 ESE,hwy SW	2853	35 S2	80 oct. Pole line SE,SW.
Great Bend	4.5 WSW	1883	80h	
Greensburg	1 ESE,RR N	2230	26 S1	80 oct. Poles N.
Hays	1.5 E,RR S	2020	29 S6	80, 91 oct.
Johnson	0.5 N,hwy W	3330	28 S6	80 oct. Pole line N,NW,NE,S.
Kinsley	1.5 SSE,riv SE	2150	25 S1	80 oct. Pole line W.
Larned	2 NW,rds E,S	2000	26 S6	80 oct.
Liberal	1.5 WNW	2888	70h	
Meade	3 ESE,hwy N	2532	19 S2	80 oct.Use strips only.Pole line N.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Plains	1.3 NNE,hwy N	2772	30 S2	80 oct. Pole line S, E.
Pucketts Com.(Lakin)	3.5 S,riv N,NW	3050	26 S1	Ltd 80 oct. Trees N.
Russell	2.7 ESE,RR NE	1860	30 S4	80 oct.No sto. Poles N,S,NE.
Satanta	1 N,RR S	3050	26 S2	No fuel.
Scott City	1.3 ESE,hwy N	2980	25 S1	73 oct. Pole line N,NE,NW,SW.
Sharon Springs	1.2 NNW,RR S	3500	32 S1	80 oct. Pole line E.
Stark (Coldwater)	0.7 NE,RR SE	2100	29 S2	80 oct. Poles N,S,E,SE,NE.
Syracuse	1 N,riv S	3320	36 S2	80 oct. Pole line S,SE.
★ Syracuse Int,16,PU-WD	3.7 NNE,hwy W	3410	46 L3	
(A) Walker AAF (Hays)(A)	12.5 E,hwy S	1975	80h	INACTIVE.

OKLAHOMA

Buffalo	0.6 NW,crk N	1965	14 S2	80 oct.
(P) Gage	1.8 SW,riv N	2223	55h R1 L5 S1	80 oct.
Guymon (new)	3 SW,hwy N	3140	34 S6	73, 80 oct. Pole lines N, E.
Guymon (old)	0.7 S,RR,hwy W	3130	21 S6	73 oct. Pwr line N, S. No sto.
Municipal (Boise City)	3 N,hwy W	4200	33	
Woodward	7.5 W,hwy S,E	2180	55h	
Woodward (mun.)	1.5 SE,hwy W	1918	21 L1 S6	80 oct.

TEXAS

★ Adrian Int,91,LA-AQ	4.2 SSE,RR N	4136	37 L3	
Amarillo	6 ENE,RR NW	3676	15h S6	73 oct. Pole line N,S.
Bobcat (Dimmitt)	1.5 E,RR W	3850	33 S2	73 oct.
Claude	1.2 WNW,RR N	3410	32 S1	73 oct. Pole line S,N,NW.
Clover (Hereford)	2.2 NNE,hwy S	3800	28 S2	73 oct. Pole line N,E,SE.
Cruver	0.7 WNW,RR E	3200	40	Pole line W,E,SE,SW.
Dalhart	6.2 SSE,RR E	3980	24 S6	73 oct.
Dalhart mun.	3 8 SSW;RR N	3989	94h	
→ Dalhart No. 1	9.7 WSW;RR,hwy E	4096	81h L	
Dalhart No. 2	5.5 NE,hwy NW	3974	80h	
→ Dumas	0.7 S,hwy W	3649	30 L S2	73 oct. Poles N.
(A) English (Amarillo)	9 ENE,RR N	3602	50h R3 L6 S6	100 oct. Poleline N,NW.
Floydada	1.2 NNW,RR N	3287	20 S1	80 oct. Pole line S. RR SW.
Hale Co. (Plainview)	1.6 S,hwy E	3370	37 S6	80,91 oct.
Harnagel (Borger)	2.5 SSW,RR N	3140	25 S2	80 oct. Use strips. RR E.
Hemphill Co.(Canadian)	1.5 SW, riv N	2300	27 S2	Ltd 73 oct.
Ira Benger (Friona)	1.8 NE,RR S	4000	28 S2	73 oct.
Kerrick	1.5 N, RR SW	3850	19 S1	80 oct. Pole line SW.
Muleshoe	1 ENE,hwy N	3800	42 S1	73 oct.
Municipal (Spearman)	0.8 NW,RR SE	3104	30	Pole line.
Perryton	3 ENE,hwy N	2942	31 S2	73 oct. Pole line E.
Texhoma	1 SSW,RR N	3460	30 S2	73,91 oct.Pole line N.
Tulia	1.5 NNW,RR W	3500	33 S1	73 oct. Pole line NE,E,SE.
West Texas State (Canyon)	3 N,hwy E	3686	42 S6	73 oct. 20' Poles SE.
Tradewind (Amarillo)	1.5 SE	3636	30 S6	Data not verified.

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS: GUARDED, HRS. OF OPER., REMARKS
ANTHONY	382 (AY)	NRT	(4)
CARDDAY (Int.)	239 (GY)	NRT	(4)
HUTCHINSON	295 (HN)	KINSLK-DT;350°,3.4	(4)
Hutchinson NAS	323(142.74 on req)	CH	(3); 142.74 (8-24 Mon-Fri. except on req)
KINNEY FM	(- - - -)	FM, 341°,10.6	Wichita
GOODNO FM	(- -)	FM; 167°, 27	Wichita
SALINA	108.3 (SN)	VARW	
SMOKY HILL, (Salina X Army)	344 (DSH)	SMKLS-DT	(4)
Smoky Hill AAF	396(116.1)(126.18)	CA(H8);170°,5.05	(4); 116.1,126.18
TOWANDA FM	(-)	FM, 46°,18.8	Wichita
VIOLA FM	(- - -)	FM, 226°, 24.7	Wichita
WICHITA	332 (WD)	SBRAZ-DT	(3)
Wichita Airport	278(126.18)(118.7)	AC(H8);167°,0.9	(4);131.9,126.18,118.7

OKLAHOMA

ENID(Army)	209 (DMD)	ENIDLZ	(3); 126.18
Enid AAF	396 (126.18)	CA; 214°,3.7	(3); 126.18)
PHILLIPS ANPT(Bartlesville)	278	CI	3105 (On req)
PONCA CITY	368(PC)(116.1)	MHVT	(4); 116.1
RED FORK FM	(- - -)	FM, 325°,13.7	Tulsa
SKIATOOK FM	(- - - -)	FM, 298°,17.8	Tulsa
TULSA AIRPORT	278(126.18)(118.5)	AC	(4);142.74,131.9,118.5, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs.)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SMOKY HILL AAF, KANSAS	109.9	333.8	123° Mag.	IM (.19)	MM ·····(.89)	OM -- (4.20)
					MMK	OMK
WICHITA, KANS.	110.3		2° Mag.	IM ·····(.05)	MM	OM -- (5.37)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abilene	1.7 WSW; RR N	1100	29 S6	80 oct. Trees E;pole line SE.
(P) Anthony,24,AQ-KC	3 WNW; hwy S	1339	48 R1 L3 S6	73,91 oct.
Arkansas City	3.5 S; RR W	1067	28 S6	73, 91 oct.
Arther Airfield (Wichita)	3 SW; RR N	1290	26 S6	73,91 oct. No sto.Poles S.
Baird (Arkansas City)	4 W; hwy S	1100	17 S2	73 oct. Pole line SW, S.
Beech (Wichita)	6 E; hwy N	1378	46h	Factory use only.
Caldwell	1.2 E; RR W	1140	21 S2	73 oct. Poles E, S
Cannon Ball (Wichita)	6.5 WSW;hwy N	1300	24 S6	80 oct. No sto. Pole line N.
★ Cassoday Int,34,AQ-KC	1 SSE; hwy W	1480	32 R1 L3	Twrs S.
Cessna Aircraft (Wichita)	4.5 SE; hwy W	1369	53 S1	80 oct.
Clothier (Cedar Point)	4 SSW;creek E	1320	20 S2	73 oct.
Culver (Wichita)	4 N; hwy W	1320	15h	
Derby	1 NNE; RR W	1305	24 S1	73 oct. Poles N.
El Dorado	3.6 SE; hwy W	1400	25 S6	80 oct. Soft, wet weather.
Ellinwood	1.5 NW; RR S	1790	26 S1	73 oct. Poles N.
Emporia	5.4 S; hwy E	1200	26 S6	80 oct. Poles E,SE,NE.
Eureka	3.2 E; RR N	1100	21	Pole line S.
Frasier (El Dorado)	2.5 S; riv W	1300	25 S6	80 oct. Poles E, NE.
Giffin-Ortom (Hoisington)	1.3 NE; hwy S	1870	25 S2	80 oct. Poles S.
Great Bend Airpark	1.6 NNE; RR W	1850	26 S2	80 oct. Poles W.
Herington	1.5 SE; RR W	1450	17 S2	73 oct. Pole line N.
(A) Herington AAF (A)	7.5 ENE	1485	69h	INACTIVE.
Hilltop (Augusta)	2 NE; RR SE	1260	20 S1	73 oct.
Holyrood	0.5 ESE; RR N	1820	17 S1	73 oct. Poles N.
Hutchinson,com	5.5 W; hiv NE	1605	20 S4	80 oct.
(P) HUTCHINSON,MUN.	4 ENE; hwy S	1542	70h R1 L5 S6	80,91 oct.
(N) " NAS (N)	8.9 S;RR NNE	1582	70h R1 L5 S5	91,100 oct.
Ken-Mar (Wichita)	3 ENE; RR N	1375	23 S6	80 oct.No sto. Obsts sur fld
Kingman	1.5 NNW;RR SW	1600	26 S1	73 oct. Trees S, SW
Kiowa Flying Serv.(Kiowa)	2.5 WNW; RR S	1375	19 S1	80 oct. Pole line NNW,SSW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

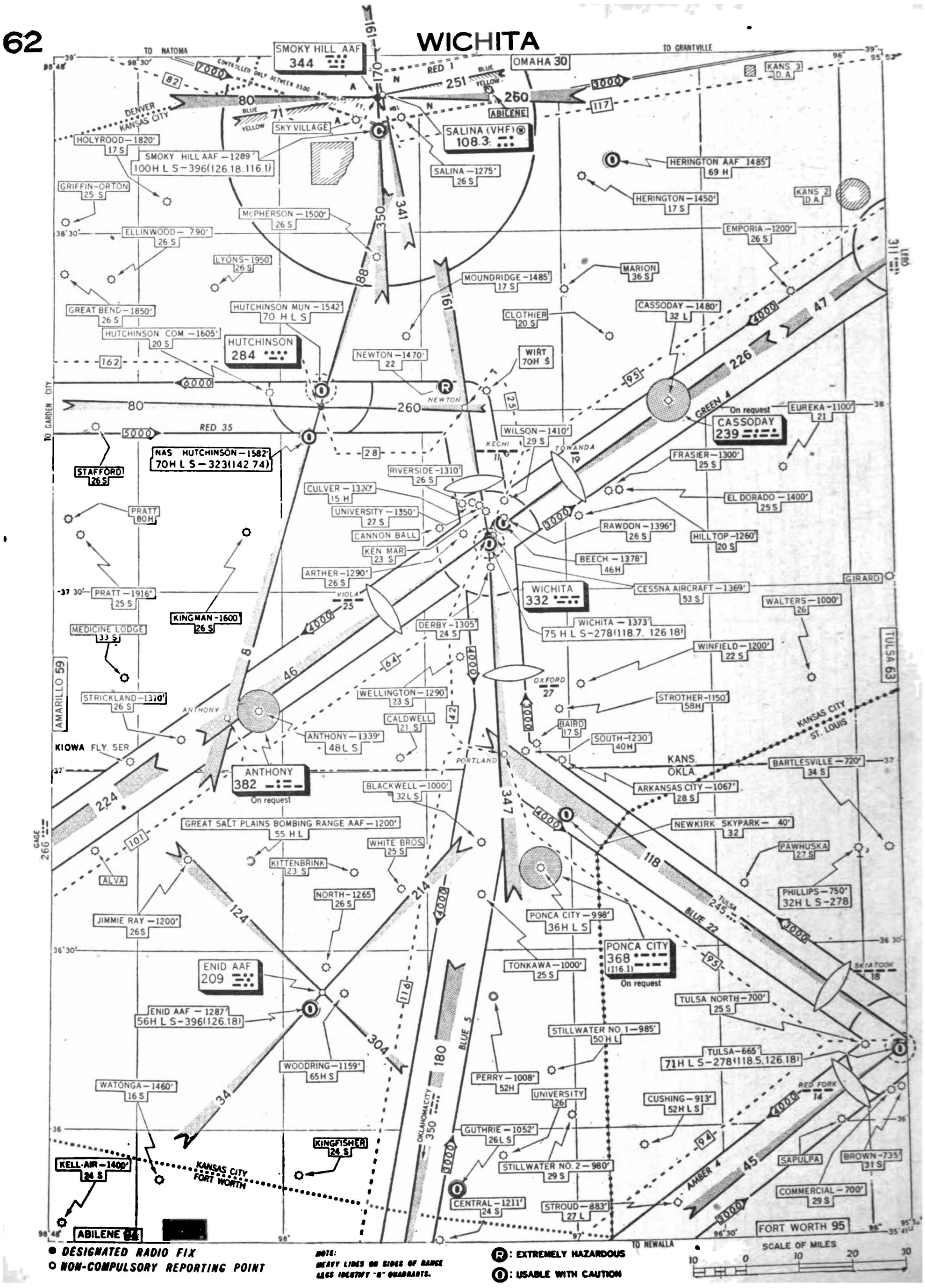
KANSAS

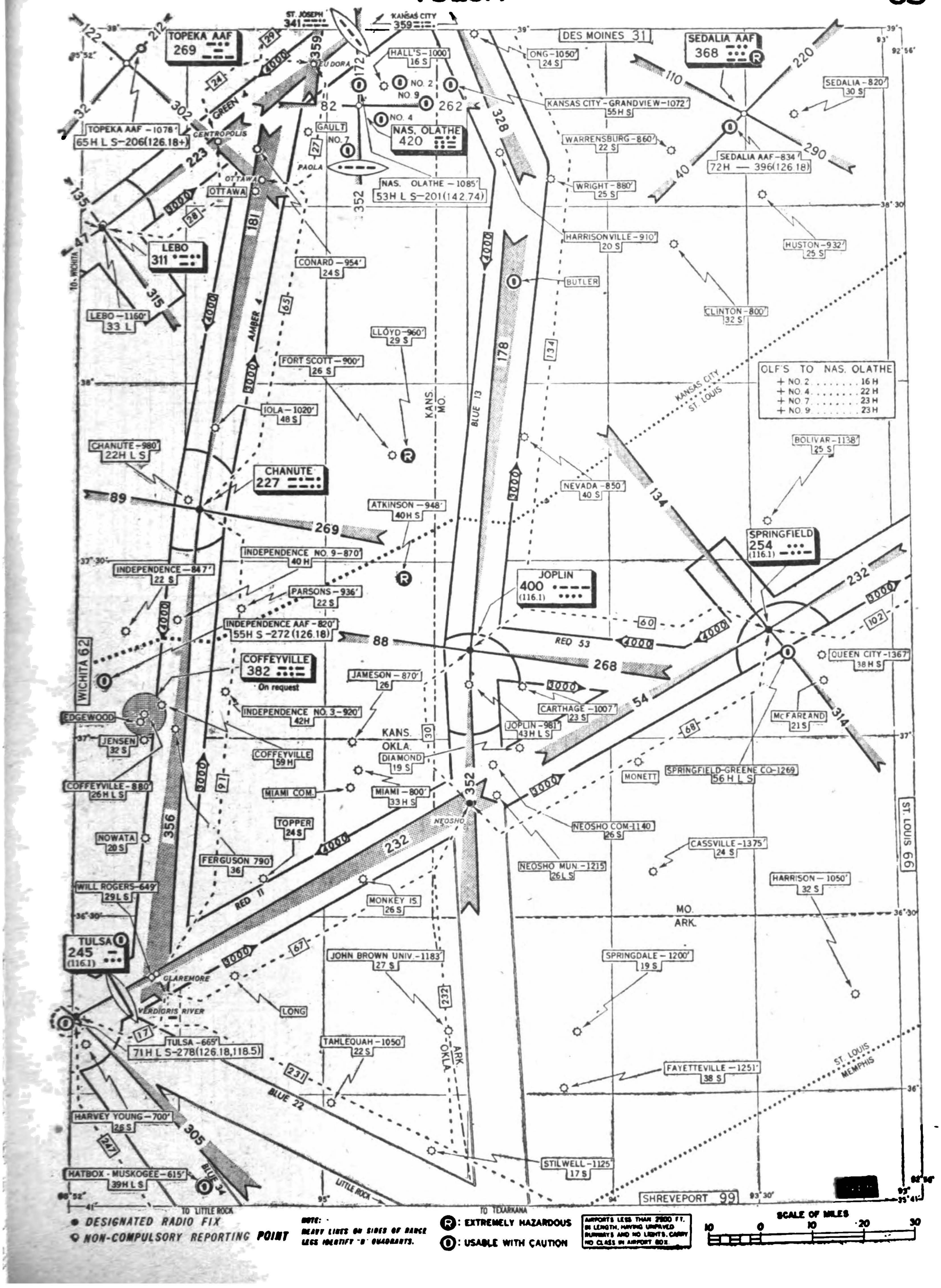
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lyons	1.4 W; hwy N	1950	26 S6	80 oct. Pole line N.
McPherson	4 NNE; RR W	1500	26 S6	80 oct. Soft when wet.Poles E.
Marion	1.8 ESE;RR W	1370	36 S2	80 oct. Pole line SE.
Medicine Lodge	2.1 SE; RR S	1520	33 S2	80 oct.
Moundridge	2.2 WNW; RR NE	1485	17 S2	Ltd 80 oct. Poles W.
Pratt Mun.	2.5 ENE;hwy S	1916	25 S6	73,80 oct.
Pratt	4 N; hwy E	1960	80h	
Rawdon (Wichita)	6.7 E; hwy S	1396	26 S6	73 oct.
Riverside (Wichita)	4 NNW; riv E	1310	26 S1	80 oct. Poles sur fld.
Salina	2.5 SE;riv W	1275	26 S6	80,91 oct.
Sky Village (Salina)	6.6 WSW;RR SE	1270	20 S2	80 oct. Pole line S.
(A) Smoky Hill AAF(Salina)	4.5 SW; RR E	1289	100hR3 L5 S4	73,91,100 oct. No sto. (A)
South (Winfield)	14 SSW	1230	40h	
Stafford	2.6 WSW;RR N	1889	26 S6	80,91 oct. Poles N, S.
Strickland (Hazelton)	2.6 E; RR S	1310	26 S6	73,80 oct. Poles E, N.
(P) Strother (Winfield)	5 SSW;hwy S	1150	58h	
University (Wichita)	5 NE; RR N	1350	27 S6	80,91 oct. Pole line E.
Walters (Sedan)	8 N; Hwy W	1000	26	PRIVATE.
Wellington	3.5 N; RR W	1290	23 S2	80 oct. Pole line W,E,S.
(A) WICHITA	5.3 SE; hwy W	1373	75h R3 L5 S6	80,91,100 oct.50' pole N.
Wilson (Wichita)	7.5 NE;RR N	1410	29 S6	73 oct. No sto.
Winfield	2 E; RR S	1200	22 S2	73 oct.Lgt scft only.Pwr lineW.
→ Wirt (Newton)	4 ENE;rd S	1527	70h S6	80,91 oct. Pole line W,N.

OKLAHOMA

Alva	1.4 S; RR N	1320	26 S1	73 oct
Bartlesville	4 E; rd S	720	34 S6	80 oct.
Blackwell	1.7 W; RR N	1000	32 L4 S6	80 oct.
Brown (Tulsa)	6 SE	735	31 S6	80,91 oct. Pole NW.
Central (Edmond)	2.6 NNE;RR W	1211	24 S1	73 oct.
Commercial (Tulsa)	5.4 SSE;hwy N	700	29 S6	73,80,91 oct. Trees SW.
(P) Cushing	2 S; RR E	913	52h L5 S6	73,80 oct.
(A) Enid AAF (A)	4 SSW; RR E	1287	56h R2 L5 S4	91,100 oct.
(A) Great Salt Plains (Jet)	6 NNE;dam 1 N	1200	55h L5	(A)
★ Guthrie Int,21,FV-WD	2 SSE;hwy W	1052	26 L3 S6	80 oct.
Jimmie Ray (Cherokee)	1.5 E; RR SW	1200	26 S1	80 oct. Trees S.
Kell-Air (Thomas)	1.2 SW; RR N	1400	24 S2	80 oct.
Kingfisher	1.3 NW; RR W	1060	24 S6	73 oct.
Kittenbrink (Jefferson)	2 E; RR W	1100	23 S2	80 oct. Trees N.
Newkirk Skypark	2.5 SE; RR SW	1140	32	Pole N, NW.
North (Enid)	3.8 N; RR E	1265	26 S6	80 oct.
Pawhuska	3.8 W; RR E	1000	27 S1	80 oct. Pole line NE.
(A) Perry (A)	6.6 N; hwy W	1008	52h	
Phillips (Bartlesville)	1.7 WNW;hwy S	750	32h R1 L4 S2	80,91 oct.
PONCA CITY	2.3 NNW;RR S,E	998	36h R1 L4 S6	73,87 oct. Antenna bet twr and
Sapulpa	1.5 ENE;RR W	730	26	Pole line S. hangar, lgtd.
(P) Stillwater #1	3.2 NNW;hwy E	985	50h L3	
" #2	5.6 SSE;hwy W	980	29 S6	73,80 oct.
★ Stroud Int,29A,AQ-LS	3 N; hwy W	883	27 L3	Pole line W lgtd.
Tonkawa	1.6 S;riv NW	1000	25 S1	73 oct. Pole line S, E.
(A,N)TULSA AIRPORT	6.2 NE;RR S	665	71h R2 L5 S6	80-100 oct, NATS,NAFC.
Tulsa North (Tulsa)	4.5 NNW;RR E	700	25 S2	80,87 oct.Poles S,SW,SE.
University (Langston)	1 S; rd N	1025	26	Bldg SE corner.
Watonga	1.2 NW;riv SW	1460	16 S6	80 oct. Poles S.
White Brothers (Lamont)	2 WSW; RR E	1000	25 S1	73 oct.
(P) Woodring (Enid)	5 ESE; RR NW	1159	65h L S2	80 oct. Port tnwy lgts prior req.
Mauks (Blackwell) Okla.	0.5 S	987	26 S1	80 oct.Data unverified by CAA.

WICHITA


TO NATOMA
TO GRANTVILLE
SMOKY HILL AAF 344
OMAHA 30
KANS 3 D.A
KANS 2 D.A
DENVER
KANSAS CITY
HOLYROOD – 1820' 17 S
SMOKY HILL AAF – 1289' 100H L S – 396(126.18.116.1)
SKY VILLAGE
SALINA (VHF) 108.3
SALINA – 1275' 26 S
ABILENE
HERINGTON AAF 1485' 69 H
HERINGTON – 1450' 17 S
GRIFFIN-ORTON 25 S
McPHERSON – 1500' 26 S
ELLINWOOD – 790' 26 S
EMPORIA – 1200' 26 S
LYONS – 1950 26 S
MOUNDRIDGE – 1485' 17 S
MARION 36 S
GREAT BEND – 1850' 26 S
HUTCHINSON MUN – 1542' 70 H L S
CLOTHIER 20 S
CASSODAY – 1480' 32 L
HUTCHINSON COM – 1605' 20 S
HUTCHINSON 284
NEWTON – 1470' 22
WIRT 70H S
NEWTON
CASSODAY 239
On request
EUREKA – 1100' 21
TO GARDEN CITY
RED 35
NAS HUTCHINSON – 1582' 70H L S – 323(142.74)
STAFFORD 26 S
WILSON – 1410' 29 S
KECHI
TOWANDA
FRASIER – 1300' 25 S
RIVERSIDE – 1310' 26 S
CULVER – 1320' 15 H
EL DORADO – 1400' 25 S
PRATT 80H
UNIVERSITY – 1350' 27 S
RAWDON – 1396' 26 S
CANNON BALL
HILLTOP – 1260' 20 S
KEN MAR 23 S
BEECH – 1378' 46H
ARTHER – 1290' 26 S
WICHITA 332
CESSNA AIRCRAFT – 1369' 53 S
GIRARD
PRATT – 1916' 25 S
VIOLA
WALTERS – 1000' 26
KINGMAN – 1600' 26 S
WICHITA – 1373' 75 H L S – 278(118.7, 126.18)
DERBY – 1305' 24 S
MEDICINE LODGE 33 S
WINFIELD – 1200' 22 S
AMARILLO 59
TULSA 63
STRICKLAND – 1310' 26 S
WELLINGTON – 1290' 23 S
OXFORD 27
STROTHER – 1150' 58H
ANTHONY
CALDWELL 21 S
BAIRD 17 S
KIOWA FLY SER
ANTHONY – 1339' 48L S
SOUTH – 1230' 40H
KANSAS CITY ST. LOUIS
KANS. OKLA.
PORTLAND
BARTLESVILLE – 720' 34 S
ANTHONY 382
On request
BLACKWELL – 1000' 32L S
ARKANSAS CITY – 1067' 28 S
GREAT SALT PLAINS BOMBING RANGE AAF – 1200' 55 H L
NEWKIRK SKYPARK – 40' 32
WHITE BROS 25 S
PAWHUSKA 27 S
KITTENBRINK 23 S
PHILLIPS – 750' 32H L S – 278
NORTH – 1265' 26 S
PONCA CITY – 998' 36H L S
ALVA
JIMMIE RAY – 1200' 26 S
PONCA CITY 368 (116.1)
On request
ENID AAF 209
TONKAWA – 1000' 25 S
TULSA NORTH – 700' 25 S
ENID AAF – 1287' 56H L S – 396(126.18)
STILLWATER NO. 1 – 985' 50 H L
WOODRING – 1159' 65H S
TULSA – 665' 71H L S – 278(118.5.126.18)
PERRY – 1008' 52H
UNIVERSITY 26
CUSHING – 913' 52H L S
WATONGA – 1460' 16 S
RED FORK 14
GUTHRIE – 1052' 26 L S
KINGFISHER 24 S
SAPULPA
BROWN – 735' 31 S
KELL-AIR – 1400' 24 S
KANSAS CITY FORT WORTH
STILLWATER NO. 2 – 980' 29 S
COMMERCIAL – 700' 29 S
CENTRAL – 1211' 24 S
STROUD – 883' 27 L
ABILENE
FORT WORTH 95
TO NEWALLA
SKIATOOK 18
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION


TOPEKA AAF 269
TOPEKA AAF – 1078'
65H L S–206(126.18+)
LEBO 311
LEBO – 1160'
33 L
CHANUTE 227
CHANUTE – 980'
22H L S
COFFEYVILLE 382
On request
COFFEYVILLE – 880'
26H L S
INDEPENDENCE AAF – 820'
55H S –272(126.18)
INDEPENDENCE – 847'
22 S
INDEPENDENCE NO. 9 – 870'
40 H
TULSA 245
TULSA – 665'
71H L S–278(126.18,118.5)
HATBOX – MUSKOGEE – 615'
39H L S
WILL ROGERS – 649'
29L S
FERGUSON 790'
36
NOWATA
20 S
HARVEY YOUNG – 700'
26 S
JENSEN
32 S
EDGEWOOD
JOLA – 1020'
48 S
FORT SCOTT – 900'
26 S
LLOYD – 960'
29 S
CONARD – 954'
24 S
OTTAWA
CENTROPOLIS
PAOLA
GAULT
NO. 7
NO. 4
NAS. OLATHE 420
NAS. OLATHE – 1085'
53H L S–201(142.74)
HALL'S – 1000'
16 S
NO. 2
NO. 9
EU DORA
ST. JOSEPH 341
KANSAS CITY 359
DES MOINES 31
ONG – 1050'
24 S
SEDALIA AAF 368
SEDALIA – 820'
30 S
KANSAS CITY – GRANDVIEW – 1072'
55H S
WARRENSBURG – 860'
22 S
SEDALIA AAF – 834'
72H — 396(126.18)
WRIGHT – 880'
25 S
HARRISONVILLE – 910'
20 S
HUSTON – 932'
25 S
BUTLER
CLINTON – 800'
32 S
OLF'S TO NAS. OLATHE
+ NO. 2 . . . . . 16 H
+ NO. 4 . . . . . 22 H
+ NO. 7 . . . . . 23 H
+ NO. 9 . . . . . 23 H
BOLIVAR – 1138'
25 S
NEVADA – 850'
40 S
SPRINGFIELD 254 (116.1)
JOPLIN 400 (116.1)
ATKINSON – 948'
40H S
JAMESON – 870'
26
CARTHAGE – 1007'
23 S
JOPLIN – 981'
43H L S
DIAMOND
19 S
MIAMI COM.
MIAMI – 800'
33H S
TOPPER
24 S
NEOSHO COM – 1140
26 S
NEOSHO MUN. – 1215
26L S
CASSVILLE – 1375'
24 S
HARRISON – 1050'
32 S
SPRINGDALE – 1200'
19 S
FAYETTEVILLE – 1251'
38 S
JOHN BROWN UNIV. – 1183'
27 S
TAHLEQUAH – 1050'
22 S
STILWELL – 1125'
17 S
MONKEY IS.
26 S
LONG
CLAREMORE
VERDIGRIS RIVER
QUEEN CITY – 1367'
38 H S
MCFARLAND
21 S
SPRINGFIELD-GREENE CO – 1269
56 H L S
MONETT
KANSAS CITY
ST. LOUIS
ST. LOUIS
MEMPHIS
KANS.
MO.
OKLA.
ARK.
MO.
ARK.
SHREVEPORT 99
TO LITTLE ROCK
TO TEXARKANA
LITTLE ROCK
RED 53
RED 11
BLUE 22
BLUE 13
BLUE 34
AMBER
GREEN
WICHITA 62
10 – WICHITA
ST. LOUIS 66
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS.
CHANUTE	227 (CZ)	SBRAZ-DT, 304°, 2.5	(4)
COFFEYVILLE	382 (KV	MHT	(4)
DE SOTO FM	(- - -)	FM; 224°, 19.6	Kansas City, Mo.
INDEPENDENCE AAF	272 (126.18)	CA	(3); 126.18 (8-20)
LEBO (Int)	311 (LN)	BMLZ-DT, 336°, 0	(4)
OLATHE (Navy)	420 (NUU)	BMRLZ	
Olathe NAS	201 (142.74)	CN; 352°, 2.9	(3); 142.74 (8-18)(GCA)
PAOLA FM (Navy)	(. - - -)	FM; 172°, 12	Olathe
TOPEKA (Army)	269 (DTO)	BMRAZ	(4)
Topeka AAF	206 (116.1) (126.18)	CA; 320°, 3.4	(3); 116.1, 126.18
		MISSOURI	
JOPLIN	400(JH)(116.1)	BMRLZ-VDT, 172°, 6.2	(4); 116.1
SEDALIA(Knobnoster)(Army)	368 (DSM)	BMRLZ	
Sedalia AAF	396 (126.18)	CA(ILS); 220°, 3	(4); 126.18
SPRINGFIELD (Greene Co.)	254(SX)(116.1)	SBRAZ-VDT, 134°, 4.3	(4); 116.1
		OKLAHOMA	
TULSA	245(TS)(116.1)	SBRAZ-VDT	(3); 116.1
Tulsa Airport	278 (126.18) (118.5)	AC; 225°, 1	(4); 142.74, 131.9, 118.5, 126.18
VERDIGRIS RIVER FM	(-)	FM; 54°, 9.6	Tulsa

INSTRUMENT LANDING SYSTEMS (*Localizer and G.P. in mcs, Compass Locators in kcs*)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SEDALIA AAF, MO.	110.3	335	31° mag.	IM (.09)	MM ····· (1.18)	OM — — (4.73)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Berryville (NC)	1.3 WNW;RR E	1150	13	Trees S.Cattle on fld.
Fayetteville	3.8 S;RR W	1251	38 S6	73 oct.
Harrison	4.1 NW;RR S	1050	32 S1	80 oct.
Springdale	0.8 SSE;hwy W	1200	19 S4	80 oct.Pole lines NW,NE.

KANSAS

Atkinson (Pittsburg)	2.5 NW;RR W	948	40h S6	80 oct. Flares on req.
Chanute	2 WSW;hwy NW	980	22h R1 L4 S6	80,91 oct.
Coffeyville	5 NNE	743	59h	
" mun.	2 NW;riv E	880	26h R1 L3 S6	73,90 oct.Poles NW;hi-line SW.
Conard (Ottawa)	3.8 NNE;RR S	954	24 S1	80 oct.Pole line N;hedge S.
Edgewood (Coffeyville)	2.5 WNW;RR E	745	25 S1	80 oct.Pole line E,S.
Ferguson Flying Field (Coffeyville)	5 E;RR NW	790	36	Poles S.
Fort Scott	4.5 SW;hwy S	900	28 S2	80 oct.
Gardner (NC)	1.4 WSW;hwy S	1070	39	
Gault (Wellsville)	0.8 ESE;RR N	1020	20 S1	80 oct.Trees E.
Girard	1.7 WNW;RR E	950	14	Trees E.
Hall's (Olathe)	2.6 SSE;RR W	1000	16 S2	73 oct.Cattle on fld.Pole line N
Independence	5 N;hwy W	847	22 S4	73,91 oct.Pole line W.
(A) " AAF (A)	5.5 SW;hwy W	820	55h R1 S1	91,100 oct.
" #3	24 ESE	920	42h	
" #9	12.5 NE	870	40h	
(P) Iola	3.2 SSE;rd N	1020	48 S6	73,80 oct.
★ Lebo Int,39,AQ-KC	4 ENE;RR N	1160	33 R1 L3	
Lloyd (Ft. Scott)	3.8 SSW;RR SE	960	29 S2	80 oct.Pole line NE.
Mader (Garnett)(NC)	2 WNW;hwy S	1060	26	
(N) Olathe NAS (N)	5.2 SW;RR W	1085	53h R2 L5 S6	100 oct. NATS
(N) " OLP #2 (N)	5 SE	1090	16h	INACTIVE.4 W of Stanley.
(N) " OLP #4 (N)	10 S	1090	22h	1.3 SE of Springhill.INACTIVE.
(N) " OLP #7 (N)	16 SSW	940	23h	4.3 W of Hillsdale.INACTIVE.
(N) " OLP #9 (N)	11 SE	1070	23h	1 N of Stillwell.INACTIVE.
Ottawa	5.3 S;RR W	975	32	

KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Parsons	2 NW;RR S	936	22 S2	80 oct.Soft in wet weather.
(A) Topeka AAF (A)	6 S;RR W	1078	65h R2 L5 S6	73,91,100 Oct.JP-1. No sto.

MISSOURI

→ Bolivar	1.8 WSW;hwy N	1138	25 S2	80 oct.Poles N.
Branson (NC)	4 W;hwy W	1069	21	Trees SW.
Carthage	2 S;hwy E	1007	23 S4	80 oct.Pole line W,SW.
Cassville	3.9 S;hwy E	1375	24 S2	80 oct.Trees SW.
Clinton	2 NE;RR SE	800	37 S4	80 oct.Poles SW,S,E,N.
Diamond	2.1 SSW;RR S	1150	19 S2	80 oct.Pole line N,NE,SE.
(P) Grandview (Kansas City)	16.4 S:RR E	1072	55h L5 S2	80,91 oct.Fld lghts prior req.
(P) GREENE CO. (Springfield)	5.5 WNW;RR NE	1269	56h R1 L5 S5	80,91,100 oct. JP-1
Harrisonville	2.1 W;RR N,S	910	20 S1	73 oct. Fld rough.
Huston (Windsor)	4.3 E;hwy N	932	25 S1	80 oct.
JOPLIN	5 NNE:RR N	981	43h R1 L4 S4	80,91 oct.
McFarland (Springfield)	4 SSE;RR S	1310	21 S4	73,80 oct.
Neosho com.	4.8 NNW;hwy W	1140	26 S1	80 oct.Poles SW.
" mun.	2.8 SW:hwy E	1215	26 L3 S2	80 oct.Poles N,antenna E.
(P) Nevada	3 NE;hwy N	850	40 S4	73 oct.Pole line SW,W.
Ong (Kansas City)	9 SE;hwy NE	1050	24 S6	73,80 oct.Pole line N,W.
Queen City (Springfield)	2.1 E;hwy W	1367	38h L3 S4	73-91 oct.Lgts prior req.
Sedalia	6.3 NW;RR S	820	30 S6	80 oct.Poles S.
(A) " AAF (A) (Knobnoster)	2.8 S;hwy N	834	72h R3	INACTIVE.
Warrensburg	7.3 SSW;hwy E	860	22 S6	80 oct.
Wright (Garden City)	1.4 NNW hwy SW	880	25 S1	80 oct.Pole line S.
Butler	1.5 N		25 S2	80 oct. Data unverified.
Monett	0.5 NE; hwy S	1462	24 S2	80 oct.

OKLAHOMA

Harvey Young (Tulsa)	8.8 E;hwy N	700	26 S6	80 oct.
Hatbox (Muskogee)	2.7W;fork RRs	615	39h L3 S6	73,80 oct.All lgts prior req.
Jameson (Picher)	4.5 W	870	26	
Jensen (South Coffeyville)	0.5 W;RR S,E	735	32 S4	80 oct.Pole line SE.
John Brown Univ. (Mosley)	3.6 ESE;hwy S	1183	27 S4	80 oct.
Long (Pryor)	2 NNE;RR W	650	16 S2	80 oct.Pole line SW.
Miami	2.2 NNW;RR E	800	33h L4 S2	80,91 oct.
" Commercial	1.7 WSW;RR E	800	20 S1	80 oct.
Monkey Island (Afton)	7.8 SE;RR NW	750	26 S1	80 oct. Pole line W.
Nowata	1.6 NNE;RR W	600	20 S1	80 oct.
Stilwell	1.4 N;RR W	1125	17 S2	80 oct.
Tahlequah	4.3 N;rd E	1050	22 S4	80 oct.
Topper (Vinta)	3.9 SW;RR ESE	800	24 S1	73 oct.
(A,N) TULSA AIRPORT	6.2 NE; RR S	665	71h R2 L5 S6	80-100 oct. NATS,NAFC.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.

RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
WALNUT RIDGE	362 (DWR)	MRLWZ,174°,5	
MISSOURI			
COLUMBIA	379 (CA)	SBRAZ-DT,89°,3.9	(4)
NEW FLORENCE (Int.)	385 (ST)	MHT	(4)
ST. LOUIS	209 (LS)	SBRAZ-DTX	(3)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
VICHY	344(OM)(116.1)	BMRLZ-VDT,310°, 2.7	(4), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARKANSAS

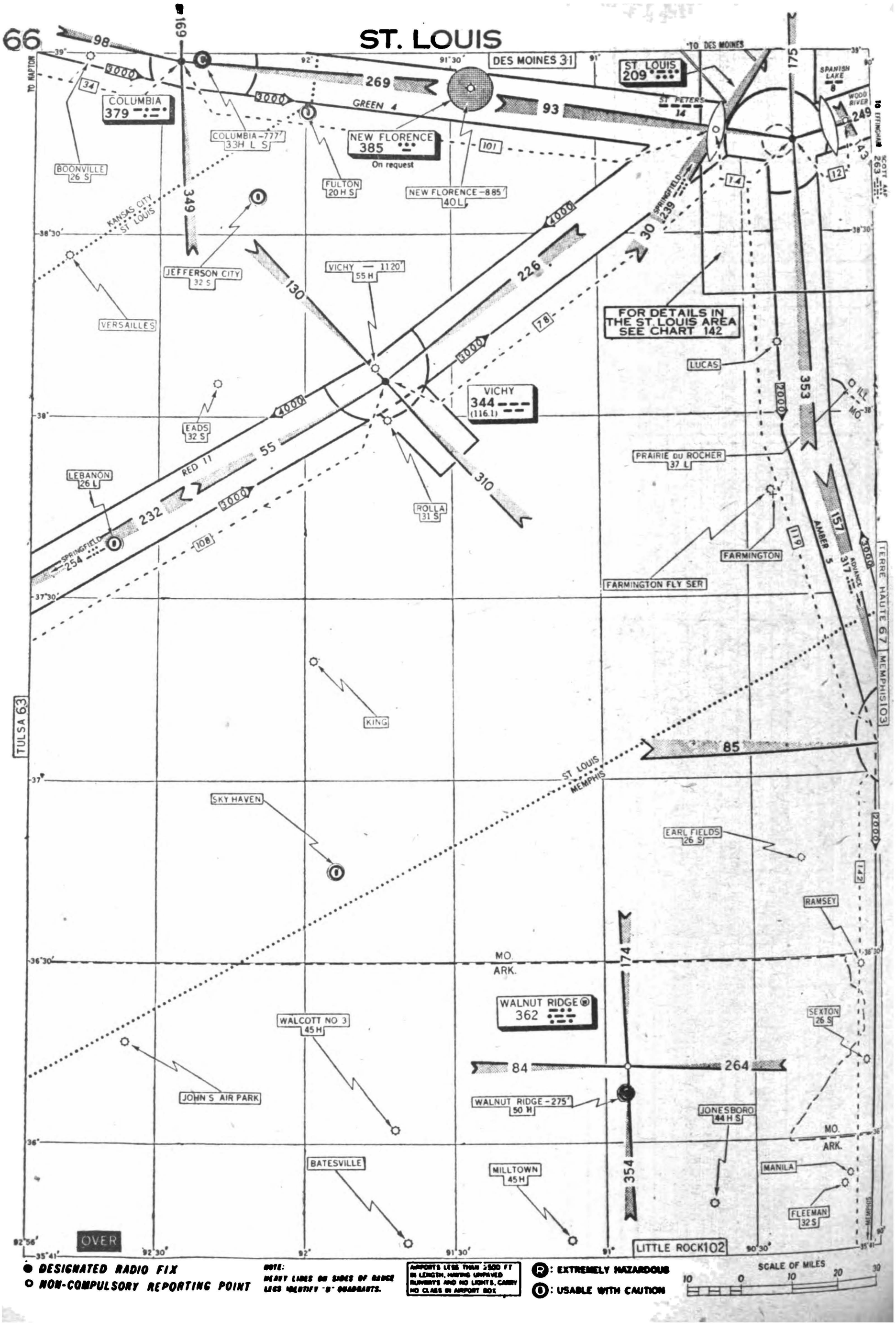
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Batesville(Desha)	1 SE, hwy E	400	20 S1	73 oct.Pole line NE.
Biggers (NC)	2 ESE,RR NW	290	45	
Fleeman(Manila)	0.8 S,RR N	240	32 S2	80 oct.Po. line N,NE.
John's Air Park (Flippin)	0.3 NNW,RR S	620	11 S1	80 oct.Trees N.
(P) Jonesboro	3.5 ESE;RR N,SW	264	44h S6	80,91 oct.Use rnwys
Manila (Blytheville)	13.5 W,lake E	240	75	
Milltown(Newport)	13 NE	244	45h	
Walcott #3 (Walnut Ridge)	14 ESE	285	45h	1.5 W of Walcott
Walnut Ridge	4 NE,RR SE	275	50h	
ILLINOIS				
* Prairie du Rocher Int,55, NO-LS	0.5 S,RR NE	390	37 L3	Trees S, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

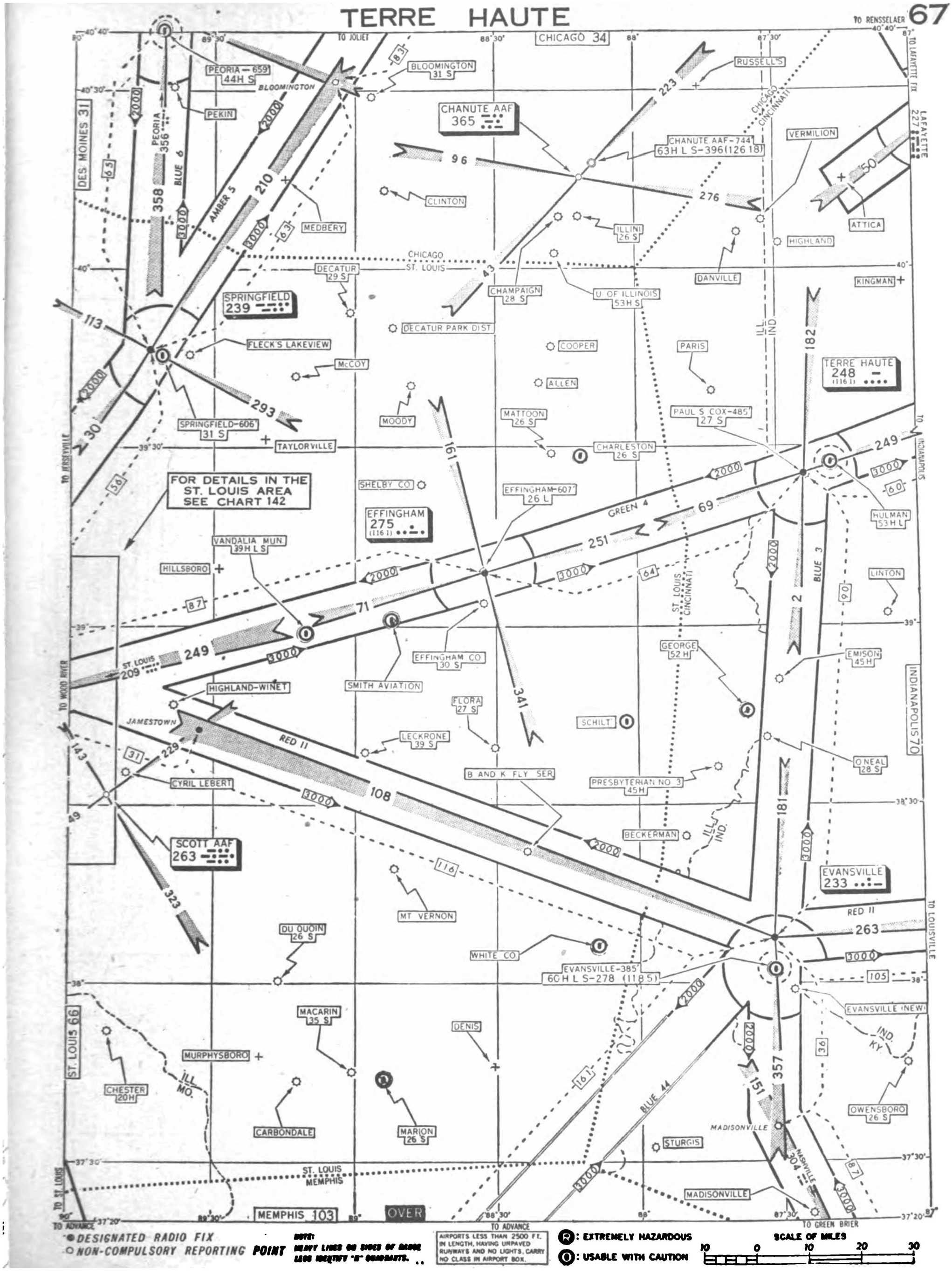
MISSOURI

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boonville	1.5 NNW,riv S	602	16 S4	80 oct.Obsts sur fld.
Columbia	2.4 NW,hwy S	777	33h R1 L3 S5	80, 91 oct.
Eads (Iberia)	1.1 W, hwy NE	960	32 S2	80, 91 oct.
Farmington	1 ESE,hwy N,E		35 S6	80 oct.Data not verif.
Farmington Flying Service	0.8 NNE,hwy S	920	17 S4	73 oct.Poles NW.
Fields (Poplar Bluff)	3.8 ENE,hwy S	325	26 S2	73 oct.Pwr line S.
Fulton	3 WSW,hwy SE	875	20h S2	80 oct.
Jefferson City	2 N, hwy S	550	32 S6	80 oct. No sto.
Kennett (NC)	1.3 E,RR W	260	26	30' poles N.
King (Houston)	0.8 WNW,hwy ESE	1180	15 S1	80 oct. Poles S
* Lebanon Int,54B, AQ-LS	2.5 SSE,hwy E	1380	26 L3	
Lucas (Festus)	1.7 S,RR W	425	16 S2	73 oct.
Mel Adkins (Gravois Mills)(NC)	4.2 SSE,hwy W	950	19	
* New Florence Int, 17, KC-LS	1 SSE,hwy N	885	40 R1 L3	
Ramsey (Campbell)	1.6 SW,RR NW	295	14 S2	Ltd 73 oct.Trees NNE
Rolla	3.5 NE,rd S	1201	31 S6	80,91 oct.
Sexton (Kennett)	2.8 SW,hwy E	263	26 S2	80 oct.
Sky Haven (West Plains)	7.3 SSW,hwy E	860	22 S6	80 oct.
Versailles	1.7 ENE,RR N	1050	20 S2	80 oct.Pwrline N,NE, NW.
Vichy	1.5 NNW,hwy SW	1120	55h R1	

ST. LOUIS


TO RAPTON
98
169
C
92°
91°30'
DES MOINES 31
TO DES MOINES
91°
ST LOUIS
209
175
39°
90°
SPANISH LAKE
WOOD RIVER
249
TO EFFINGHAM
SCOTT AAF
263
269
GREEN 4
93
ST PETERS
14
34
COLUMBIA
379
4000
COLUMBIA-777'
33H L S
NEW FLORENCE
385
On request
101
BOONVILLE
26 S
FULTON
20 H S
NEW FLORENCE-885'
40 L
43
12
14
SPRINGFIELD
239
KANSAS CITY
ST LOUIS
38°30'
349
30
4000
226
JEFFERSON CITY
32 S
VICHY — 1120'
55 H
130
78
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
LUCAS
VERSAILLES
4000
VICHY
344
(116.1)
353
2000
ILL
MO
38°
EADS
32 S
RED 11
55
PRAIRIE DU ROCHER
37 L
LEBANON
26 L
232
3000
310
ROLLA
31 S
SPRINGFIELD
254
108
157
AMBER 5
317
ADVANCE
119
FARMINGTON
3000
TERRE HAUTE 67
MEMPHIS 103
37°30'
FARMINGTON FLY SER
TULSA 63
KING
85
ST LOUIS
MEMPHIS
37°
SKY HAVEN
EARL FIELDS
26 S
2000
142
RAMSEY
36°30'
MO.
ARK.
174
WALNUT RIDGE
362
WALCOTT NO 3
45 H
SEXTON
26 S
84
264
JOHN S AIR PARK
WALNUT RIDGE-275'
50 H
JONESBORO
44 H S
354
MO.
ARK.
36°
BATESVILLE
MILLTOWN
45 H
MANILA
FLEEMAN
32 S
92°56'
35°41'
92°30'
92°
91°30'
91°
90°30'
LITTLE ROCK 102
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" BOUNDARIES.
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX
R: EXTREMELY HAZARDOUS
B: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

TERRE HAUTE


TO RENSSELAER
TO JOLIET
CHICAGO 34
TO LAFAYETTE FIX
PEORIA — 659
44H S
BLOOMINGTON
31 S
RUSSELL'S
PEKIN
BLOOMINGTON
CHANUTE AAF
365
CHICAGO CINCINNATI
LAFAYETTE
227
CHANUTE AAF-744'
63H L S-396(126 18)
VERMILION
DES MOINES 31
PEORIA
356
BLUE 6
AMBER 5
CLINTON
MEDBERY
ILLINI
26 S
ATTICA
HIGHLAND
CHICAGO
ST. LOUIS
DECATUR
29 S
DANVILLE
KINGMAN
SPRINGFIELD
239
CHAMPAIGN
28 S
U OF ILLINOIS
53H S
DECATUR PARK DIST
FLECK'S LAKEVIEW
COOPER
PARIS
ILL.
IND.
TERRE HAUTE
248
McCOY
ALLEN
MOODY
MATTOON
26 S
PAUL S COX-485'
27 S
SPRINGFIELD-606'
31 S
TAYLORVILLE
CHARLESTON
26 S
TO INDIANAPOLIS
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
SHELBY CO
EFFINGHAM-607'
26 L
HULMAN
53H L
EFFINGHAM
275
GREEN 4
VANDALIA MUN.
39H L S
HILLSBORO
LINTON
ST. LOUIS
CINCINNATI
BLUE 3
EFFINGHAM CO
30 S
SMITH AVIATION
GEORGE
52 H
EMISON
45 H
TO WOOD RIVER
ST. LOUIS
209
HIGHLAND-WINET
FLORA
27 S
SCHILT
JAMESTOWN
RED 11
LECKRONE
39 S
INDIANAPOLIS 70
O'NEAL
28 S
CYRIL LEBERT
B AND K FLY SER
PRESBYTERIAN NO. 3
45H
ILL.
IND.
BECKERMAN
SCOTT AAF
263
EVANSVILLE
233
MT VERNON
RED 11
DU QUOIN
26 S
WHITE CO
EVANSVILLE-385'
60H L S-278 (1185)
TO LOUISVILLE
MACARIN
35 S
DENIS
EVANSVILLE (NEW)
ST. LOUIS 66
MURPHYSBORO
ILL.
MO.
IND.
KY.
CHESTER
20H
CARBONDALE
MARION
26 S
BLUE 44
MADISONVILLE
OWENSBORO
26 S
STURGIS
ST. LOUIS
MEMPHIS
MADISONVILLE
NASHVILLE
MEMPHIS 103
OVER
TO ADVANCE
TO ADVANCE
TO GREEN BRIER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF AIRPORT LEGS IDENTIFY "R" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

RADIO

ILLINOIS

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE (Rantoul)(Army)	365 (DNU)	SBMRAZ	(3), 126.18
Chanute Field	396 (126.18)	CA, 43°, 3.3	(3), 126.18
EFFINGHAM	275 (EF)(116.1)	BMRLZ-VDT,341°,0-Intermediate	(4), 116.1
SCOTT (Belleville)(Army)	263 (DCD)	SBMRAPZ-DT,49°,1.8	(4)
SPRINGFIELD	239 (ZD)	SBMRAZ-DT,113°,2.3	(4)
		INDIANA	
EVANSVILLE	233 (EV)	SBRAZ-DT	(3)
Evansville Airport (old)	278 (118.5)	C, 177°, 5.5	(4):126.18.118.5.131.9
TERRE HAUTE	248 (TH)(116.1)	BMRLZ-VDT,125°,0-Paul Cox	(4): 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Arcola)	2 W,RR N,E	665	20 S6	80 oct.Pole line N, E.
B & K (Fairfield)	1.4 WSW,RR S	500	21 S2	80 oct. Pole line S.
Beckerman (Mt.Carmel)	4 W,RR S	424	23 S1	80 oct. Pole line N.
(P) Bloomington	3 E,RR N	875	31 S6	80 oct. Pole line N.
Carbondale	0.1 E,lake 2 E	450	20 S4	80 oct. No sto.
Champaign	2 NNW,RR SW	753	28 L S4	73 oct.Range lgts.Appchs blocked.
(A) Chanute (Rantoul)(A)	1 SE,RR W	744	63h R2 L5	73,91,100 oct. JP-1.Pole N.
Charleston	1.3 SW,hwy E	690	26 S6	80 oct.Use marked areas.
Clinton Flying Club	5.5 NE	720	13	
Cooper (Tuscola)	1.6 SW,RR E	650	24 S2	80 oct.Poles NW, SE, NE, E
Cyril Lebert(Lebanon)	0.5 SE,hwy N	440	22 S2	80 oct.Poles N, W, S.
Danville	2.4 SSW,hwy W	640	24 S4	80 oct. Appchs blocked by poles.
Decatur	4 NW,RR S	678	29 S6	80 oct.
Decatur Park District	4 E,RR,hwy S	679	16 S1	80 oct. Pole line N,SW,NW,NE.
Denis (Muddy)	Adj E	400	27 S1	80 oct.Data unverified.
Du Quoin	1.8 W,hwy S	454	26 S2	73 oct. 25' poles S.
Effingham Co. Memorial	3.6 S,hwy W	585	30 S2	80 oct.
* Effingham Int,10,LS-ID	2.5 N,RR E	607	26 R1 L3 S1	73 oct. on req.
Fleck's Lakeview (Rochester)	2.8 W,lake W	580	21 S6	80 oct. No sto. Poles W.
Flora	1.1 WSW,RR N	490	27 S1	80 oct. Trees, poles N.
George (Lawrenceville)	4.5 NE,RR S	428	52h	
Highland-Winet(Highland)	3.6 NE,RR S	535	24	Pole line S.
Illini (Urbana)	2 NNE,hwy SE	740	26 S6	80 oct. Trees E.
Leckrone (Salem)	1.9 NW,hwy S	545	39 S6	80,91 oct. Use strips only.
McCoy (Blue Mound)	5 W	660	16 S2	No fuel.
Macarin (Marion)	4.6 WNW,hwy W	470	35 S6	80, 91 oct.
Marion	1.8 ESE,RR S	430	26 S6	73 oct.
Mattoon	4 E,RR N	720	26 S4	80 oct. Poles W.
Medbery (Armington)	1 NE	650	26	Data not verified.
Moody (Dalton City)	2.2 S,hwy W	680	19 S2	80 oct. Trees E.
Murphysboro	3 N,riv SE		20 S1	80 oct. Data not verified.
Paris	3.5NNW;RR,hwy E	740	30 S1	80,91 oct.Poles SW,S.W.
Pekin	4 S,bet RRs	505	24 S2	80 oct. Pole line W,N, E.
PEORIA	4.8 WSW,rd E	659	44h R1 L1	80,91 oct. Trees W,bldgs NE.
Presbyterian Church No. 3 (Lawrenceville)	4 WNW,hwy E	430	45h	
Russell's (Hooperston)	6.5 WNW,RR S		13	PRIVATE. Data not verified.

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Shelby County (Shelbyville)	1.9 ESE,RR N	677	21 S1	80 oct.
Smith Aviation (St.Elmo)	1.3 SW,RR NW	647	20 L1 S2	80 oct. Poles N, NE. Rnwy data unver
(P) Springfield	3.5 SW,bet RRs	606	31 R1 S6	80,91 oct.Use strips only.
(P) University of Illinois (Champaign)	5.5 SSW,RR E	752	53h S4	80, 91 oct.
Vandalia	4.4 NW	532	39h L2 S2	80 oct.
Vermilion (Danville)	4 E,hwy S	650	21 S2	80 oct. 30' poles S.
White County (Carmi)	1.1 NE, RR S	450	17 S1	80 oct.
Mount Vernon	2.5 ENE,RR S	465	23 S6	80 oct.
Taylorville	1 SW		26 S1	80 oct. Data not verified.
Hillsboro	1 NE	630	25 S4	Inf.not verified
Schilt (Olney)	1.5 E;RR S		30 S1	80 oct.Data not verified.
		INDIANA		
Attica	2 S;hwy W	647	26 S1	80 oct. Data not verified.
→ Cork (West Lebanon)	4 W		24 S1	80 oct. Obsts NE. Data unverif.
Emison (Oaktown)	3.6 WSW	425	45h	
Evansville (new)	5 E, RR W	388	18 S1	80 oct.
EVANSVILLE (old)	5 NE; bet RRs	385	60h R2 L5 S4	80, 91 oct. Twr W.
→ Ferguson (Richland)	0.5 SE		13	Data not verified.
Highland (Perrysville)	2.8 WNW,riv E	585	23 S2	Ltd 73 oct.
(P)HULMAN (Terre Haute)	5 ESE; RR N	585	53h L5	Fld lgts prior req.
→ Jordan (Bloomingdale)	6 N		33 S2	No fuel.Data unverified.
Kingman Flying Service (Kingman)	0.5 E,hwy N	700	26 S4	80 oct. No sto.
Linton	3.3 E, RR S	500	20 S1	Ltd 80 oct. Pole line N.
→ Mount Vernon	1 E		26 S1	80 oct. Info. unverified.
O'Neal (Vincennes)	1.5 WNW,RR NE	415	28 S6	73,80 oct.NNW appch blocked.
Paul S. Cox (Terre Haute)	3.2 S,riv W	485	27 R1 S4	80, 91 oct. Stacks NE.
→ Straub (Cynthiana)	0.5 NW		13	Info. unverified.
→ Washington Mun.	4 N		30 S4	80 oct. Info. unverif.
→ Washington	3 W		21	Info. unver.
→ Charlestown	5 NE; hwy E		15 S6	80 oct. Info unverified.
		NEVADA		
Madisonville	6 ENE; hwy SE	420	24 S4	80 oct. Use strips only.
Owensboro	2.5 ENE;RR NW	484	26 S6	73, 91 oct. No sto.
Sturgis	1.5 ESE,hwy SW	371	50h	
		MISSOURI		
Chester (McBride)	3.8 NW,riv N	372	20h	Allway: 5388 x 4695'

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (fee page XIV) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADVANCE FM	(- - - -)	FM, 330°, 24	Indianapolis
CEDAR GROVE FM	(- - - -)	FM, 297°, 35	Cincinnati, Ohio
CLAYTON FM	(- - -)	FM, 250°, 11.2	Indianapolis
FREEMAN (Seymour) (Army)	203 (DSR)	MRLWZ	
Freeman Field	396 (126.18)	CA; 159°, 11.6	(3); 126.18 (7-23)
Freeman Field (Hfac.)	219 (DSR)	MH	Operates cont.
GREENCASTLE FM	(. . - - -)	FM, 250°, 27	Indianapolis
GREENFIELD FM	(-)	FM, 82°, 31	Indianapolis
INDIANAPOLIS	266 (ID)(116.1)	SBRAZ-VDT	(3) 116.1
Indianapolis Airport	278 (126.18)	AC (ILS); 82°,3.3	(4); 131.9, 126.18
LAFAYETTE (Purdue University)	227 (LF)	BMRL-DT; 50°,2.4	(4)
MILROY (Int.)	347 (MV)	MHT	(4)
MORGANTOWN FM	(- -)	FM, 177°, 22	Indianapolis
KENTUCKY			
BOWMAN FIELD (Louisville)	278 (126.18) (118.3)	AC	(4); 116.1, 131.9, 126.18, 118.3
EASTWOOD FM	(- -)	FM, 89°, 9.4	Louisville
GODMAN (Knoxville) (Army)	227 (DKX)	BMRLZ	
Godman Field	272 (126.18)	CA; 172°, 3.1	(3); 126.18 (6-24)
LOUISVILLE	359 (LV)	SBMRLZ-DTX	(3)
SHEPHERDSVILLE FM	(- - -)	FM, 180° , 18	Louisville
SULPHUR FM	(. . - - -)	FM, 227°, 70	Cincinnati, Ohio
UNION FM	(- - -)	FM, 227°, 24	Cincinnati, Ohio
WARSAW (Int.)	212 (WR)	MHT	(4)
OHIO			
CINCINNATI (Lunken)	335 (CC)	SBRAZ-DT; 227°,5.2	(3)
DAYTON	245 (DY)(116.1)	SBMLZ-VDT	(3); 116.1
Dayton Airport	278 (126.18) (118.9)	AC (ILS);90°,3.3	(4); 131.9,126.18, 118.9
FAIRFIELD FM (Army)	(- - -)	FM, 196°, 9.3	Patterson
LOVELAND FM	(-)	FM, 44°, 8.8	Cincinnati
LUNKEN (Cincinnati)	227 (126.18) (118.7)	AC	(4); 116.1, 131.9, 126.18, 118.7
PATTERSON (Fairfield) (Army)	379 (DPK) (116.1)	SBMRAPZ-VDT	(4); 116.1
Patterson Field	396 (126.18)	CA (ILS); 32°, 2.96	(4); 126.18 (GCA)
VERONA FM	(- - - -)	FM, 270°, 9.9	Dayton
WRIGHT (Dayton)	260 (126.1)	CA	3105, 4495; 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATOR)		
DAYTON, OHIO	110.3	335	55°Mag.	IM ····· (.05)	MM	OM - - (4.4)
				IMK	MMK	OMK
INDIANAPOLIS INDIANA	109.9		44°Mag.	IM ····· (.05)	MM - - - (.89)	OM - - (4.3)
					MMK	OMK
PATTERSON, OHIO	108.7	333.8	210°Mag.	IM (.09)	MM ····· (1.5)	OM - - (4.5)
					MMK	OMK

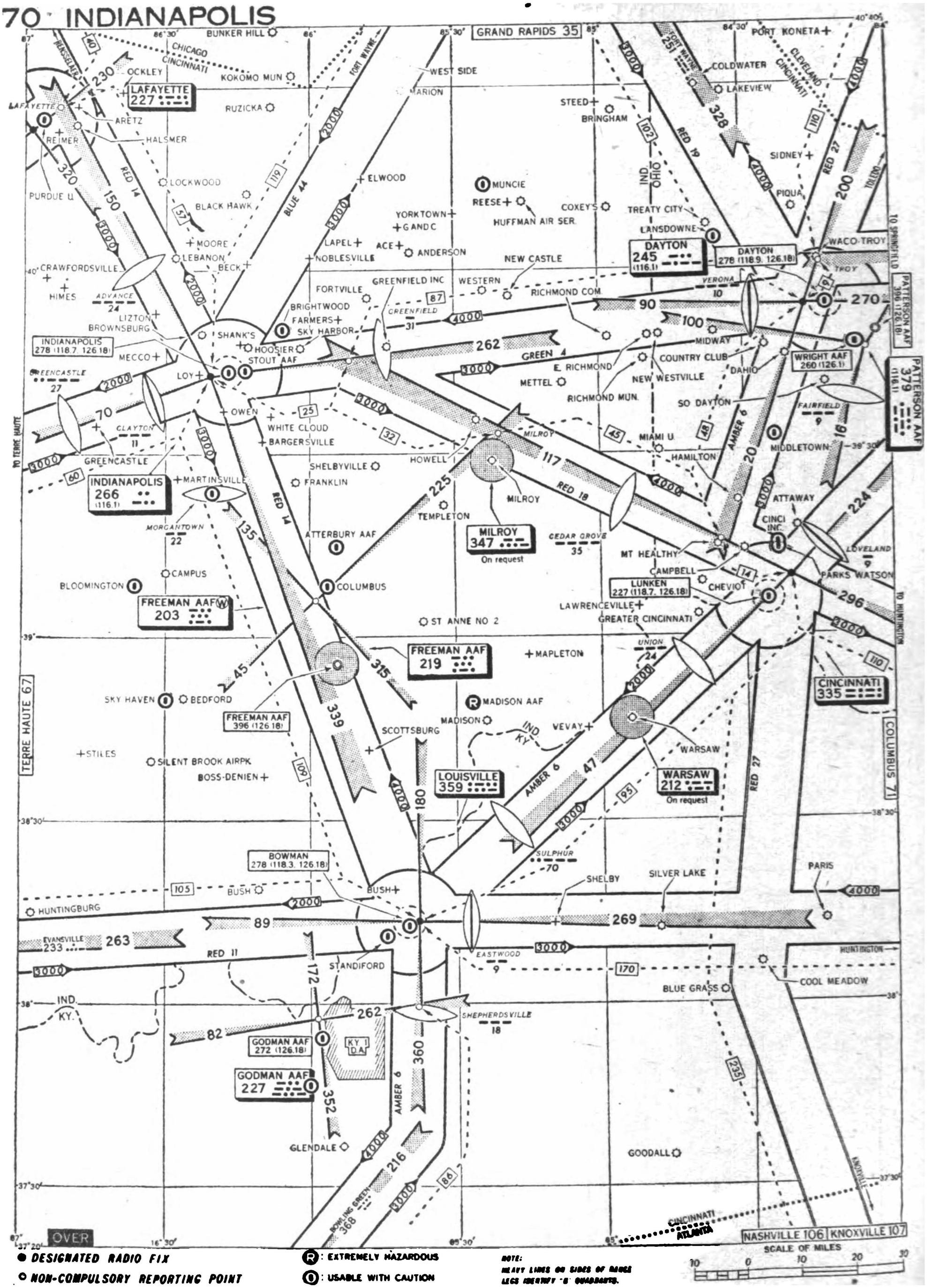
S Simultaneous Range and Voice, W Without Voice, Z VHF Station Location Marker at Range Station.
(3) 3105, 4495, 6210 kcs., (4) 3105, 4495, 6210, 3117 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — INDIANA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Ace (Anderson)	2 S	875	30 S4	80 oct.
Anderson	3.5 SE;RR NE	875	26 S6	80 oct.No sto.Trees E.
Aretz (Lafayette)	4 NE	500	35 S6	80 oct.Info. unverified.
(A) Atterbury AAF(Columbus) (A)	3.5 N;hwy S	651	50h	INACTIVE.
Bargersville	1 N		20	Info. unverified.
Beck (Zionsville)	5 NE;crk W		14 S2	80 oct.Poleline W.Info. unverified.
Bedford	3.5 SE	682	19 S2	Ltd 73 oct.Rnwy data
Black Hawk (Sheridan)	5.3 N;hwy E	600	16 S1	Ltd 73 oct. unver.
(P) Bloomington	5 WSW;RR SE	840	40 S2	73,80 oct.Poleline S. Rnwy info. unverified.
Boss-Denien (Salem)	3 WNW;RR N		26 S6	80 oct.Poleline S. Data not verified.
Bringham (Portland)	1.5 E;RR E	1020	20	Poles S;120'tank SW.
Brightwood (Indianapolis)	3.7 NE;rd S		44 S4	80 oct.Data unverif.
Brownsburg	1.5 SSE;RR N	650	20 S1	73 oct.Poleline S.
Bunker Hill	1.8 W;RR N	798	50h	
Bush (Jeffersonville)	3 NE		20 S2	80 oct.Inf.unverified.
Bush (Ramsey)	1.5 WSW;hwy N	580	10 S1	73 oct.
Campus (Bloomington)	1.5 ENE,RR S		25 S1	80 oct.Info.unverif.
Columbus	4.5 SSW	616	45h S4	80 oct.No sto.
Coxey's (Winchester)	1 ESE;hwy N	1088	16 S4	80 oct.
Crawfordsville	4.5 SSW;hwys E, W	850	37 S4	80 oct. No sto.Info. unverified.
East Richmond (Richmond)	3.7 ESE;RR E	1090	20 S6	73 oct.
Elwood	1.8 SSE;hwy NE	850	23 S4	80 oct.Data unverif.
Farmers (Greenfield)	9 NW		26 S2	73 oct.Info. unverif.
Fortville	2.8 E;rd N	740	15 S1	Ltd 73 oct.Trees SSW.
Franklin Fly.Field	4 S;riv S	745	22 S2	80 oct.Trees S.
(A) Freeman (Seymour)(A)	2 SW;hwy N	575	55h R2 L5 S6	73, 91, 100 oct.JP-1.
French Lick Sprgs.(NC)	1 SE;RR W	500	27h	
G & C (Anderson)	1 N	875	30	Info. unverified.
Greencastle	8 SE		23 S2	80 oct.Info. unver.
Greenfield, Inc.	1.9 ENE,RR S	910	30 S2	80 oct.Poleline S.
Halsmer (Lafayette)	3 ESE;RR S	595	20 S6	80 oct.Poles SW.
Himes (Ladoga)	4 NW		13	Info. unver.
Hoosier (Indianapolis)	4 WNW	740	26 S5	80 oct.Pole line NE.
Howells (Rushville)	2 SE;hwy SW	985	21 S6	80, 91 oct.
Huffman Air Service (Selma)	0.8 SE; RR N	1000	15 S4	73 oct.
(P) Huntingburg 19,LS-LV	3 S;RR E	500	31 L2 S2	73 oct.
(P) INDIANAPOLIS	8 SW;hwy N	796	53h R3 L6 S6	73,87,91,100 oct.Exper.
Kokomo, mun.	4.7 NE	835	40h L5 S2	80 oct.P-line E.lgtg.
Lapel	1 NE		13	Rough.Info. unver.
Lawrenceburg	1 SW		22	Info. unver.
Lebanon	1 S;RR N	925	13 S2	80 oct.Trees SW.
Lizton	1 SE		25	Info. unverified.
Lockwood (Frankfort)	2.5 S;RR W	764	20 S4	80 oct.Ditch W.
Loy (Plainfield)	0.5 NE;RR S		19 S6	73 oct.Data unver.
Madison Commercial	2.2 N;RR W	960	24 S2	80 oct.Poles E.
(A) Madison AAF (A)	6 NNW; RR SW	850	50h	Closed to all acft.
Mapleton (Seymour)	3 E		18 S4	80 oct.No sto.Info.unver.
Martinsville	2 W		10	Info. unver.
Marion	3.8 SSW;hwy S	832	24 S4	73 oct.Poles E;hi-line N.
Mecco (Danville)	0.5 W		13 S2	73 oct.Info. unver.
Mettel (Connersville)	2.4 NNE;RR E	950	29 S1	80 oct.
* Milroy Int.5, CC-CG	5.5 ESE	1034	27 R1 L3	
Moore (Zionsville)	12 NW		14 S1	80 oct.Info. unver.
Muncie	3.5 N;RR SW	950	31h L4 S6	80,91 oct.Lgts prior req. Rnwy info unver.
New Castle	3.2 E; RR S	1040	23 S6	80 oct. No sto.
New Castle Western (New Castle)	2.3 NW;lks SE	1080	26 S1	73 oct.
Noblesville	0.5 SE	801	27 S1	80 oct.Poleline S end NW/SE strip.Info.unver
Ockley	1 W		23	Pwrlines N,W;trees E. Info. unver.
Owen (Mooresville)	4 E		31 S1	80 oct.Info. unver.
Purdue University (Lafayette)	2.5 W;RR N	605	35h R1 L3 S6	80 oct.Silo N;stack NE.
Reese (Muncie)	4 E	950	19 S2	80 oct.Info. unver.
Reimer (Lafayette)	2 S		25 S2	80 oct. Info. unver.
Richmond, com.	4 WSW;RR N	1075	42 L1 S2	80 oct.
(P) Richmond, mun.	6 SSE;RR W	1139	55h L5	Contact lgts on req.
Ruzicka (Kokomo)	2.5 S;RR E	800	22 S6	80 oct.Pole E;trees N.
St. Anne #2 (Seymour)	2.3 NNE	750	45h	
Scottsburg	2 W		18	Info.unver.
Shank's (Indianapolis)	5 WNW	740	28 S6	80 oct.Info. unver.
Shelbyville	3.1 S;hwy E	850	19	Poleline E.
Silent Brook (Orleans)	5 W;riv SW	650	20 S4	80 oct. Hi-line W,SW
Sky Harbor (Indianap's)	7 ENE;hwy S	730	26 S6	73,80 oct.Pole line E.
Sky Haven (Bedford)	2 SSW;riv S	650	36h S4	80,91 oct.Poleline E,S. Rnwy data not verif.
Steed (Portland)	1.5 NW	1030	20 S2	80 oct.Obsts N end NE-SW stp.Info.unver.
Stiles (Shoals)	1 N	740	22 S2	80 oct. Info. unver.
(A) Stout (Indianapolis)(A)	5.5 WSW	712	45h	INACTIVE.
Templeton (Greensb'g)	3.5 WNW;RR N	915	26 S4	73 80 oct.Pwrline S. No sto.
Vevay	1 E	450	20 S2	73 oct.Tree NE corner Info. unver.
West Side (Marion)	2.5 NW;hwy S	835	26 S1	73 oct.Pole line E.
White Cloud (Greenw'd)	1.6 SW;hwy E	800	25 S4	Fuel.No sto.Info.unver.
Yorktown	1 S		22 S1	80 oct,Obsts E.Info.unver.
KENTUCKY				
Blue Grass (Lexington)	6 W;hwy N	978	40h L5 S1	80 oct.
(A) BOWMAN (Louisville)	5.5 ESE;hwy S	546	44h R2 L5 S6	73,91,100 oct.
Cool Meadow (Lexington)	4.8 N;rd W	910	28 S6	73,80 oct.No sto.Pole line SW.
* Glendale Int,75B,	0.5 NE;RR NW	702	26 L3	(DL-LV)
(A) Godman (Ft.Knox)(A)	1 NW;RR E	740	52h R2 L5 S4	73,91,100 oct.No sto.
Goodall (Danville)	4.2 S;RR W,S	990	27 S6	80 oct.
(P) Greater Cincinnati (Covington)	8.2 W;riv NE	889	55h L5 S1	91,80 oct.Svcg days only.Ctc lgts prior req.
Paris	1.2 NNE	635	20 S1	80 oct.Ravines NE,SE.
Shelby (Shelbyville)	2.5 ENE;hwy S	850	20 S2	80 oct.Info. unver.
Silver Lake (Frankfort)	3.2 E;hwy N	750	25 S2	80 oct.
Standiford (Louisville)	4.3 SSE;RR W	480	50h L5	
* Warsaw Int,5A,LV-CV	0.8 SW;riv NW	485	30 R1 L3	
OHIO				
Attaway Air Ranch (Mason)	4.2 S;RR NW	850	23 S4	80 oct.No sto.Pole line E.
Campbell (Cincinnati)	6.2 NNW;RR E	820	24 S1	80 oct.Pole line WSW.
Cheviot (Cincinnati)	9 W	914	18 L1 S1	80 oct.
Cincinnati (Sharonv'l)	2 SE;hwy N	860	37 S6	80 oct.
* Coldwater Int,4,DY-OO	2 NW;crk NW	898	33 L3	
Country Club (Johnsv'l)	2.9 N;RR NE	990	26	Poles N, S.
Dahio (Dayton)	8.5 W;hwy S	925	37 S4	80 oct.
DAYTON	10 N;hwy E	1000	55h R3 L5 S6	73,80,91,100 oct.
Hamilton	2.5 SE;RR SW	615	29 S6	80,91 oct.Poles S, SE. Trees NW.
Happy Landings (Morrow) (NC)	2.4 ESE;RR S	880	28	Area SE unusable.
Harrison (NC)	2 ESE;RR SW	580	18	Pole line S.
Hightman (Lebanon)(NC)	3 E;RR W	880	16	Pole line W;trees W,E.
Lakeview (Montezuma)	1 SW;hwy W	895	24 S2	80 oct. Pole N.
(A) LUNKEN (Cincinnati)	4.3 SE;RR SW	481	41h R2 L5 S6	73,91,100 oct.Bcn.ESE.
Miami University (Oxford)	2.2 WSW;RR W	1040	40 S6	80 oct.Poles N,NW.
Middletown	1.5 N; riv N	653	31 S4	80 oct.
Midway (Lewisburg)	3.4 WSW;RR E	1090	26 S4	80 oct.Trees W.
Mt. Healthy (Cincinnati)	9.5 NW;hwy E	870	22 S6	80 oct.Poles E;woods W.
New Westville (New Paris)	2.8 S;RR S	1180	21 S1	80 oct.Poles E, NW, SE.
Parks Watson (Cincinnati)	9 NE;RR E	865	25 S6	80 oct.
(A) Patterson (Fairfld)(A)	1.6 WSW	819	78h R3 L6 S4	73,100 oct. JP-1.
Piqua	4 WNW;RR S	1000	19 S2	80 oct.Poles S,SE,SW.
Polk Grove (Vandalia)	3.6 W;riv W	975		UNUSABLE. (NC)
Sidney	1 W;RR S		25 S2	80 oct.Data unver.
South Dayton (Dayton)	5 SSW;RR W	750	32 S6	80 oct.No sto.Hills S.
Treaty City (Greenv'l)	1.5 NNE;hwy W	1060	20 S4	80 oct.Poleline W.
Waco-Troy (Troy)	1.8 SW;RR SE	870	29 S1	80 oct.
(A) Wright (Dayton)(A)	5 ENE;RR NW	800	72h R1 L5 S2	62,73,91,100 oct.JP-1 CLOSED.
Lansdowne (Greenv'l)	2 ESE;RR N		19	Bldgs,hi-line N. Inf. unver.
Port Koneta (Wapakoneta)	2.5 NNE;RR E		26 S4	80 oct.Inf. unver.

h hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiv) NC (not charted), → NEW OR REVISED DATA.

70 INDIANAPOLIS



● DESIGNATED RADIO FIX

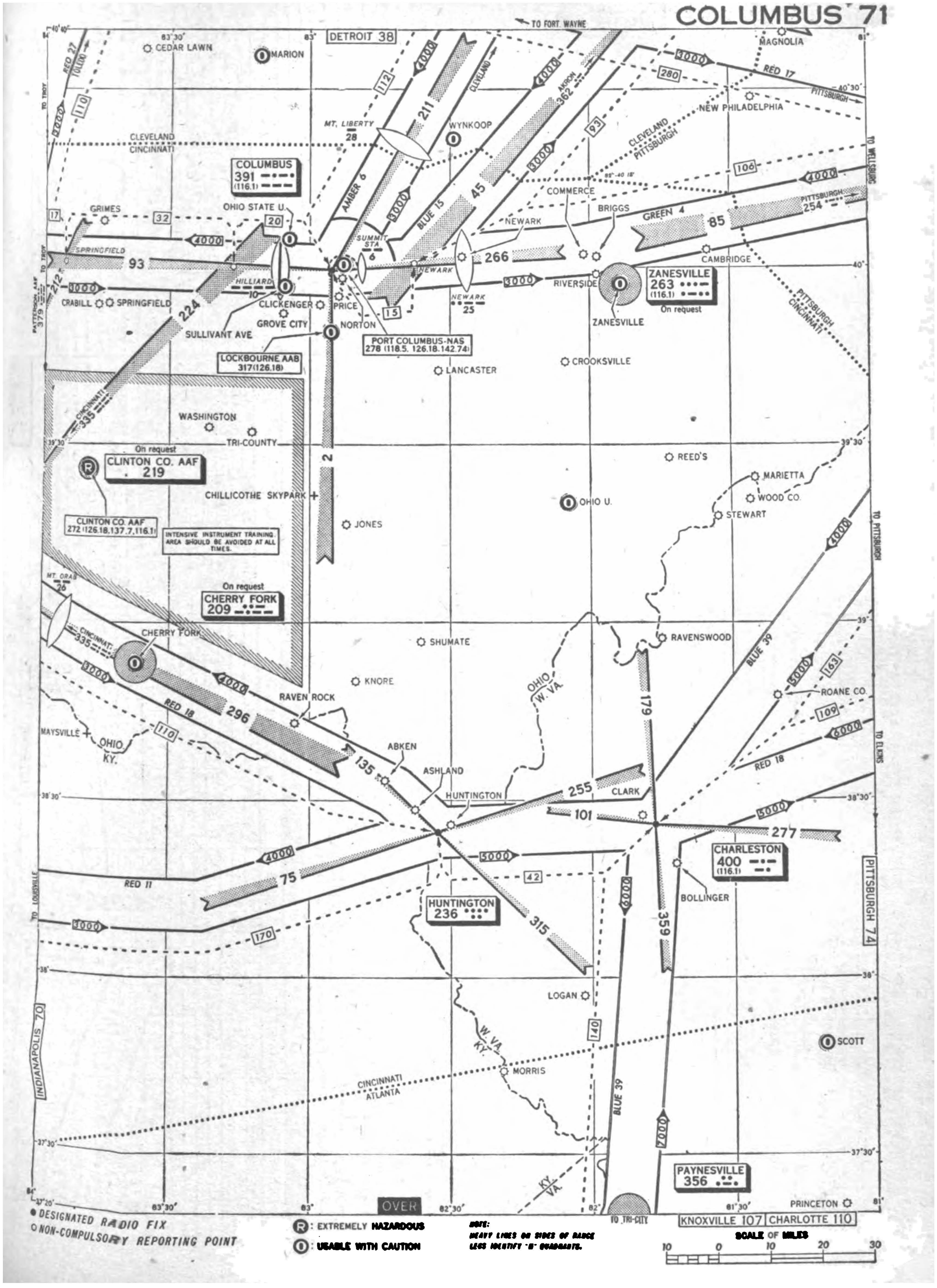
○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS

Ⓤ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" BOUNDARIES.

COLUMBUS 71


TO FORT WAYNE
DETROIT 38
MAGNOLIA
CEDAR LAWN
MARION
RED 27
TOLLOW
TO TROY
110
4000
112
211
CLEVELAND
4000
AKRON
362
280
3000
RED 17
PITTSBURGH
40°30'
NEW PHILADELPHIA
MT. LIBERTY
28
WYNKOOP
CLEVELAND
CINCINNATI
CLEVELAND
PITTSBURGH
93
3000
106
4000
TO WELLSBURG
COLUMBUS
391
(116.1)
AMBER 6
3000
BLUE 15
45
COMMERCE
GRIMES
17
32
OHIO STATE U.
20
BRIGGS
PITTSBURGH
254
GREEN 4
85
NEWARK
SUMMIT STA
6
SPRINGFIELD
93
4000
266
CAMBRIDGE
40°
NEWARK
TO TROY
212
3000
HILLIARD
10
RIVERSIDE
ZANESVILLE
263
(116.1)
On request
CRABILL
SPRINGFIELD
CLICKENGER
PRICE
15
NEWARK
25
PATTERSON AAF
379
224
GROVE CITY
NORTON
ZANESVILLE
SULLIVANT AVE
PORT COLUMBUS-NAS
278 (118.5, 126.18, 142.74)
PITTSBURGH
CINCINNATI
LOCKBOURNE AAB
317(126.18)
CROOKSVILLE
LANCASTER
CINCINNATI
335
WASHINGTON
39°30'
TRI-COUNTY
39°30'
On request
CLINTON CO. AAF
219
REED'S
MARIETTA
WOOD CO.
OHIO U.
CHILLICOTHE SKYPARK
JONES
STEWART
CLINTON CO. AAF
272 (126.18, 137.7, 116.1)
INTENSIVE INSTRUMENT TRAINING AREA SHOULD BE AVOIDED AT ALL TIMES.
TO PITTSBURGH
2
MT. ORAB
26
On request
CHERRY FORK
209
CINCINNATI
335
CHERRY FORK
SHUMATE
RAVENSWOOD
39°
BLUE 39
3000
4000
KNORE
OHIO
W. VA.
179
5000
163
ROANE CO.
RAVEN ROCK
296
109
6000
MAYSVILLE
OHIO
KY.
110
RED 18
ABKEN
135
ASHLAND
HUNTINGTON
38°30'
255
CLARK
38°30'
101
5000
277
4000
5000
CHARLESTON
400
(116.1)
RED 11
75
42
6000
BOLLINGER
TO LOUISVILLE
HUNTINGTON
236
315
359
PITTSBURGH 74
3000
170
38°
38°
LOGAN
140
INDIANAPOLIS 70
W. VA.
KY.
SCOTT
MORRIS
CINCINNATI
ATLANTA
BLUE 39
7000
37°30'
37°30'
KY.
VA.
PAYNESVILLE
356
84°
37°20'
83°30'
83°
OVER
82°30'
82°
81°30'
PRINCETON
81°
10 TRI-CITY
KNOXVILLE 107
CHARLOTTE 110
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R : EXTREMELY HAZARDOUS
O : USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF BLUE LEGS INDENTIFY "B" BOUNDARYS.

COLUMBUS

RADIO

OHIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHERRY FORK (Int.)	209 (UY)	MHT	(4)
CLINTON CO. (Wilmington)	272 (126.18) (137.7) (116.1)	CA(ILS)	(3); 126.18,137.7,116.1 (GCA)
Clinton County (Wilmington) (Army)	219	K	0.2 mi. end Rnwy 22, (8-1630, Mon.-Fri.)
COLUMBUS (Port Columbus NAS)	391 (CO)(116.1)	SBRAZ-VDT, 86°, 1.9	(3); 116.1
HILLIARD FM	(- - - -)	FM, 273°, 9.8	Columbus
LOCKBOURNE AAB(Columbus)	317 (126.18)	CA (ILS)	(3), 126.18
MT. LIBERTY FM	(-)	FM, 31°, 27.8	Columbus
MT. ORAB FM	(- -)	FM, 116°, 25.5	Cincinnati
NEWARK FM	(. . - -)	FM, 86°, 25	Columbus
PORT COLUMBUS NAS (Columbus)	278 (118.5) (126.18,142.74)	AC	(4), 131.9, 118.5, 126.18, 142.74
SUMMIT STATION LFM	(- -)	LFM, 86°, 5.6	Columbus
ZANESVILLE	263 (VL)(116.1)	MHVT	(4), 116.1
	WEST VIRGINIA		
CHARLESTON	400 (KN)(116.1)	SBMRAZ-VDT	(4), 116.1
HUNTINGTON	236 (HI)	BMRLZ-DT, 75°, 2.4	(4)
PAYNESVILLE	356 (IR)	H	Operated by PCA (6-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
LOCKBOURNE AAB, OHIO	109.9		3° Mag.	IM	(.16)	MM	····· (.85)	OM	-- (4.29)
						MMK		OMK	
CLINTON CO. AAF, OHIO	108.3	332.6	320° Mag.	IM	(.05)	MM		OM	
						MMK		OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

KENTUCKY

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abken (Russell)	2.7 NW,riv N	555	26 S3	80 oct. Data not verified.
Ashland	1 E, RR SE	535	29 S4	80 oct.
Maysville	3.5 NW		26 S2	Fuel. Data not verified.
	OHIO			
Briggs (Zanesville)	6.4 NNE,RR W	780	18 S2	80 oct. Poles E.
Cambridge	2 N, RR W	800	27 L3 S2	73 oct.
Cedar Lawn (Kenton)	2.3 S, RR E	975	18 S2	80 oct. Poles E.
* Cherry Fork Int,4,CC-WA	0.5 NNW	939	39 R1 L3	
Chillicothe Skypark	1.8 N,RR E	640	30 S4	80,91 oct. Data not verified.
Clickenger (Columbus)	6.2 SSE,RR E	748	26 S2	80 oct. Poles surround fld.
(A) Clinton County AAF (Wilmington)(A)	2 SE,hwy NE	1062	60h R3 L5 S1	73, 91, 100 oct. JP-1. No rng.
Commerce (Zanesville)	6.5 N,RR,riv E	800	28 S2	73, 80 oct.
Crabill (Springfield)	2.5 SE,RR E	1040	29 S6	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

OHIO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Crooksville	2.3 S,RR NW	760	22 S2	No fuel. Poles N
Grimes (Urbana)	1.5 N,RR W	1055	35 L4 S6	80 oct. Fld lgts prior req.
Grove City	1 S, RR W	860	21 S6	73,80 oct. No sto. Poles W.
Jones (Chillocothe)	7.2 SE,RR SW	720	20 S2	Ltd 80 oct.
Knore (Minford)	2 SE,RR W	670	20 S6	80 oct. No sto. Pwr line S.
Lancaster	2.5 E,RR N,SW	830	25 S4	80 oct. Poles E.
(A) Lockbourne,AAB (Columbus)(A)	11.5 SSE,RR W	738	55h R3 L5 S5	73, 100 oct. JP-L No range.
Magnolia	0.5 NW,RR SE	970	22 S1	80 oct. Trees W.
Marietta	1.8 ESE,riv S	615	27 S2	80 oct.
Marion	2.5 WNW,RR S	915	28 S2	80 oct.
Newark,2, CO-PG	3.5 SW,RR N	880	25 L3 S2	73 oct. 200' stacks S.
New Philadelphia	2.5 SE,RR SW	885	36 S6	80 oct. Poles N,E,W
Norton (Columbus)	6.5 E,RR N	800	22 S6	80, 91 oct. Pole line N.
Ohio State University (Columbus)	8 NNW,riv E	900	22h S2	80, 91 oct.
Ohio Univ. (Athens)	1.5 E,RR S	640	40 S6	80 oct.
(N) Port Columbus - NAS (Columbus)	7 E, RR S	815	50h R2 L5 S6	80-100 oct. Poles NW.
Port Core (Rushsylvania) (NC)	1.6 SSW,RR NW	1275	14	Poles NNE; trees SSW.
Price (Columbus)	6 SE	760	22 S6	80 oct. Poles S, SE.
Raven Rock (Portsmouth)	3.5 WSW,riv S	538	24 L3 S6	80,91 oct. Lgtg fac not verified.
Reed's (Watertown)	4.9 W,hwy E,S	820	13 S1	80 oct. Pole line NE.
Riverside (Zanesville)	3.4 NNE,RR W	700	40 S4	80 oct. Hill, trees NNE,SSW.
Scioto Trail State Forest (Chillicothe)(NC)	8 SSE,RR NE	640	24	
Shumate (Jackson)	8 SSE,RR NE	720	20 S1	80 oct.
Springfield	4.2 ESE,RR N	1050	27 L4 S4	80 oct. No sto. Fld lgts prior req.
Sullivant Ave. (Columbus)	6 WSW,RR NW	860	31 S6	80,91 oct. Pole line S.
Tri-Co. (New Holland)	3 ESE,RR N	850	21 S1	80 oct.
Twin Cities (Gallipolis)	1.8 ENE,riv SE	563	30	Trees E. (NC)
Washington (Wash.C.H.)	4.5 ENE,RR S	910	22 S1	80 oct. Pole line S.
Wolfords (Amanda)(NC)	0.8 E, RR NW	960	13	
Woodsfield (NC)	1 W,hwy NE	1220	19	
(P) Wynkoop (Mt.Vernon)	1.4 SSW,RR NW	1050	34 S1	80,91 oct. Pole line E. RR E.
Zaleski St. Forest Svc.	1 SSW,RR NW	705	22	(NC)
(P) Zanesville	6.2 E,hwys N,S	902	50h R1 L5 S1	80 oct. prior req.
(P) Huntington(Chesapeake)	2 WSW, riv S	560	29h R1 S6	73, 80 oct

WEST VIRGINIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bollinger(Charleston)	4.5 SW,riv N	900	21 S4	80 oct.
Clark (Winfield)	5 N St.Albans	600	27 S6	73 oct. No sto. River E.
Morris (Williamson)	5 NNW,RR E	600	12 S1	80 oct. Pole line S.
Princeton	1.7 SW,hwy E	2450	20 S4	80 oct.
Ravenswood	0.6 NNW,RR W	600	23 S1	Ltd 80 oct. Obsts sur fld.
Roane Co. (Spencer)	1 SE,hwy NE	954	17 S1	80 oct.
(P) Scott (Mt.Hope)(Beckley)	2.6 N, RR E	2440	33 L1 S6	80, 91 oct. Trees N.
Stewart (Parkersburg)	2.3 NNW,riv W	602	33 S6	80 oct. Pole line SE.
(P) Wood Co. (Parkersburg)	7 NE, hwy E	835	45h L5 S6	80, 91, 100 oct. All lgts prior req.
Logan	7.2 NNW,riv E	630	15h S1	80 oct. Hill S,N.

RADIO

PENNSYLVANIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALLEGHENY CO. ARPT (Pittsburgh)	278 (126.18 (118.7)	AC	(4);140.1,131.1,126.18
ALTOONA (Altoona-Blair Co.)	338(RF) (116.1)	SBMRAZ-VDT;203°. 1.3	(4);116.1
CECIL FM	(▪ ▪ ▪)	FM, 265°, 10.3	Pittsburgh
GREATER PITTSBURGH AIRPORT PITTSBURGH	396 (126.18	CA	(3);126.18
HOOKSTOWN FM	(- - - -)	FM,308°, 32	Pittsburgh
MT. PLEASANT FM	(- -)	FM,124°, 24.7	Pittsburgh
NEW ALEXANDRIA FM	(-)	FM, 85°, 30	Pittsburgh
PITTSBURGH	254(PT) (116.1)	SBRAZ-VDT ;85°, 2.2	(3);116.1
SUMMERHILL FM	(- - - -)	FM, 281° 22	Altoona
→ CECIL	219(C)	FMK,265°,10.3	Pittsburgh

VIRGINIA

FRONT ROYAL	362 (FZ)	SBMRAZ-DT	(4)
→ GORDONSVILLE (Int)	388(GJ)(116.1)	SBMRAZ-VDT;135°,2.6	(4);116.1
→ LYNCHBURG (Preston Glenn)	206(LB)(116.1)	SBRAZ-VDT;165°,2.1	(4);116.1

WEST VIRGINIA

ELKINS	281(EK)(116.1)	SBMRAZ-VDT; 174°,2	(4);116.1
MARTINSBURG	209(MR) (116.1)	BMRLZ-VDT;35°,2.9	(4); 116.1
MORGANTOWN	269(MG)(116.1)	BMRLZ-VDT;173°,5.6	(4);116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS) IM	MM	OM
PITTSBURGH, PA.			95° Mag.		MMK 201----(.80)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MARYLAND

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Cumberland	2.5 S;riv N,S	780	58h L5 S1	80 oct. Mtns SW.
Mexico Farms(Cumberland)	3 S;RR E	630	36 S2	80 oct.Mtns E.

OHIO

Scott (Tiltonsville)(NC)	1.5 SSW;riv E	650	25	
Toronto	1.5 NW;riv E	1050	22	

PENNSYLVANIA.

Allegheny Val'y(Tarentum)	3.2 W;RR W	1125	24 S4	80 oct.
Altoona(Duncansville)	1 SW;RR E	1050	36 S4	73 oct.
Altoona-Blair Co.24A-CO-PO	15 SSE	1495	44h R1 L4 S2	80,91 oct.
* Buckstown Int.12B,WA-CY	1 E;hwy S	2480	23 L3	
Connellsville	4 SSW;hwy E	1250	34h S2	80 oct.
Cresson	1 NE;RR W	2240	25 S2	80 oct.Pole line S.
(A) Greater Pittsburgh (Pittsburgh)(A)	15 WNW;riv N	1145	55h R1 L5 S4	91,100 oct.JP-1
Greene County (Waynesburg)	2.7 E;RR NW	1100	32 S6	80 oct.
Hamilton (Indiana)	2.5 E;hwy S	1440	26 S6	80 oct.Pole line S.
Harrison City	1.1 NW;hwy S	1230	17	Poles NW.
Huntingdon	1 S;riv NE	620	20 S4	80 oct.Pole line W.
(P) Johnstown	4.7 E;hwy N	2282	45h	
Keystone (Ebensburg)	3 SW;RR NW	2100	23 S4	87 oct.Obst sur fld.
Latrobe	2.8 SSW;hwy N	1144	23h S4	80 oct.
Leechburg	1.6 ESE;hwy W	960	30 S6	73 oct.Pole line N.NE.
Mayer (Pittsburgh)	10 WSW;RR S	770	16 S4	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted, → NEW OR REVISED DATA

PENNSYLVANIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
New Alexandria	1.5 ENE;hwy N	1200	18 S4	80 oct. Pole line N.
PITTSBURGH-ALLEGHENY CO. (Pittsburgh)	5.3 S;RR NW	1251	57h R2 L6 S6	80-100 oct.No ctc lgts.Rdo rec req.
Pittsburgh-Bettis (Pittsburgh)	5 SSE	1250	25h S6	80,91 oct.
Pittsburgh-Greensburg (Greensburg)	2.3 SE;hwy N	1280	26 L3 S6	80 oct.Twr W.No bndry lgts.
Pitt-Wilkins(Pitcairn)	1 NNW	1200	17 S2	80 oct.
Salix	0.6 S;RR NW	2200	24 S4	80 oct.
Somerset	2NNE;RR SE	2200	27 S4	80 oct. Pole line W.
Stultz (Altoona)	10.7 NNE;RR N	970	35 S6	73,80oct.Pole line N,E,NE.
Vandergrift	2 WNW;RR E	1000	21 S2	73 oct. Pole line NW.

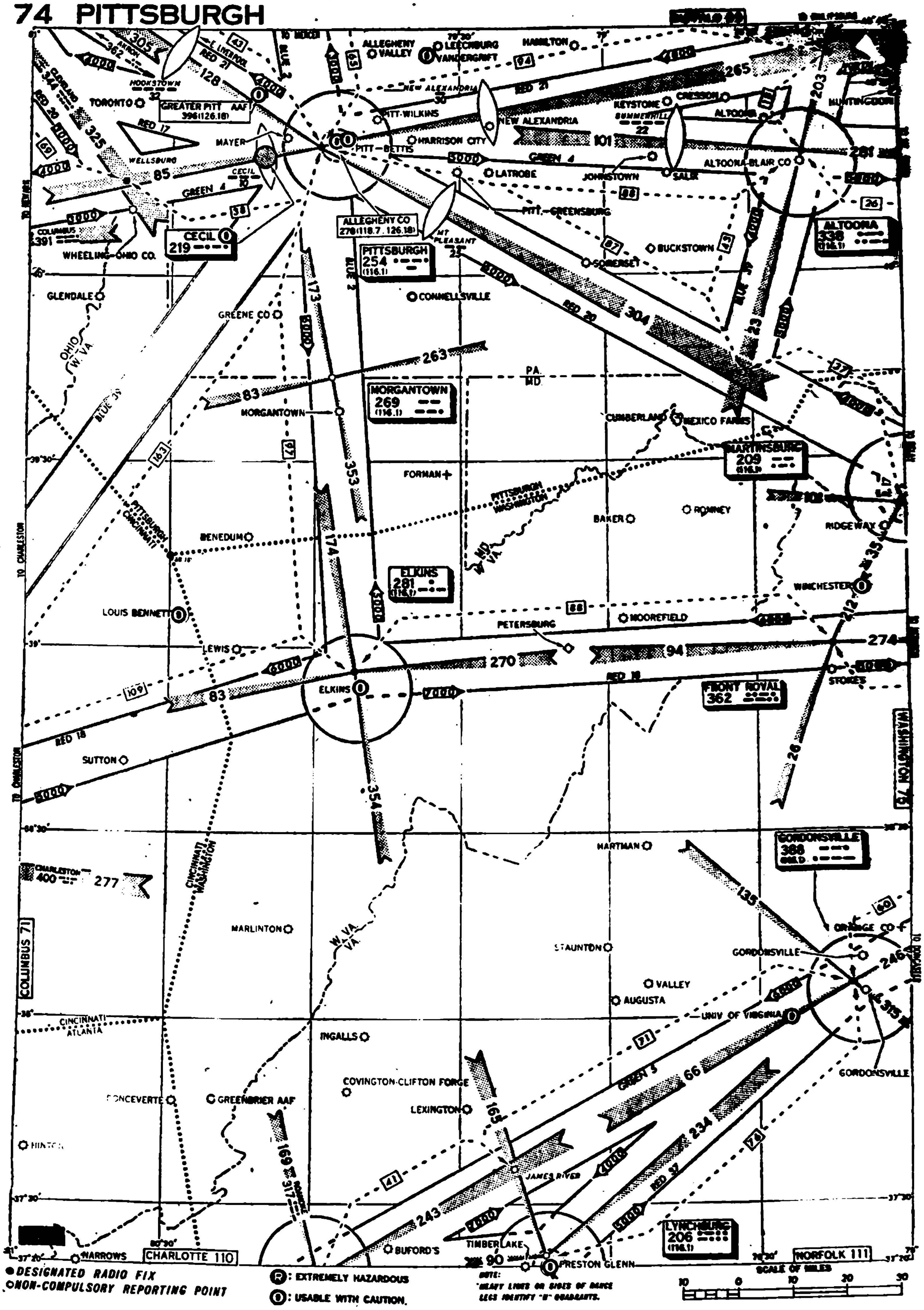
VIRGINIA

Augusta(Waynesboro)	6 WSW;riv SE	1420	24 S4	80 oct.Bad pole line SE.
Buford's (Montvale)	0.5 S;hwy N	1000	33 S6	80 oct. 100' hill E.
Covington-Clifton Forge	6.5 E;hwy S	1115	24 S4	80 oct.
Gordonsville	2.9 NE;RR S,SE	475	18 S6	80 oct. Trees NE,SW.
* " Int,51,NA-WA	5 SSE	438	31 R1 L3	Pole line SW.
Hartman(Harrisonburg)	1 NW	1350	22 S4	80 oct.
Ingalls (Hot Springs)	3 S;hwy W	3780	31 S2	80 oct. Closed winters.
Lexington	2.7 SW;hwy S	1200	17 S1	73 oct. Pole line NE,SW.
Narrows	1 E;RR S	1550	20 S2	Ltd 80 oct. Trees W.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
Staunton	4.4 NE;RR NW	1300	26 S6	80,91 oct.Pole line NNE.
Stokes (Front Royal)	2.5 W;riv E	735	19 S2	80 oct. Pole line S,E.
Timberlake (Lynchburg)	9.5 SW;RR N	950	26	
University of Virginia (Charlottesville)	5 ESE;riv E	300	35 S6	80 oct. Trees ESE.
Valley (Waynesboro)	1.7 NNE;RR E	1300	26 S2	80 oct. Pole line ENE,SSW
Winchester	3 SSE;hwy E,S	700	22 S6	80 oct.
Orange County (Orange)	4 E;hwy S		20	Data unverified.

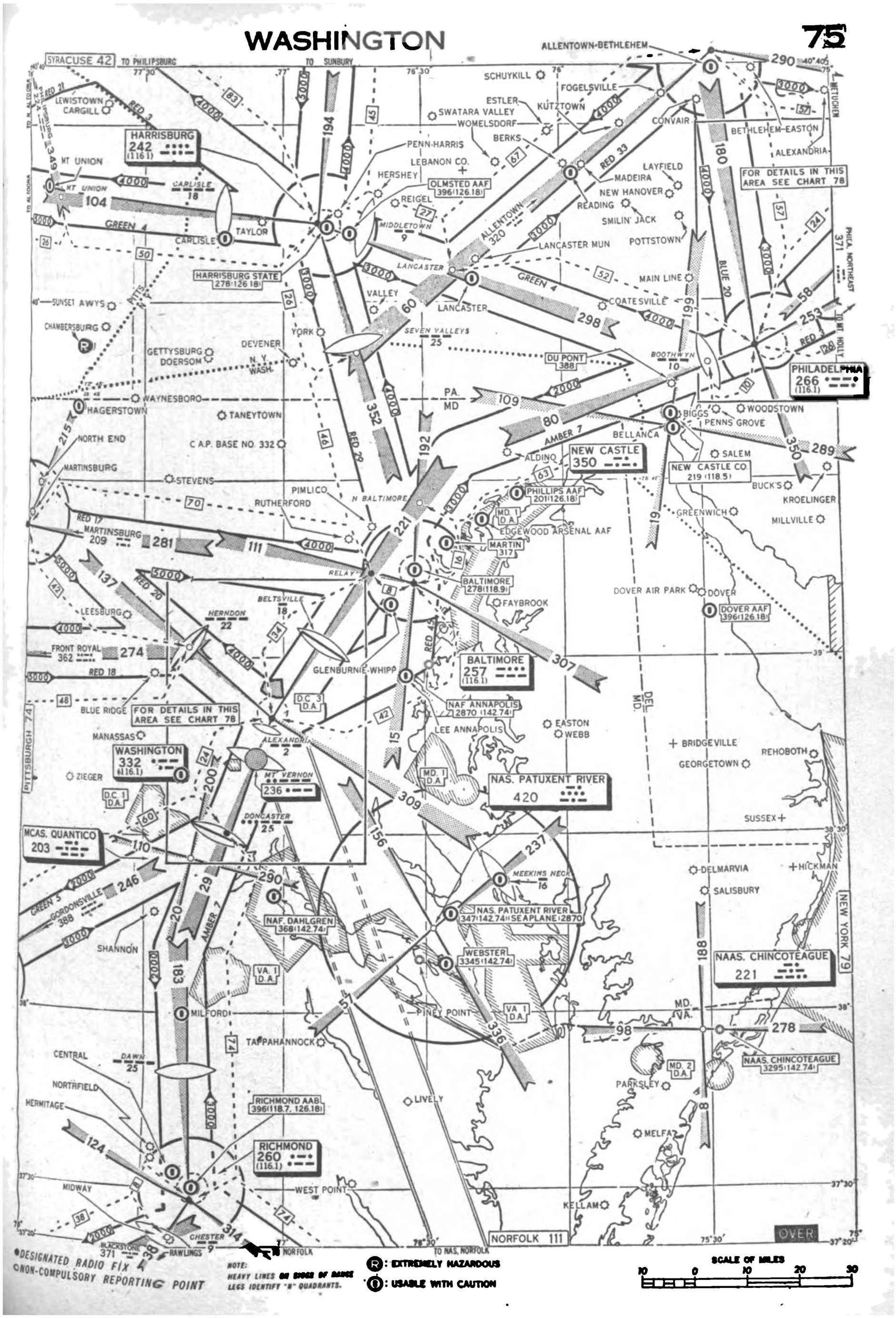
WEST VIRGINIA

Baker Airpark(Burlington	0.5 NNE;hwy S	740	19 S4	80 oct.
(P) Benedum (Clarksburg)	6 E;hwy S	1170	38h S6	80,91 oct.
(P) ELKINS	2.6 S;RR W	1965	45h R1 L5 S4	80,91 oct. No sto.
Forman (Terra Alta)	1 N;hwy W	2750	18 S4	80 oct.No sto.Data unver.
Glendale	0.5 WSW;bet RR & river	640	29 S6	80 oct.Trees N,S;Pole line S.
(A) Greenbrier AAF (White Sulphur Springs)(A)	2 SW	1795	35h	
Hinton	4.8 WSW;RR E	2600	26 S4	80 oct. Pole line NNW.
Hinton-Alderson(Pence Springs)(NC)	1 E;riv,RR S	1520	26	Hill W,E.
Lewis (Buckhannon)	2.4 W;hwy N	1435	18 S4	80 oct.No sto.Hills sur fld.
Louis Bennett(Weston)	3.2 N;RR E	996	37	Hill S;pole line WNW
Marlinton	1.5 NNE;RR SE	2475	21 S2	80 oct. Hill WNW
(P) Martinsburg	4 S;hwy W	550	50h R1 L5 S6	80,91 oct.
Moorefield	0.8 NE;RR W	980	26 S4	80 oct. Trees WNW.
(P) Morgantown	2.2 ENE;hwy NW	1254	36h R1 L3 S6	80 oct.
* Petersburg Int.29,CC-WA	1.2 WSW;riv N	945	27 L2 S4	80 oct. No sto.
Ridgeway (Bunker Hill)	2.3 SSW;RR E	600	20 S6	80 oct.No sto.Pole line SSW.
Romney	2.1 NNE;riv W	750	16 S2	80 oct.Mts WNW,ESE,SSE.
Ronceverte	2 N;hwy SE	2175	18 S2	80 oct.
* Sutton Int. 21, CC-WA	3.6 ENE;RR W	1264	32 L3	
→ Weirton(Hollidays Cove)	1.5 E		11 S6	80 oct. Data unverified.
(P) Wheeling Ohio County	7.5 NNE;riv W	1190	50h L5	All lgts prior req.

74 PITTSBURGH



WASHINGTON


SYRACUSE 42
TO PHILIPSBURG
TO SUNBURY
ALLENTOWN-BETHLEHEM
HARRISBURG 242 (116.1)
MT UNION
CARLISLE 18
TAYLOR
HARRISBURG STATE 278(126.18)
OLMSTED AAF 396(126.18)
HERSHEY
REIGEL
MIDDLETOWN 9
LEBANON CO.
PENN-HARRIS
SWATARA VALLEY
WOMELSDORF
ESTLER
KUTZTOWN
SCHUYKILL
FOGELSVILLE
CONVAIR
BETHLEHEM-EASTON
ALEXANDRIA
METUCHEN
FOR DETAILS IN THIS AREA SEE CHART 78
LAYFIELD
MADEIRA
NEW HANOVER
READING
SMILIN' JACK
POTTSTOWN
LANCASTER MUN
ALLENTOWN 320
LANCASTER
VALLEY
YORK
SEVEN VALLEYS 25
MAIN LINE
COATESVILLE
PHILA. NORTHEAST 371
MT. HOLLY
SUNSET AWYS
CHAMBERSBURG
GETTYSBURG
DOERSOM
DEVENER
N. Y. WASH.
DU PONT 388
BOOTHWYN 10
PHILADELPHIA 266 (116.1)
WAYNESBORO
HAGERSTOWN
TANEYTOWN
C.A.P. BASE NO. 332
NORTH END
MARTINSBURG
STEVENS
PIMLICO
RUTHERFORD
N. BALTIMORE
PA.
MD.
BIGGS
WOODSTOWN
PENNS GROVE
BELLANCA
ALDINO
NEW CASTLE 350
NEW CASTLE CO. 219 (118.5)
SALEM
BUCK'S
KROELINGER
GREENWICH
MILLVILLE
PHILLIPS AAF 201(126.18)
MD. 1 D.A.
EDGEWOOD ARSENAL AAF
MARTIN 317
BALTIMORE 278(118.9)
FAYBROOK
DOVER AIR PARK
DOVER
DOVER AAF 396(126.18)
MARTINSBURG 209
LEESBURG
HERNDON 22
BELTSVILLE 18
FRONT ROYAL 362
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BALTIMORE 257 (116.1)
BLUE RIDGE
FOR DETAILS IN THIS AREA SEE CHART 78
D.C. 3 D.A.
NAF ANNAPOLIS 2870 (142.74)
LEE ANNAPOLIS
EASTON
WEBB
MANASSAS
WASHINGTON 332 (116.1)
ALEXANDRIA 2
ZIEGER
MT. VERNON 236
D.C. 1 D.A.
DONCASTER 25
NAS. PATUXENT RIVER 420
BRIDGEVILLE
GEORGETOWN
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SUSSEX
MCAS. QUANTICO 203
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NAF. DAHLGREN 368(142.74)
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NAS. PATUXENT RIVER 347(142.74) SEAPLANE 2870
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VA. 1 D.A.
DELMARVIA
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MD. VA.
NAAS. CHINCOTEAGUE 3295(142.74)
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PARKSLEY
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DAWN 25
NORTHFIELD
HERMITAGE
RICHMOND AAB 396(118.7, 126.18)
LIVELY
RICHMOND 260 (116.1)
MELFA
MIDWAY
WEST POINT
KELLAM
BLACKSTONE 371
RAWLINGS 9
CHESTER
NORFOLK
NORFOLK 111
TO NAS. NORFOLK
OVER
*DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF BASIC LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
①: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

RADIO AIDS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DELAWARE DOVER AAF	396 (126.18)	CA	(3); 126.18 (7-19)
DUPONT ARPT (Wilmington)	388	CI	3105,3117.5,5582.5(8-20 daily except Sun.)
NEW CASTLE	350 (NC)	SBRAZ	
→ New Castle Co.Arpt.	219 (118.5)	CI; 19°, 2.8	3105,6210,3117.5;118.5
DIST. OF C. WASHINGTON	332 (WA)(116.1)	SBRAZ-VDTX	(3); 116.1
MARYLAND ANNAPOLIS	2870 (142.74)	CN	3105,2870,6420; 142.74 (7-17)
BALTIMORE	257 (BO)(116.1)	BMRLZ-VDT	(3); 116.1
Baltimore Mun. Arpt.	278 (118.9)	C; 12°, 2.3	(4); 131.9,126.18,118.9
BELTSVILLE FM	(-)	FM; 41°, 17.6	Washington, D. C.
DONCASTER FM	(. . - - - -)	FM; 209°, 24.7	Washington, D. C.
MARTIN ARPT (Baltimore)	317	CI	(4)(8-sunset Mon - Fri.)
MERKINS NECK FM (Navy)	(-)	FM; 57°, 16	Patuxent River
PATUXENT RIVER (Navy)	420 (NHK)	BMRLZ	(3); 142.74 (GCA)
Patuxent River NAS	347 (142.74)	CN; 57°, 4	(3); 142.74
PHILLIPS FIELD (Aberdeen)	201 (126.18)	CA	(3);126.18 (8-18, Mon thru Fri.)
WEBSTER (Priest Point)	3345 (142.74)	CN	3105; 142.74 (8-1630)
PENN. BOOTHWYN FM	(- - -)	FM, 260°, 9.5	Philadelphia
CARLISLE FM	(- - - -)	FM, 284°, 18	Harrisburg
HARRISBURG	242 (HX)(116.1)	SBRAZ-VDT	(3); 116.1
Harrisburg State Arpt.	278 (126.18)	C; 118°, 1.1	(4); 116.1,131.9,126.18
MIDDLETOWN FM	(- -)	FM, 118°, 9	Harrisburg
OLMSTED FIELD (Middletown)	396 (126.18)	CA	(4); 126.18
PHILADELPHIA(Southwest Arpt	266 (PG)(116.1)	SBMRAZ-VDT;97°, 3	(4); 116.1
SEVEN VALLEYS FM	(- - -)	FM, 172°, 25	Harrisburg
VIRGINIA ALEXANDRIA LFM	(- - -)	LFM, 209°, 2.4	Washington, D. C.
CHESTER FM	(- -)	FM, 218°, 9.15	Richmond
CHINCOTEAGUE (Navy)	221 (NKZ)	MRLZ	3105,4495; 142.74
Chincoteague NAAS	3295 (142.74)	CN; 98°, 4.5	(3); 142.74
DAHLGREN NAP PROV.GROUNDS	368 (142.74)	CN	(3); 142.74 (8-16 except Sun.)
DAWN FM	(- - - -)	FM, 3°, 25.1	Richmond
HERNDON FM	(- - - -)	FM, 317°, 21.8	Washington, D. C.
MOUNT VERNON FM	(. . - - -)	FM, 209°, 8.2	Washington, D. C.
RICHMOND	260 (RW)(116.1)	SBRAZ-VDT	(3); 116.1
Richmond AAB	396 (126.18)	AC (ILS);20°, 1.9	(4); 131.9,118.7,126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
RICHMOND AAB, VIRGINIA	109.9		63° Mag.	IM (.17)	MM ·····(.90)	OM - - (4.50	
					MMK		OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DELAWARE Bellanca (New Castle)	1.5 W	30	25h L1 S5	80,91 oct. Poles N.
Biggs (New Castle)	1 NW;riv S,SE	60	21 S2	80 oct.
Bridgeville	1.5 S	20	27 S6	80 oct. Data not verified.
Dover	1.4 ENE;crk NW	34	19 S2	80 oct. Pole line N.
" Airpark	2.2 N; rd W	37	25 S2	80 oct.
(A) " AAF (A)	4 SE; hwy E	28	70h R1	INACTIVE.
duPont (Seaford) (NC)	0.8 WSW; RR NE	25	21	Poles NE. PRIVATE, RESTRICTED.
" (Wilmington)	3 WNW; RR E	185	29 R1 L4 S4	80 oct. No sto.
(P) Georgetown	1.5 E; RR NW	51	50h	
(P) New Castle County (Wilmington)	4.8 SW;hwy SE	75	70h R2 L5 S1	80,91 oct.
Rehoboth Beach Aircrafters	2.5 W; hwy N	10	35 S6	80,91 oct. Obsts sur fld.
Skycraft (Wilmington) (NC)	3 NE; rd N	250	15	Poles N,W,S; trees NW,SE.
Sussex (Frankford)	1 N		24 S4	80 oct. Data not verified.
MARYLAND Aldino (Churchville)	2.2 NE;RR SE	400	20 S6	80 oct.
Andelot (Worton)(NC)	4 WNW; bay W	25	20	Trees N.
BALTIMORE MUN.	6 SE; RR NE	14	46h R2 L5 S6	80,91 oct; 100 oct prior req.
C.A.P Base (Westminster)	2.6 N; hwy E	780	20 S4	80 oct. Pole line E, NE.
Delmarvia (Salisbury)	2.8 NE; hwy W	45	21 S6	80 oct. Pole line N,E,NE.
Easton	2.2 N; RR E	66	40h S4	80 oct. No sto.
(A) Edgewood Arsenal (A)	1.3 S	18	50h L5 S4	91,100 oct. No ben. CLOSED.
Faybrook (Rock Hall)	1.5 NNW; bay W	20	14 S4	80 oct. Trees WNW, NNE.
Glenburnie-Whipp	1 E; hwy W	56	26 S6	80 oct. Seaplane Anchorage.
Hagerstown	4.2 N; RR W	700	39h L3 S4	80 oct. Fld lgts prior req.
Lee Annapolis (Annapolis)	4.8 WSW;hwy E	30	28 S1	73 oct. Pole line ESE.
Martin (Baltimore)	10 E; RR N	18	70h R1	PRIVATE.
(N) Patuxent River NAS (N)	2.9 NE Jarboes	38	97h R2 L6 S4	91,100 oct. JP-1. NATS.
(A) Phillips (Aberdeen)(A)	3.2 S; RR W	57	50h R1 L5 S1	91,100 oct. CLOSED.
Pimlico (Baltimore)	6 NW; hwy SW	400	32 S6	80, 91 oct.
(N) Piney Point (N)	0.8 WNW	10	14h S1	73 oct. Use rnwys only.
Rutherford (Baltimore)	7 W; RR W	500	23 S6	80 oct. Twr N
Salisbury	5.3 ESE	52	50h	
Shady Side (NC)	1.8 SSW; RR W	10	15	Pole line SSW.
Stevens (Frederick)	5.8 N; hwy E	440	28 S6	80 oct. Trees SW,S,W.
Taneytown	2.9 WNW;hwy S	500	20 S4	80 oct. Pole line S,SW,W.
Webb (Easton)	2.5 E	50	26 S6	80 oct. No sto. Pole line S, SE.
(N) Webster (Priest Point)(N)	1.5 W Ingles	21	50h R1 S1	Ltd 100 oct. JP-1 req.
N. J. Alexandria (Pittstown)	2 WNW;lake NE	340	18 S4	80 oct. No sto. Trees WSW,ENE.
Rock'n (Bridgeton)	3.7 NNE; RR S	100	18 S4	80 oct. Pole line S, W.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X IV) (NC)-Not charted. → NEW OR REVISED ENTRIES

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Greenwich	2.5 W; riv SW	30	21 S6	73,80 oct. Trees N.
Kroelinger (Vineland)	2.5 NNW;RR E	100	19 S6	80 oct. Pole line S, E.
(P) Millville	3.3 SW;lake N	68	50h	
Penns Grove	3 SE; riv W	10	22 S2	73 oct. Pole line W, SSW.
Salem	2 ESE; rd S	15	22 S6	80 oct.
Woodstown (Auburn)	1.5 SSE; RR E	100	20 S1	80 oct. Pole line N, NE.
PENN. ALLENTOWN-BETHLEHEM	4.6 NNE; RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only.Fld lgts prior req
Berks (Reading)	4.5 NW; hwy SW	330	23 S4	80,91 oct. Hill NW.
Bethlehem-Easton (Easton)	4.5 SW; riv S	360	23 S6	80,91 oct.No sto.Pole line sur fld.
Cargill (Granville)	1.5 SW; RR SE	490	23 S2	73 oct. Obsts sur fld.
Carlisle	1.8 WSW; RR N	480	23 S2	73 oct.
Centerville (Carlisle)(NC)	11.3 SW;RR N	660	23	Trees E, NE.
Chambersburg	1.2 SSE;RR SW	650	22 S6	80 oct. E/W strip rough.
Coatesville	1.6 W; RR S	623	26 L1 S4	80 oct. Obsts sur fld.
Convair (Allentown)	3 SSW	399	40h	
Devener (Hanover)	2 NNE; hwy W	590	20 S6	73,80 oct.
Doersom (Gettysburg)	2.4 NW; RR N	590	19 S6	73 oct. Pwr line NE.
Estler (Mohrsville)	3.5 W; pond W	390	22 S6	Ltd 80 oct. Trees W.
Fogelsville	0.7 E; RR SE	460	22 S4	80 oct. No sto. Pole line SW.
Gettysburg	2.8 NNW;RR SW	600	24 S3	80 oct. No sto.
HARRISBURG STATE	3.5 S; RR N	344	40h R2 L5 S6	80,91,100 oct.
→ Hershey	1.1 NNW;RR S	415	21 S2	80,91 oct.
Kutztown	1.5 S; RR SE	400	25 S4	73 oct.
Lancaster	1.5 NNW;RR SW	320	26 S6	73,80 oct. Pwr line W.
" 35,CO-PG	5.5 N; hwy W	385	27h L4 S4	80 oct. Poles S, WSW.
Layfield (New Hanover)	2 NE; hwy W	320	17 S6	80 oct. Trees SE.
Lebanon County (Myerstown)	2 W; dam N		20 S4	80 oct. Data not verified.
Lewistown	4 SW; riv SE	560	19 S6	80 oct. Wooded hill NW.
Madeira (Reading)	3.2 N; RR W	360	20 L S6	80 oct. Port flood lgts.
Mount Union	4 S; hwy E	560	30 S4	80 oct.
New Hanover	0.5 W; hwy SE	320	20 L S4	80 oct. Port flood lgts.
(A) Olmsted (Middletown)(A)	1 W;RR N;riv S	300	50h R1 L5 S6	62-100 oct.JP-1. Poles N, NE.
→ Penn-Harris (Harrisburg)	4 ESE; RR N	400	25 L S6	80,91 oct.Floodlgts.
Philadelphia Main Line (Paoli)	2.8 WNW;hwy S	310	21 S4	No fuel. Pole line ESE.
Pottstown	4.5 E; hwy N	311	30 S6	80 oct. Bldg NW.
READING	3 NW; riv E	342	52h L1 S6	B-2 lgts prior req.
Reigel (Campbelltown)	1 N; hwy N	475	20 S4	80 oct.
Schuykill (Pottsville)	8.3 ESE;lke SE	510	29 S6	80 oct. Hills SW, E, NE.
Smilin' Jack (Douglassville)	1.3 NW; RR S	200	24 S4	80 oct.
Sunset Airways (Chambersburg)	3.5 NNE; rd E,S	650	25 S1	80 oct. Pole line E, NNW.
Swatara Valley (Pine Grove)	4 WSW; RR N	480	21 S4	80 oct.
Taylor (New Kingston)	0.5 SE; hwy N	440	28 S6	80 oct. Pole line N.
Valley Airpark (York)	3 ENE; RR N	420	21 S4	80 oct. Poles SSE,NNW.
Waynesboro	3 SE; hwy N	700	20h S6	80 oct.
Womelsdorf	3 NW; hwy E	540	13 S1	73 oct.
York	8.3 WSW;RR E	500	19 L S6	73,80 oct. Floodlgts. Pole N.
VIRGINIA Blue Ridge (Herndon)	4 WSW;hwy NE	280	30	Pole line E.
Central (Richmond)	2.5 ENE;RR W	172	45 S6	80 oct. Poles WNW, SE.
(N) Chincoteague NAAS (N)	4.5 WNW;hwy S	38	60h R2 L5 S4	100 oct.
(N) Dahlgren NAP Proving Grounds (N)	0.5 E	20	40h R1 L5 S2	100 oct. CLOSED.
Harcum (NC)	0.2 NW	85	35	Poles, trees sur fld.
Hermitage (Richmond)	3.2 NNW; RR W	200	20 S6	80 oct. Trees, poles E,W.
Hummel (Greys Point)(NC)	3 NE Harmony	30	21	Obsts sur fld.
Kellam (Weirwood)	0.3 SW; RR E	15	20 S1	73 oct. Trees NE,SE.
Leesburg Airpark	0.7 ESE	280	26 S6	80 oct. Pole line NE.
★ Lively Int,6 NW-WA	3.4 WSW;riv W	15	34 L3	35' trees, bldgs NW.
Manassas	2.7 NW; RR S	250	21	Pole line SW,SSE.
Melfa Flight Strip	1.3 W	48	70h	
Midway (Chester)	2 E; hwy S	178	26 S2	80 oct. 20-50' trees E.
★ Milford Int,49B,AG-LG	1.5 S; RR W	134	26 L3	40' trees S,NE,SW.
Northfield (Richmond)	3 N; hwy W	197	20 S4	80 oct.
Parksley	0.6 WNW	25	18 S4	80 oct.
(A) RICHMOND AAB (A)	7.3 ESE;RR S	160	50h R3 L5 S4	73,100 oct.
→ Shannon (Fredericksburg)	1.6 SSE;riv E	50	23 S6	80 oct.
Tappahannock Flight Strip	0.8 W	30	40h	8000' strip avail.
→ West Point	2.3 ESE;riv SSW	24	50h S4	80,91 oct.
Zieger (Warrenton)	3.7 S; hwy NE	440	20 S2	80 oct. Hill NW,W.
W.VA.(P) Martinsburg	4 S; hwy W	550	50h R1 L5 S6	80,91 oct.
North End (Martinsburg)	2.5 NNE;RR W	515	28 S2	80 oct. Pole line N.
Hickman (Ocean City) N.J.	7.5 NW	15	27 S1	80,91 oct.Data unverified.

RADIO

DISTRICT OF COLUMBIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANACOSTIA NAS (Washington)	251(142.74)	CN	(3);142.74(7-sunset and on req.)
BOLLING FIELD (Washington)	219(126.18) (128.16)	CA	(3);126.18,128.16
WASHINGTON	332(WA)(116.1)	SBRAZ-VDTX	(3);126.18
Washington Nat'l Arpt.	278(126.18) (118.5)	AC(ILS);25°,0.9	(4);118.5,126.18,131.9

MARYLAND

ANDREWS FLD (Camp Springs)	317(126.18)	CA	(3);126.18
BELTSVILLE FM	(-)	FM, 41°,17.6	Washington, D. C.
DONCASTER FM	(. . . - - -)	FM, 209°,24.7	Washington, D. C.

PENNSYLVANIA

BOOTHWYN FM	(- - -)	FM, 260°,9.5	Philadelphia
HOLMESBURG LFM	(- - -)	LFM, 238°,6.5	NE Philadelphia
JOHNSVILLE AIRPORT	203 (142.74)	CN	3105 cont,4495,6210;116.1,126.18, 140.58,142.74 on req (8-1/2 hr past sunset)
MUSTIN NAAF (Philadelphia)	251(126.18) (142.74)	CN	(3);126.18,142.74 (7-sunset,other hrs req on request.)
PHILADELPHIA (SW Arpt)	266(PG)(116.1)	SBMRAZ-VDT;97°,3	(4); 116.1
Philadelphia NE Arpt	278	CI	(4)
Philadelphia SW Arpt	278	CI	(4)
NE Philadelphia Range (Phil. NE Arpt)	371 (NF)	MLWZ-DT,238°,2.8	
WILLOW GROVE (Navy)	391 (NXX)	MRLZ	(3); 142.74
Willow Grove NAS	356 (142.74)	CN; 241°,3.35	(3);142.74 (days only except on 1 hr advance notice)
WINGS FIELD (Ambler)	278 -	CI	3105 (9-17)

VIRGINIA

ALEXANDRIA LFM	(- - -)	LFM,209°,2.4	Washington, D. C.
HERNDON FM	(- - - -)	FM, 317°,21.8	Washington, D. C.
MOUNT VERNON	236 (W)	FMK, 209°,8.2	Washington. D. C.
MOUNT VERNON FM	(. . - - -)	FM, 209°,8.2	Washington, D. C.
QUANTICO (Navy)	203 (NYG)	MRLZ	3105, 4495
Quantico MCAS	3295(142.74)	CN; 20°,4.6	(3); 142.74

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
WASHINGTON, D. C.	109.9	333.8	360° Mag.	IM ·····(.03)	MM	OM --(3.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

DISTRICT OF COLUMBIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Anacostia NAS(Washington)	2.4SE Monument	8	50h R1 L5 S4	100 oct. No bcn. (N)
(A) Bolling(Washington)(A)	3 SSE Monument	20	60h R1 L5 S6	73,91,100 oct.JP-1.Ridge E
(A,N)Washington National	2 S Monument	17	69h R3 L6 S2	80,91,100 oct.JP-1 req. Rdo rec. req.730'Rdo Twr,6.2 NW. FOREIGN CLEARING STA.

MARYLAND

(A) Andrews (Camp Spring)(A)	1.5 E	279	55h R1 L5 S4		91,100 oct. JP-1
(N) Beltsville OLF (N)	5 ESE	180	40h		CLOSED.
Capital (Berwyn)	2 NW; RR E	70	20	S4	80 oct. Pole line S.
College Park	8.5 NE of D.C	49	22	S6	80 oct. Hill SE. RR NW.
Columbia Air Ctr (Croom)	3 E; RR W	40	20		Trees N,NNW
Congressional (Rockville)	2 SSE;hwy E	450	32	S6	80 oct. Pole line E,NE.
Curtis (Brandywine)(NC)	3 SSW;RR E	200	18		Pole line N,W.
Erco (Riverdale)	0.4 NE; RR W	50	38	S1	80 oct. Trees E,NE,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

MARYLAND

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(A) Ft. Meade (A)	0.5 NE ctr res	180	20h	
Hyde (Clinton)	2 WSW	249	32h S6	80,91 oct. Trees WNW,NE.
Maryland (Pomonkey)	0.2 S; RR S	170	30 S1	80 oct.
Queens Chapel (Hyattsville)	1.5 W; hwy NE	34	17 S6	80 oct.
Schrom (Greenbelt)	0.3 SW; hwy W	177	27h S6	80 oct. Trees NW,SE.

NEW JERSEY

Almonesson	0.6 NNW	50	18	S6	73 oct. Pole line NNE,SSE.
Bridgeport	0.8 ESE; RR N	23	18	S4	80 oct.
Burlington Airpark	1.7 NE		24	S4	80 oct. No sto.Data unverified.
Central (Camden)	1.8 E;riv S,W	20	25h		Open to private flying.
Echelon (Ashland)	0.5 SE;RR W	100	27	S6	80,91 oct. Pole line NW.
Marlton-Medford (Medford)	4 W	70	19	S4	80 oct. Data not verified.
Mercer County,new (Trenton)	5 NW; RR SE	211	40h		
Mercer County, old (Trenton)	5.8 NW;RR E	200	25	S1	73,80,91 oct.
Merrill (Barrington)	1 ESE; RR E	70	35	S6	80 oct.No sto.Obsts sur fld.
Moorestown	1 NNE; RR S	70	18	S4	80 oct. Trees N.
Pitman	1.6 NNW;RR E	100	17	S6	80 oct. Pole line S,SSW.
Triangle (Glassboro)	4.3 ENE	150	18	S2	80 oct. Pole line SW.

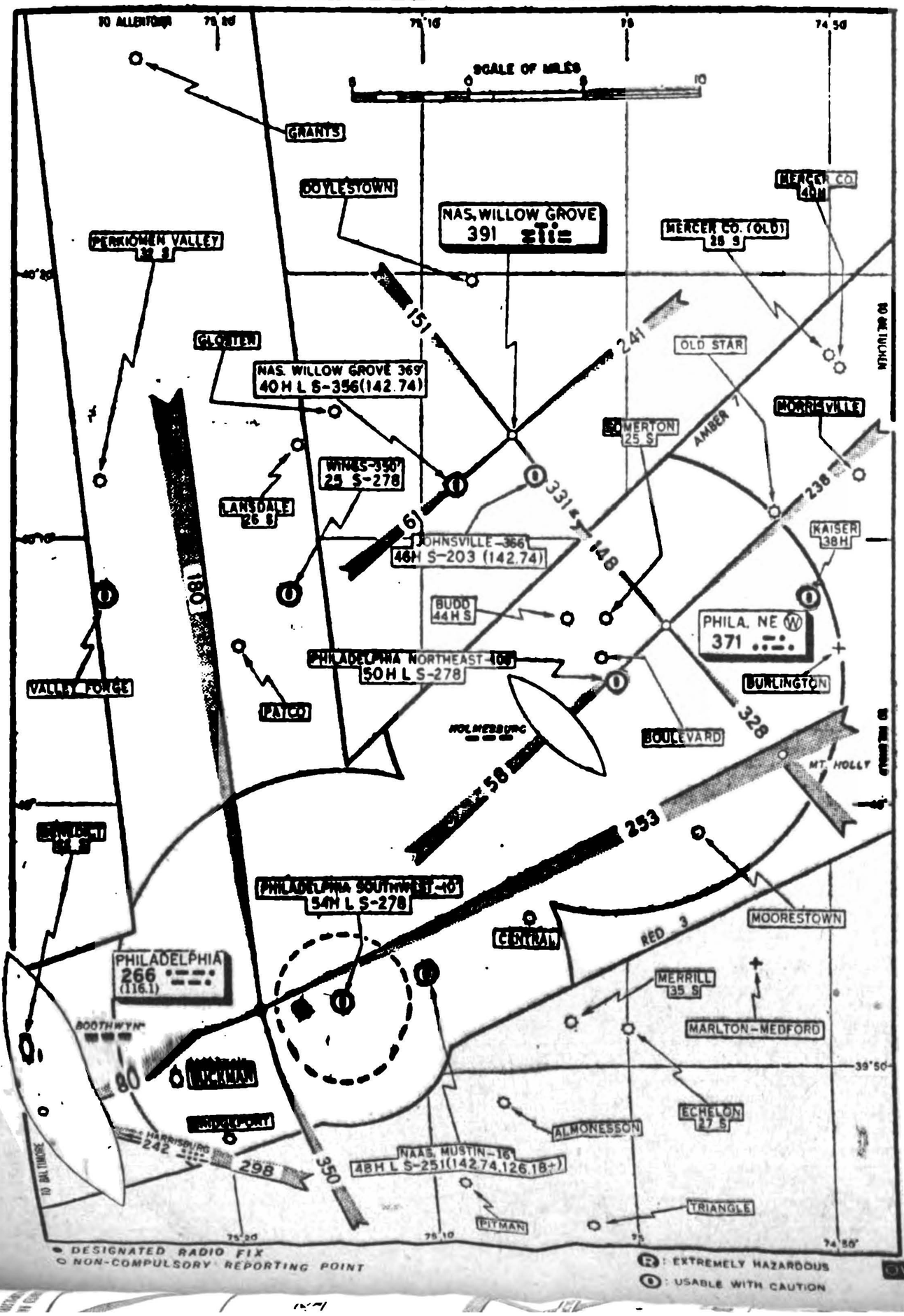
PENNSYLVANIA

Benedict Inc.(Chester)	6.5 W; hwy W	400	26	S4	80 oct.Rnwy data unverified.
Boulevard (Philadelphia)	12 NE; RR SW	160	22	S4	80 oct. Obst sur fld.
Buckman (Chester)	2.3 WSW;RR NW	90	20	S4	80 oct. No sto.
Budd (Philadelphia)	12.5 NE;RR N	240	44h		
Doylestown	1.5 NNE;RR SW	400	22	S6	80 oct.
Gloster (Montgomeryville)	0.7 SE;hwy W	460	22	S1	80 oct. Pole line SE,S,W.
Grants (Quakertown)	4 WNW; hwy E	600	18	S6	80 oct.
(N) Johnsville	0.8 NW; RR E	366	46h R1	S4	91,100 oct. Res't to Navy.
(N) Kaiser (Bristol)	2 N; riv SE	35	38h		Pole line SW. RESTRICTED.
Lansdale	1.6 ESE;hwy SE	450	26	S6	80,91 oct. No sto. Poles NE.
Morrisville	1.6 W;riv E	180	28	S4	80 oct.
(N) Mustin NAAS (Philadelphia)	4 S; riv S	16	48h R1	L5 S6	100 oct. Pole line NE.NAFC.(N)
Old Star (Langhorne)	2.4 E; RR N	180	24	S5	80 oct.No sto. Poles N,S.
Patco (Norristown)	2.5 SE;bet RRs	200	19	S6	80,90 oct. No sto.
Perkiomen (Collegeville)	1.5 NE;rds NE	280	32	S6	80 oct. Obsts sur fld.
(P) Philadelphia Northeast	12.2 NE;hwy W	106	50h R2	L5 S1	80,91 oct.Rdo req.
" SOUTHWEST	6.5 SW;riv SW	10	54h R2	L5 S6	82,91 oct. Rdo rec req.
Somerton (Philadelphia)	14 NE;RR N,E	200	25	S6	80 oct. Poles N,S,W.
Valley Forge (Norristown)	4 WNW;riv NW,SE	250	24	S6	80 oct.
(N) Willow Grove NAS (N)	4 NNW; hwy E	369	40h R2	L5 S4	91,100 oct. No sto.NAFC.NATS.
Wings (Ambler)	3 WSW;rds E,W	350	25	R1 S6	80,91 oct. Trees N,S.

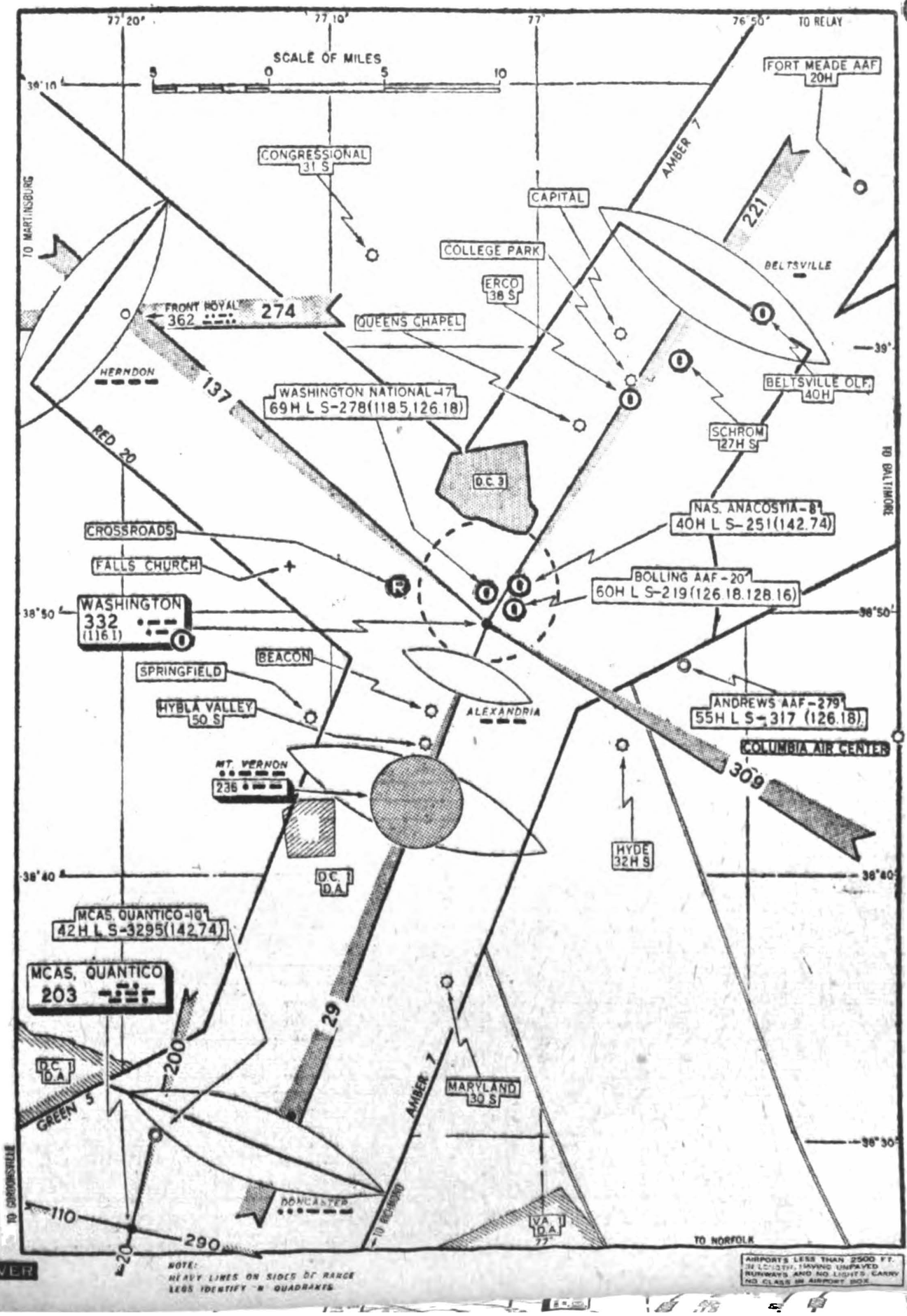
VIRGINIA

Beacon (Alexandria)	3 SSW;hwy E	240	24	L1 S6	80 oct.No sto. Pole line S.
Crossroads (Alexandria)	4.5 NW;RR E	250	20	S1	Ltd 80 oct.
Falls Church Airpark	1.9 SW	350	26	S6	No sto. Data not verified.
Hybla Valley (Alexandria)	4.5 SSW;hwy E	66	50	S6	80 oct. Trees,pole lines sur fld.
(N) Quantico MCAS (N)	1.2 SSW;RR W	10	42h R2	L5 S6	73,91,100 oct. NATS.
Springfield (Annandale)	3.5 SSE;RR E,N	240	20	S4	80 oct. No sto. Obsts sur fld.

PHILADELPHIA AREA



WASHINGTON AREA



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

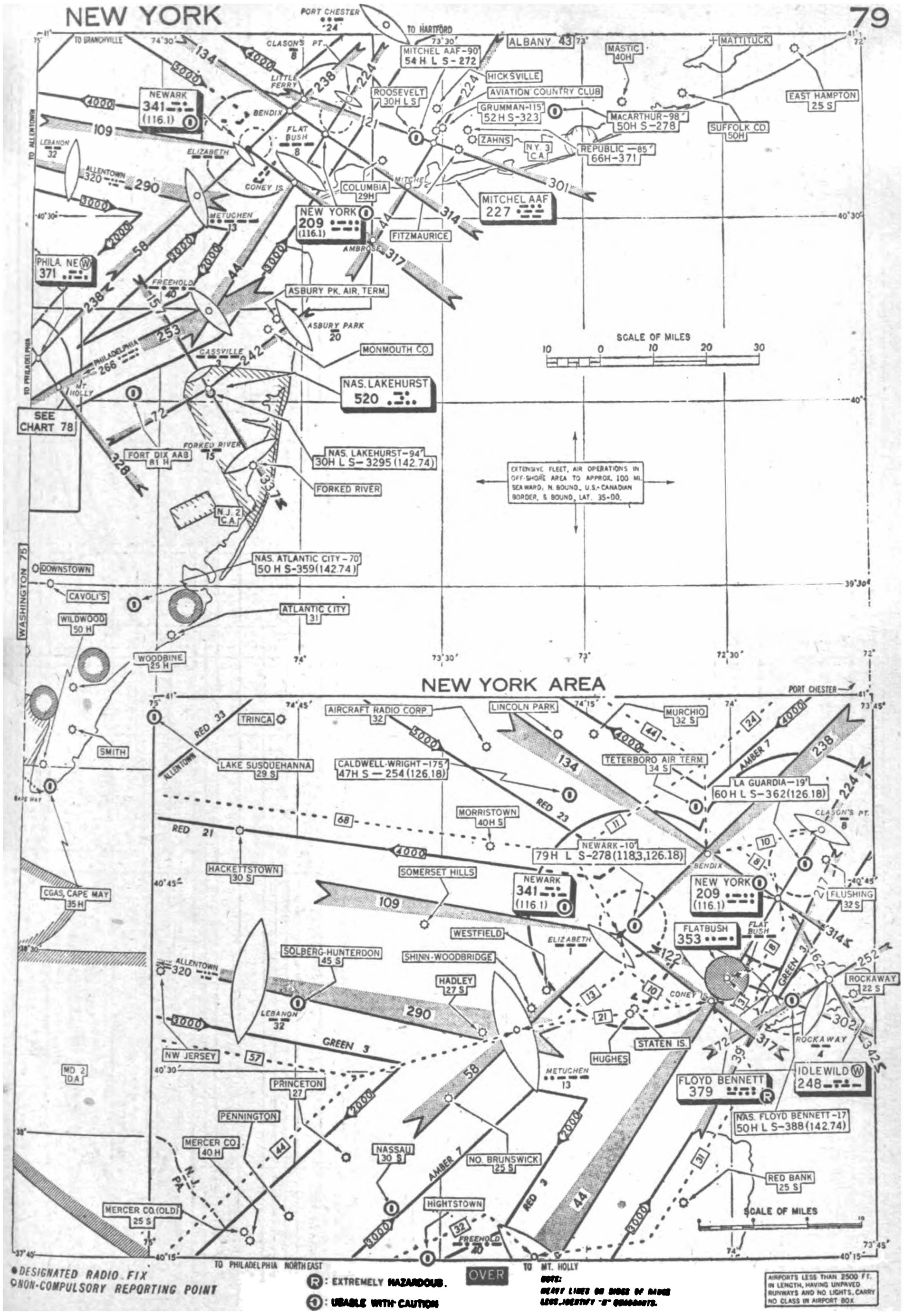
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX

OVER

NEW YORK



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS.

Ⓤ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" CORRIDORS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

RADIO — NEW JERSEY

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER. REMARKS
ASBURY PARK FM	(-)	FM, 62°, 20	Lakehurst NAS
ATLANTIC CITY NAS	359 (142.74)	CN	(3); 142.74 (7-1530 Mon.-Fri.)
CALDWELL-WRIGHT	254 (126.18)	CI	(4);126.18(8:30-sunset, Mon.-Sat. 9-sunset Sun.)
CASSVILLE FM(Navy)	(- - - -)	FM, 337°, 3.25	Lakehurst NAS
ELIZABETH LFM	(- - -)	LFM, 238°, 1.4	Newark
FORKED RIVER FM (Navy)	(- -)	FM, 157°, 15	Lakehurst NAS
FREEHOLD FM	(- - - -)	FM, 224°, 40	New York, N.Y.
LAKEHURST (Navy)	520 (NEL)	MRLZ	3105 (4495 on req)
Lakehurst NAS	3295(142.74)	CN, 157°, 0.7	(3), 142.74
LEBANON FM	(- -)	FM, 110°, 32	Allentown, Pa.
METUCHEN FM	(. - - -)	FM, 236°, 13	Newark
NEWARK	341(NK)(116.1)	SBRAZ-VDT	(4);131.9,126.18
Newark Airport	278 (126.18) (118.3)	AC, 58°, 0.9	(3);142.74(7-sunset)

NEW YORK

CLASON'S POINT LFM	(-)	LFM, 44°, 7.5	New York
FLATBUSH	353 (F)	FMK, 224°, 8.3	New York
FLATBUSH FM	(- - -)	FM, 224°, 8.3	New York
FLOYD BENNETT (New York)	379 (FB)	SBMRLZ-DT	(3)
Floyd Bennett Fld NAS	388 (142.74)	CN, 122°, L9	(3) (8-17)
GRUMMAN (Bethpage L. I.)	323	CI	(8-1630, Mon.-Fri.)
IDLEWILD	248 (NY)	SMRLW, 72°, 2.3	
LA GUARDIA (N.Y.)	362 (126.18)	CI (ILS), 44°, 3.4 (Appch Control)	(4), 116.1, 140.1, 126.18 AA, TWA, UAL freq
MacARTHUR FIELD (Islip)	278	CI	3105 (7-17 week days, ngt & Sun. if important)
MITCHEL (Hempstead)(Army)	227 (DWM)	SBMRAPZ-DT	(3)
→ Mitchel Field	272	CA (ILS), 301°, 3.2	(3),
NEW YORK	209 (LG) (116.1)	SBMRAPZ-VDTX	(4), 116.1
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
REPUBLIC FIELD (Farmingdale)	371	CI	(3) (days)
ROCKAWAY PARK LFM	(- -)	LFM, 122°, 5	Floyd Bennett

PENNSYLVANIA

PHILADELPHIA NORTHEAST	371 (NE)	MLWZ-DT	

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LA GUARDIA, NEW YORK	109.9		44°Mag	IM (.05)	MM (.81)	OM (3.40)	
					HMK 233 --- (.81)	OMK	
MITCHEL, NEW YORK	110.3	335	300°Mag	IM (.06)	MM ..... (.81)	OM -- (4.03)	
					HMK 257 -- (.81)	OMK 201 -- (4.03)	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW JERSEY

CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aero-Marine Terminal (Keyport)(NC)	1 NE;RR S	10	15	Bldg SW. Hwy S
Acft. Radio Corporation (Boonton)	2.6 N;riv S	550	32	Poles N,E. PRIVATE.
Asbury Park Air Terminal	4.5 W;rd N	100	21 S4	80 oct. 125' tank E.
Atlantic City	1.3 WSW;RR N	11	31 S2	350' tank E, lgtd. No fuel.
(N)Atlantic City NAS(N)	10 NW;RR NE	70	50h R1 L5 S4	91,100 oct. Lgts prior req.
Caldwell-Wright	2.4 N;riv N	175	47h R1 L1 S1	Rest'd factory oper
Cape May CGAS	2.5 ENE	13	35h	CLOSED.
Cavoli's(Richland)	1.5 W;RR N,E	100	20 S4	80 oct. Poleline NNE No sto.
(N)Clarke(Ocean City)	2.8 SW;RR SE	8	23	Naval tow target practice.
Coyle (Chatsworth)	6 ESE;hwy NE	190	18	(NC)
Downstown(Landisv'l)	1.8 WNW;RR S	120	23 S1	80 oct. Poleline N.
Forked River	1 ESE;riv S	12	18 S4	80 oct. Rnwy data not verified.
(A)Ft. Dix AAB (Wrightstown) (A)	1 SE	120	81h	INACTIVE.
Hackettstown	2 SSW;RR N	560	30 S2	73, 80 oct.
Hadley (New Brunswick)	4 N;RR N	100	27 S6	80 oct.
Hightstown & Air Svc.	1.3 SW;RR W	110	19 S6	80 oct.
(N)Lakehurst NAS (LTA)	1 NNW;riv N	94	38h R2 L5 S4	91, 100 oct. (N)
Lake Susquehanna (Blairstown)	2.3 WSW;RR S	380	28 S6	80 oct.
Lincoln Park	1.5 N;RR W	180	23 S1	80 oct. Poleline S.
Little Ferry	0.5 E;bridge N	5	40 S6	80 oct. Boat, ramp, tractor, (N)
Mellor-Howard (Ridgefield Park)	1 S	5	35 S4	80 oct. Ramp, all facs.
Mercer Co.(Trenton) (new)	5 NW;RR SE	211	40h	
Mercer Co.(Trenton) (old) (NC)	5.8 NW;RR E	200	25 S1	73,80,91 oct.
Monmouth Co.(Belmar)	5.5 W;rd E	180	30 S5	80 oct.
Morristown	3 E;RR N	187	40h L5 S4	80 oct. No sto.
Murchio (Paterson)	4.5 WNW;rd N	350	32 S4	80 oct. Trees N.
Nassau Arpk.(Clarksville)	1 NE;RR SE	80	30 S4	80 oct. Pwrline SSE
(A)NEWARK	3,5 SSE;RR E	10	79h R2 L5 S6	80,91,100 oct. JP-1. No sto. 2-way rdo req. FEE
North Brunswick	2 SW;RR E	120	25 S2	No fuel. Poles ENE,
Northwest Jersey (Clinton)	3.5 W,RR S	380	19	Poles N,S. ESE.
Ocean Co.(Adamston) (NC)	1 SW;riv N	14	21	Obsts sur fld.
Pennington	2 ESE;RR W	230	20 S6	80 oct. No sto. Pole line ESE.
Princeton	3 N;riv E	160	27	Poleline E,ESE.
Red Bank	1 S;RR E	80	25 S6	80,91 oct. Poleline W
Shinn-Woodbridge (Woodbridge)	3.9 NW;RR E	120	21 L S4	73,80 oct. Poleline SE.
Smith C.H.(Cape May)	2.2 NE;RR W	20	19	Pole line WNW.
Solberg-Hunterdon (Readington)	1 NNW;rd E	200	30 S6	80, 91 oct.
Somerset Hills (Basking Ridge)	1.6 SE;RR S	250	24 S6	80 oct. Pole line W.
Teterboro-Air Terminal (Bendix)	0.5 SW;RR NW	5	34 L4 S1	80 oct. No bndry lgts.
Trenton (NC)	6 NE;RR I SE	70	15	Rest'd to USFS.
Trinca (Andover)	2 WSW;RR E	600	24 S6	73 oct.
Westfield (Rahway)	2 W;lake N	100	24 S4	80 oct. No sto. Trees SW,W,N,S.
Wildwood	6 WNW;RR E	22	50h	Obsts S.
(P)Woodbine	2 SE	39	25h	Trees sur fld. At jct RRs.

AIRPORTS — NEW YORK

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bender-Brentwood (Brentwood) (NC)	1 ENE;RR N	85	10	
Columbia (Valley Stream)	1 SW;RR N	15	29h	
Davis Flight Strip (Bayport) (NC)	1.3 NNW;RR S	40	22	
Deer Park (NC)	0.8 ESE;RR N	75	10	Trees adj E. Pole line W.
Donovan Hughes (Greenridge)	1 N;crks S,W	10	17 S1	80 oct.
East Hampton	2.5 W;RR S	40	25 S4	80 oct. No sto.
Fitzmaurice (Massapequa)	1.5 ENE;RR S	36	14 S6	80 oct. No sto. Trees N,S.
(N)Floyd Bennett NAS (New York) (N)	11.8 SSE	17	50h R2 L6 S4	91,100 oct. No sto. No bcn.
Flushing	1.5 NNW;pkwy E	4	32 L S4	80 oct. Pole line W, SW. Portable rwy lgts prior req
Grumman (Bethpage)	0.5 W;RR NE	115	54h R1 S5	91, 100 oct. Poles SW, SE.
Hicksville Airpark	2.4 N;RR E	190	17 S4	80 oct.
(A,N) LA GUARDIA (New York)	5 E;riv N	19	60h R3 L6 S1	73,100 oct. Rdo rcv req. Rez.
(P)MacArthur (Islip)	8 NE;RRs N,S	98	50h R1 L5 S1	91 oct. All lgts prior req. Rdo req
Mastic Flight Strip	2.6 NW	66	40h	
Mattituck	1.5 E;bay S	12	25 S4	80 oct. Poles N.
(A)Mitchel(Hempstead)(A)	0.5 NE;RR N	90	54h R3 L6 S6	73,91,100 oct. JP-1. Foreign Clearing Station.
Nassau (Hempstead)	4.5 E;hwy N	80	21	
Republic (Farmingdale)	1.3 ENE;RR N	85	66h R1 L5	NE blocked. Closed ngts. trans. PRIV.
Richmond Co.(Travis) (NC)	0.5 SW,riv W	10	24	160' chimney SW.
Rockaway (Edgemere)	1 WSW	20	22 S4	80 oct. Pwr line S, SE.
Roosevelt (Mineola)	1.6 ESE;RR N	90	30h L3 S5	80,91,100 oct. Wires NE.
Sayville (NC)	0.8 N	25	15	Trees sur fld.
Staten Island (New Springville)	1 S;rd W	40	22 S4	80 oct. Poleline SW
Suffolk Co. (Westhampton Beach)	2.6 N	69	50h	
Zahns(Amityville)	2.5 NNE;RR NE	80	22 S6	80 oct. Pole line SW.

R-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X I V)(NC)-Not charted. → NEW OR REVISED DATA.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BANNING FM	(-)	FM, 76°, 25	Riverside
CASTAIC FM	(- - - -)	FM, 322°, 41	Los Angeles
CORONADO FM	(- -)	FM, 139°, 10	San Diego
DAGGETT(San Bernardino Co.	365 (DQ)(116.1)	SBRAZ-VDT,149°, 0	(4); 116.1
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
FONTANA FM	(- - - -)	FM,324°, 16.5	Riverside
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LA MESA FM	(-)	FM, 75°, 13.2	San Diego
LEBEC FM	(- -)	FM, 141°, 42	Bakersfield
LINDBERGH FLD (San Diego)	278 (126.18) (118.3)	AC	(4);126.18,118.3,131.9
LONG BEACH	233(HB)(116.1)	SBMRLZ-VDT,298°,3.9	(3);116.1
LOS ANGELES	260 (LA)	SBRAZ-DTX,244°, 3.8	(4)
MARCH FIELD (Riverside)	201 (126.18)	CA (ILS)	(3)
MIRAMAR MCAS (San Diego)	3295(142.74)	CN	(3); 142.74 (GCA)
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1
MUROC (Army)	350 (DUC)	MRLI	
Muroc AAF	219 (126.18)	CA; 64°, 2.2	(3); 126.18
NEWHALL (Int.)	209 (NH)(116.1)	BMRL-VDT,317°,0.1	(4); 116.1
OCEANSIDE	326 (OC)	MHT	(4)
OCEANSIDE FM	(- - - -)	FM, 325°, 34	San Diego
PALMDALE	322 (PA)(116.1)	SBMRAZ-VDT,216°,2.5	(4); 116.1
REAM NAAS (San Ysidro)	3295(142.74)	CN	3105,142.74 (745-1630 Mon.-Fri.)
RIVERSIDE (March Fld)	388 (RV)(116.1)	SBMRAZ-VDT,128°,2.9	(4); 116.1
SAN BERNARDINO AAF	272 (126.18)	CA	(3); 126.18
SAN CLEMENTE ISLAND (Navy)	359 (NGA)	MRLZ	3105
San Clemente Island NAAS	3295(142.74)	CN, 305°, 1.6	3105;4495;142.74
SAN DIEGO (Lindbergh Fld)	224 (SQ)(116.1)	SBRAZ-VDT,139°,2.3	(3); 116.1
San Diego NAS	266 (142.74)	CN	(3);126.18,142.74
San Diego NAS (Seapl.)	2870	CN	
SAN NICOLAS ISLAND FM(Navy)	(- - - -)	FM, 275°, 59	San Clemente Island
TRONA (Int.)	323 (EW)	SBMRAZ-DT,349°,11	(4) Not manned cont.
VICTORVILLE AAF	278 (126.18)	CA	(3); 126.18

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
MARCH, CALIF.	109.9		229° Mag.	IM (.19)	MM ..... (.85)	OM - - (3.99)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

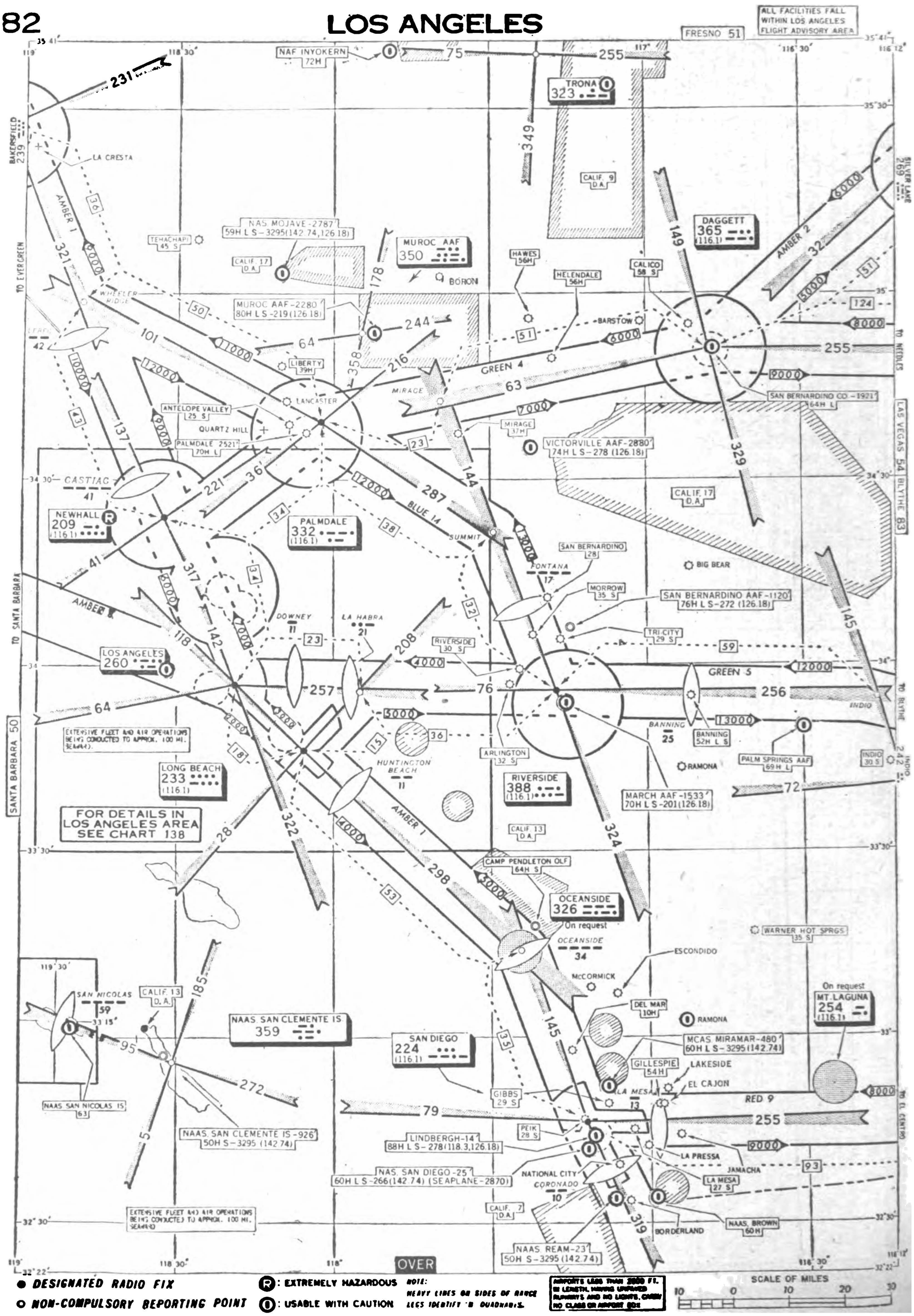
AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Antelope Valley (Lancaster)	3.4 S;hwy E	2470	25 S2	Ltd 73 oct.
Arlington (Riverside)	4.5 WSW;RR W	765	32 S6	80 oct. No sto.
Bakersfield Kern Co.#2 (Bakersfield) (NC)	6 E;RR, hwy S	660	21	
(P) Banning	1 SE;RR N	2190	52h L5 S5	80,91 oct. No sto.
Barnes (Rosamond)(NC)	12 E;rd N	2300	38	
Barstow	1.8 N;hwy S	2150	24 S6	80 oct.
Big Bear City	0.5 NW;hwy S	6850	24	
Borderland(San Ysidro)	1.5 WNW;RR W	80	19 S6	80,91 oct. Pole line SE.
Boron	0.5 NE;RR S	2550	21 S1	80 oct.Poles E. Data not verified
(N) Brown NAAS (Otay)(N)	5.5 ESE	523	60h	INACTIVE.
Buffalo Springs (Avalon)	7 NW	1560	35	On Catalina Island. PRIVATE.(NC)
Calico (Yermo)	2.3 WNW;hwy S	1921	58 S1	73 oct. Mtns N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. ➔ NEW OR REVISED DATA

CALIFORNIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Camp Pendleton OLF (Oceanside)(N)	6 NNE;RR SE	75	64h L S1	NATS.
(N) Castle OLF (San Diego)	On NW end San Clemente Isl.	163	20	(NC)(N)
(N) Clark's Dry Lake OLF (San Diego)(N)(NC)	65 NE.	450	50	On W portion Dry Lake.
Del Mar	1.1 NNE	11	10h	
Escondido	1 W;RR,hwy N		19 S4	73, 91 oct.
Gibbs (San Diego)	7 NNE;hwy W	405	29 S4	87 oct.No sto. Poles E. NE.
Gillespie (Santee)	1 SSW;rd E	385	54h	Towers W.
Hawes (Victorville)	27.5 N;RR N	2319	56h	
Helendale (Victorville)	20 N	2508	56h	
(N) Inyokern NAF (N)	0.5 WNW;RR E	2455	72h	INACTIVE.
Jamacha (La Mesa)	6.8 ESE;riv N	520	24 S1	80 oct.
La Cresta(Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data not verified.
Lakeside	1.3 W;hwy S	400	20 S1	80 oct.Pole line NE,SW.
La Mesa	2 WSW;hwy N	500	27 S4	80 oct.Pole line SSE.
Lancaster	0.5 NW;RR E	2330	22 S4	73 oct.No sto.Poles E,S.
La Pressa (La Mesa)	4 S;hwy W	275	19 S4	80 oct.
Liberty (Rossmond)	4.1 S;RR E	2300	39h	
(A) LINDBERGH (San Diego)	2 W	14	88h R2 L5 S6	80,91 oct. Rdo req. ARPT OF ENTRY
(A) March (Riverside)(A)	8.8 SE;RR SSW	1533	70h R3 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEARING STATION.
McCormick (San Marcos)	1.5 WSW;RR NE	530	22 S4	80,91 oct.
Mirage (Victorville)	18 WNW;rd S	2865	37h	
(N) Miramar MCAS (San Diego)	9.5 N	480	60h R1 L5 S4	91,100 oct. No bcn. (N)
(N) Miramar OLF (San Diego)	1 N Miramar	470	25	Hwy SE. (N) (NC)
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Morrow (Rialto)	1.8 S;RR N	1100	35 S5	80,91 oct.Pwr line W.
(A) Muroc AAF (A)	2 S;dry lk N	2280	70h R2 L5 S6	73,91,100 oct.JP-1.No sto.CLOSED.
National City	1.1 SSE;RR W	10	22 S4	80 oct.Poles,stack NW.
(P) Palmdale	3 NE;RR W	2521	70h R1 L5 S2	91,100 oct.
Peik (San Diego)	4.8 WNW	20	28 S4	80 oct.No sto.Twr SE.
Quartz Hill (Lancaster)	6.5 SW	2450	29 S1	80,91 oct.Data not verified.
Ramona	0.6 WNW;rd NE	1440	15 S1	80 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
(N) Ream NAAS (San Ysidro)	3.2 W	23	50h R1 L S4	91,100 oct. No sto.(N)
Riverside	2.3 WNW;riv SE	760	30 S4	80 oct.No sto.
(N) Rosedale OLF (San Diego)	6 N;RR W	400	15	(N) (NC)
Ryan (Hemet) (NC)	2.5 WSW;RR SE	1502	23	
Ryan #1 (Hemet) (NC)	4.2 NW;hwy E	1500	22	
San Bernardino	4.7 NNW;RR W	1425	28	Pole line E.
(A) San Bernardino AAF(A)	3.5 ESE;RR SW	1120	76h R1 L5 S6	62,73,91,100 oct. JP-1.
San Bernardino Co. (Daggett)	5 E;RR S	1921	64h R1 L3	
(N) San Clemente Island NAAS (N)	8 S of N end	926	50h R2 L S4	91,100 oct.B-2, obst lgts.
(N) San Diego NAS (N)	4.5 WSW	25	60h R1 L5 S6	91,100 oct. NAFC
(N) San Nicolas Island NAAS (N)	On E end Isl.	502	63	INACTIVE.
Tehachapi	1 N;RR S	3952	45 L S2	73,91 oct.Pole line SE.
Tri-City (San Bernardino)	3.3 SSE;RR S	1015	29 S4	91,80 oct.Poles SE, W.
(A) Victorville AAF (A)	6 NW;RR E	2880	74h R1 L5 S5	100 oct.
Warner Hot Springs	3 W;hwy NE	3140	35 S1	Ltd 80 oct. Trees E. S.
El Cajon	2.5 N;hwy W	450	23 S6	80,91 oct.No sto.

LOS ANGELES



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'B' QUADRANTS.

AIRPORTS LESS THAN 3000 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, OMITTED NO CLASS OR AIRPORT USE

BLYTHE

ALL FACILITIES IN LOS ANGELES FLIGHT ADVISORY AREA

LAS VEGAS 54

TWENTY-NINE PALMS 40H

CALIF. 18 D.A.

RICE 55H

PARKER 32

ECHEVARRIA 40H

AGUILA 45H

PALM SPRINGS AAF 69H L

DESERT CENTER 38 L S

DESERT CENTER 50H

CALIF ARIZ

INDIO 34 S

GARY-392' 29H

CONNER 38

TONOPAH 34 L

PERRYVILLE 29

INDIO 242 (116.1)

THERMAL 50 H

SHAVERS SUMMIT 60H

HARVEY

HERON 27 S

SALOME 41 L

GILA BEND 257 (116.1)

SALTON SEA 40

BLYTHE 70H

BLYTHE 251 (116.1)

CALIF. 4 D.A.

CALIPATRIA

BRAWLEY 30 S

O'CONNELL

LAGUNA 50H

IMPERIAL CO 32 S

CALIF. 12 D.A.

RED 9

GILA BEND NO 5 37H

DATELAN 66H

MARSH 40 S

GILA BEND AAF-BIO 62H L

EL CENTRO 212 (116.1)

MT. LAGUNA 254 (116.1)

HOLTVILLE 60H L S

YUMA 230 (116.1)

GILA BEND NO 6 37H

GILA BEND NO 4 37H

CALEXICO 28 S

SOMERTON 30 S

YUMA AAF-213' 65H

AJO AAF 64H L S

JACUMBA HOT SPRINGS OLF 25

ARIZ MEXICO

TO CASA GRANDE

PHOENIX 326

PHOENIX 86

LOS ANGELES 83

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS. CARRY

E: EXTREMELY HAZARDOUS

SCALE OF MILES
0 25 50

BLYTHE

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GILA BEND (AAF)	257 (UQ)(116.1)	SBMRAZ-VDT, 166°,4	(4); 116.1
PERRYVILLE FM	(- - -)	FM, 261°, 29.8	Phoenix
YUMA (AAF)	230 (UP)(116.1)	SBMRAZ-VDT,165°,5.8	(4); 116.1
CALIFORNIA			
BLYTHE	251 (YH)(116.1)	SBMRAZ-VDT,265°,4.1	(4); 116.1
EL CENTRO	212(MB)(116.1)	SBMRLZ-VDT	(4);116.1
El Centro NAS	317 (142.74)	CN, 320°, 3.5	(4);142.74 (7-18, & on 30 min. notice)
INDIO	242 (IN)(116.1)	BMRLZ-VDT	(3); 116.1
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1

S-Simultaneous Range and Voice. W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs., (4)-3105.4495.6210.3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aguila	1.5 NNW	2000	45h	
(A) Ajo AAF (A)	6 N;RR NE	1434	64h L3 S4	91, 100 oct.
Conner (Quartzsite)	0.3 SSW; hwy N	850	38	150' hill S.
Datelan	4 W Aztec; RR S	450	66h	
Echevarria (Wickenburg)	14.8 WSW; RR N	2380	40h	
(A) Gila Bend AAF (A)	4 S;hwy W	850	62h R1 L5	
(A) Gila Bend #4 (A)	18 SSW	1000	37h	INACTIVE.
(A) Gila Bend #5 (A)	15.3 SW	800	37h	INAVTIVE.
(A) Gila Bend #6 (A)	7.7 WSW	800	37h	INACTIVE.
Laguna Landing Strip (Laguna)	6.5 NE	500	50h	
Marsh (Yuma)	0.7 E;RR W	130	40 S1	80 oct.
Parker	1.4 ENE;RR W,S	430	32 S2	No fuel, Fld rough.
Salome (NC)	0.7 S;hwy N	1876	45	15' poles NW.
★ Salome Int, 27B, LA-PH	13.5 S	1354	41 L3	Mtns 7 mi E, 3 mi W.
Sky Ranch (Wickenburg) (NC)	0.8 N;riv E	2000	24	Trees SSE.
Smiley (Wellton)(NC)	13 E;RR S	250	26	Poles SW, NE.
Somerton	3 ENE; RR W	250	30 S3	80 oct. No sto.
★ Tonopah Int, 31 LA-PH	5 NNE Wintersburg	1102	34 L2	
Wellton	0.5 NW; RR S	275	24 S2	73,80 oct.
(A) Yuma AAF (A)	4.5 SSE;RR N	213	65h R1	INACTIVE.
CALIFORNIA				
Blythe	7 W;hwy S	327	79h R1	
(N) Borego Hotel OLP (San Diego)(N)(NC)	65 ENE	400	25	
Brawley	1.3 NE; RR W	120	30 S6	80 oct. Poles SE,E.
Calexico	1.2 W;riv N	0	28 S6	80,91 oct. Data not verified.
Calipatria	0.5 W;hwy adj S,rd E	180	49 S3	No fuel or sto, 35' poles all zones.
(N) Clark's Dry Lake OLP (San Diego)(N)	65 NE	450	50	On W portion Dry Lake (NC)
(N) Coyote Wells OLP-North (San Diego)	13 NNE	300	26	(NC) (N)
(N) Coyote Wells OLP-South (San Diego)	3 E	300	25	(NC) (N)
Desert Center	2.5 NE;rd NW	555	50h	
★ Desert Center Int, 17, LA-PH	1 ENE; hwy S, W	894	38 L3 S1	80 oct. (truck)
(N) EL CENTRO NAS (N)	7 WNW;RR S	-43	69h R2 L5 S4	91,100 oct. No sto.
Gary (Blythe)	5 NNW;RR N	392	29h	
Harvey (Blythe)	13.5 W; hwy S	565	23 S4	73 oct. No sto.
Heron (Blythe)	1.2 E;riv E	265	27 S1	73 oct. Poles N.
Holtville	7.5 NE; canal W	58	60h	
Imperial County (Imperial)	1 S; hwy E	-69	32 L4 S6	80,91 oct. Poles SE, No ben. Lgts prior req.
Indio	0.8 NNE;RR SW	-12	34 S4	80 oct. No sto. Pwr line W.
(N) Jacumba Hot Springs OLP (N)	1 E; hwy N	2900	25	
(N) Ocotillo OLP (San Diego)(N) (NC)	37 WNW of Brawley	160	30	Creek N.
O'Connell Brothers (Brawley)	0.3 S;hwy W		17 S6	80 oct. Data not verified.
(N) PALM SPRINGS	2.5 E; RR NE	448	69h L5	
Rice	2.2 ESE; RR N	832	55h	
Salton Sea	NW Westmoreland	-152	40	
Shavers Summit (Indio)	29.5 ESE; hwy S	1690	60h	Mtns N,S,W.
Thermal	1.8 SW; hwy W	-117	50h	
Twentynine Palms	4.8 N	1768	40h	

h-hard surfaced runways R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. ⟶ NEW OR REVISED DATA

PHOENIX
ARIZONA

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COCHISE (Int)	272(CJ)(116.1)	SBMRAZ-VDT,259°,2.3	(4); 116.1
DAVIS MONTHAN FIELD (Tucson)	396 (126.18) (118.3)	C	(3); 116.1,126.18,118.3,131.9
HILLTOP FM	(-)	FM, 79°, 34.4	Cochise
LITCHFIELD PARK NAP	290 (142.74)	CN	(3); 142.74 (0730 to sunset)
LUKE (Phoenix)(Army)	219(DRM)(118.5)	BMRLZ	(3)
Luke Field	396 (126.18)	CA, 163°,8.2	(3); 126.18
MESA FM	(-)	FM, 243°, 18	Phoenix
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
PHOENIX (Sky Harbor Airport)	326(PH)(116.1)	SBMRAZ-VDT,261°,2.3	(4); 116.1
RED ROCK FM	(- - - -)	FM, 307°,42.8	Tucson
SKY HARBOR AIRPORT (Phoenix)	278 (126.18) (118.6)	C	(4); 116.1,140.1,126.18,118.5,131.9
TUCSON	338(TZ)(116.1)	SBRAZ-VDT	(3); 116.1
VAIL FM	(- -)	FM, 106°, 1.5	Tucson
WILLIAMS FLD (Chandler)	201 (126.18)	CA	(3);126.18
		NEW MEXICO	
RODEO (Int)	254(RH)(116.1)	BMRLZ-VDT,24°, 0	(4); 116.1

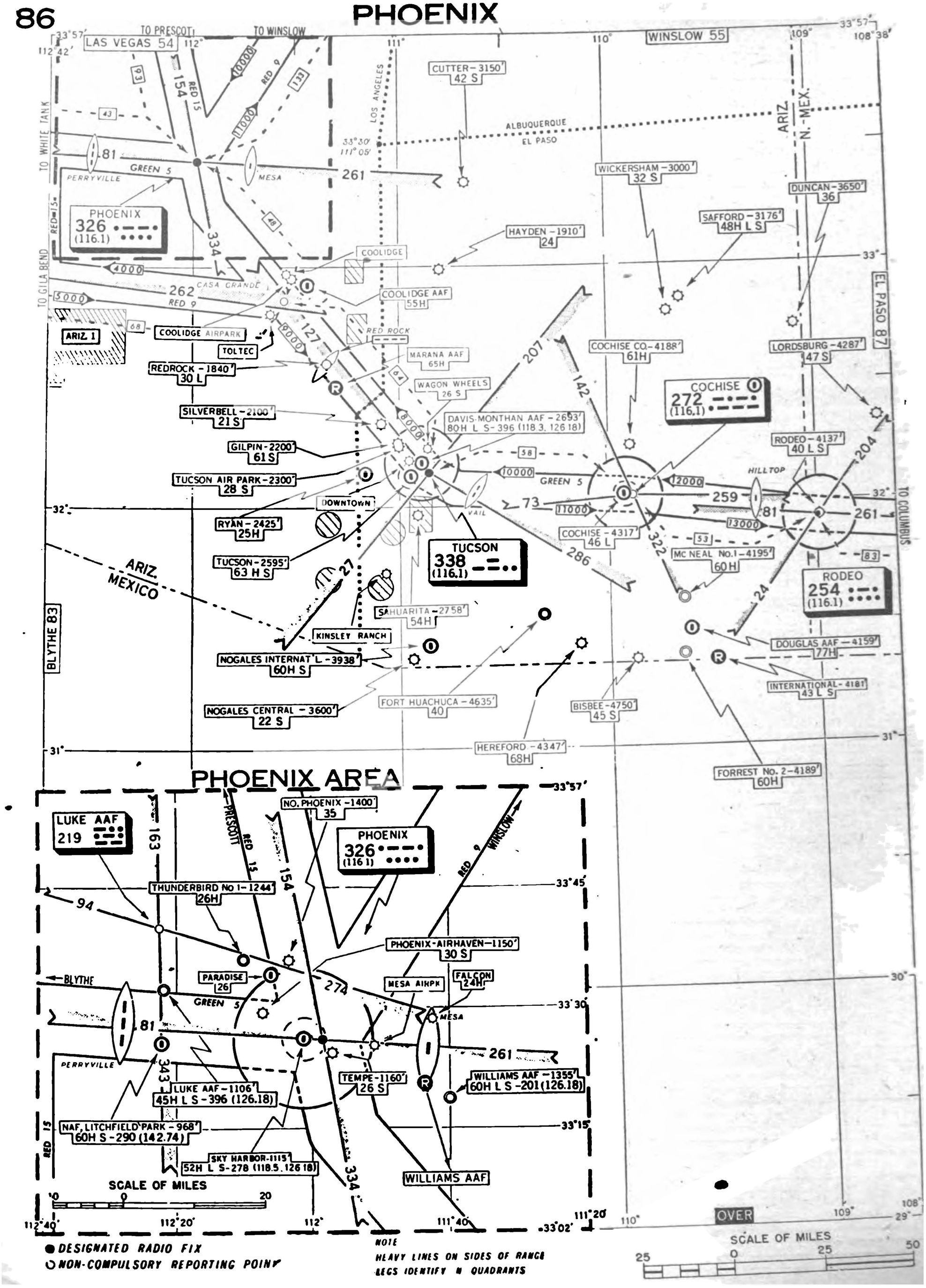
S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS
ARIZONA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Air-Topia (Phoenix)(NC)	6.2 SW;RR N	1050	26	
Bisbee	6.4 SSE;RR W	4750	45 L S4	80 oct.Poles W.Port. rnwy lgts prior req.
Bowie (NC)	1.9 W;RR N	3800	20	Pole line NE,W.
Clifton-Greenlee (Clifton)(NC)	8.7 SSE;hwy W	3800	35	
★ Cochise Int,T-3,PH-EO	6 S;hwy E	4317	46 R1 L3	
(P) Cochise County (Willcox)	3.8 W;road N	4188	61h	
Coolidge Airpark	1.7 S;RR E	1450	34	
(A) " AAF (A)	6.4 SE	1587	55h	INACTIVE.
" Flying Field	1.5 WSW;RR E	1450	21 S1	80 oct.Pole line E.
Cutter (Globe)	6.8 ESE;RR N	3150	42 S4	80 oct.
(A) DAVIS-MONTHAN (Tucson)(A)	5 SE;RR SW	2693	80h R2 L5 S6	73-100 oct.JP-1.
(A) Douglas AAP (A)	8.5 NNW	4159	77h	INACTIVE.Twrs E.
Duncan	1 NE	3650	36	Pole line W.Race track W.
Falcon (Mesa) (NC)	7.3 NE;hwy S	1332	24h	
Florence (NC)	5 SSE;hwy E	1500	45	
(A) Forrest #2 (Douglas)(A)	6.4 WNW	4189	60h	INACTIVE.
Ft. Apache (White River)(NC)	2.6 SSW;riv S	5200	34	Trees S.
(A) Fort Huachuca (A)	4 E;RR NW	4635	40	
Gilpin (Tucson)	4.2 NW;RR W	2200	61 L5 S6	80,91 oct.Poles E,SW.
Hayden	1.2 S;hwy E	1910	24	
Hereford	2.5 WSW;rd N	4347	68h	Twr SE.
INTERNATIONAL (Douglas)	3.3 E;hwy N	4181	43 L4 S4	80,91 oct.Fld lgts prior req.ARPT OF ENTRY.
Litchfield (Litchfield Park)(NC)	0.5 NW;canal S	1062	23	Trees SW.
(N) Litchfield Park NAP (N)	4.8 S;riv E	968	60h R1 S1	100 oct.
(A) Luke (Phoenix)(A)	18 WNW	1106	45M R2 L5 S6	91,100 oct.JP-1.
(A) McNeal #1 (Douglas)(A)	19 NNW	4195	60h	INACTIVE.
(A) Marana AAP (A)	6 NW;hwy NE	1891	65h	CLOSED.
Mesa Airpark	1.4 W;RR SE	1238	27 S1	80 oct.Pole line E.
Nogales Central	3 N;RR E	3600	22 S6	80 oct.No storage.
(P) " International	8 NE;hwy N	3938	60h L5 S4	73,80,91 oct.All lgts prior req.ARPT OF ENTRY.
North Phoenix (Cactus)	0.5 E;hwy W	1400	35	
Paradise (Glendale)	5 ENE;canal S	1256	26 S2	No fuel.Trees S.
Phoenix Airhaven	3.9 WNW;RR W	1150	30 S6	80 oct.No sto.Poles SW,NE.
★ Redrock Int,7B,PH-EO	2.3 NW;RR E	1840	30 L4	
Ryan (Tucson)	13 WSW; road S	2425	25h	Low dike S & E corner.
Safford	4.5 ENE;riv S	3176	48h L5 S5	80 oct.
Sahuarita Flight Strip	2.2 E;hwy W	2758	54h	
Sells (NC)	2 NW;road E	2380	30	
Silverbell (Tucson)	11.2 NW;RR E	2100	21 S1	80 oct.
SKY HARBOR (Phoenix)	2.8 ESE;RR N	1115	52h R2 L5 S6	73,80,91,100 oct.
Superior (NC)	2 WSW;hwy N	2600	15	Pole line NE
Tempe	1.2 SW;RR E	1160	26 S6	80 oct.Poles E.trees W.
Three Point (Casa Grande)(NC)	1.5 NNW;RR SW	1400	32	
Thunderbird #1 (Phoenix)	12 NW	1244	26h	
Thunderbird #2 (Phoenix)(NC)	13 NE;rd W	1500	25	Allway: 2500 x 2000'.
Toltec	0.4 NNW;RR W	1500	26	Poles SSW,SW.
(P) Tucson	7 S;RR W	2595	63h S6	80,91 oct.
" Airpark	3.1 NW;RR E	2300	28 S1	Ltd 80 oct.
Wagon Wheels Ranch (Tucson)	5.5 ENE	2200	26 S6	80 oct.No sto.Poles S,SE.
→ Wickersham (Safford)	2.5 S;RR NE	3000	32 S6	80,91 oct.
Willcox (NC)	0.9 WNW;hwy E	4186	36	75' trees SE;bldgs NE.
(A) Williams (Chandler)(A)	10 E	1355	60h R1 L5 S6	73,91,100 oct.JP-1.
Downtown (Tucson)	1.4 S;RR SW	2400	34 S2	80,91 oct.Poles N.
Kinsley Ranch (Amado)	1.6 NNW;riv,RR E	3100	31	
Mesa (NC)	1.8 NNW;hwy E	1100	18	Pwr line E,W;bldgs E;canal embankment W.
		NEW MEXICO		
Lordsburg	1 SE;RR N	4287	47 S1	73 oct.
★ Rodeo Int,Z6A,PH-EO	7.3 NNE;RR SE	4137	40 R1 L3 S1	Ltd 73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

PHOENIX



PHOENIX AREA

● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE

HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS

OVER

EL PASO

ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA

WINSLOW 55 | ALBUQUERQUE 58

TO ALBUQUERQUE

ALBUQUERQUE
EL PASO

ENGLE
344
(116.1)

HOT SPRINGS

78

258

ENGLE-4842'
45 L

N.M. 2
D.A.

ALAMOGORDO AAF
221

237

57

ALAMOGORDO AAF-4092'
84H L S-272 (126.18)

HURLEY-5748'
33 S

WHITEHILL

PHOENIX 86

ROSWELL 90

AMBER 3

LAS CRUCES-4538'
39 L

TEX. 3

STATE COLLEGE-3800'
30 S

DEMING NO. 2-4440'
60H

DEMING AAF-4314'
81H

DEMING-4300'
31 S

DEMING NO. 1-4240'
60H

LAS CRUCES MUN.-4426'
75 H

VALLEY-3825'
34 S

BIGGS AAF-3937'
96H L S-396(126.18)

COLUMBUS
284
(116.1)

N. MEX.
TEX.

EL PASO
242
(116.1)

GREEN 5

82

258

77

HARRINGTON RANCH

HUECO MT.

257

HACHITA-4498'
38 L

COLUMBUS-4024'
42 L S

MOUNT RILEY-4106'
36 L

JUNDT-3709'
32 S

EL PASO MUN.-3936'
70 H L S-278(118.7,126.18)

RED 51

FABENS-3750'
24 S

TEXAS (S OF 30°39', W OF 100°30')

MARFA MUN. (NEW)
53H

STARNS-4481'
42 S

ARAGON-4880'
60H

TEX. 23
D.A.

RYAN No. 3-4750'
60H

MARATHON

DRYDEN-2300'
45H L

MARFA AAF-4885'
75 H

MARFA MUN.
44 S

ALLISON RANCH-5100'
49 S

SOUTH No. 1-4825'
60H

VAL VERDE CO.-1094'
49H

DEL RIO-1050'
30 S

LAUGHLIN AAF-1069'
67 H

JOHNSON RANCH-2092'
37

N. MEX.
MEXICO

TEX.
MEXICO

SCALE OF MILES
10 0 10 20 30 40 50

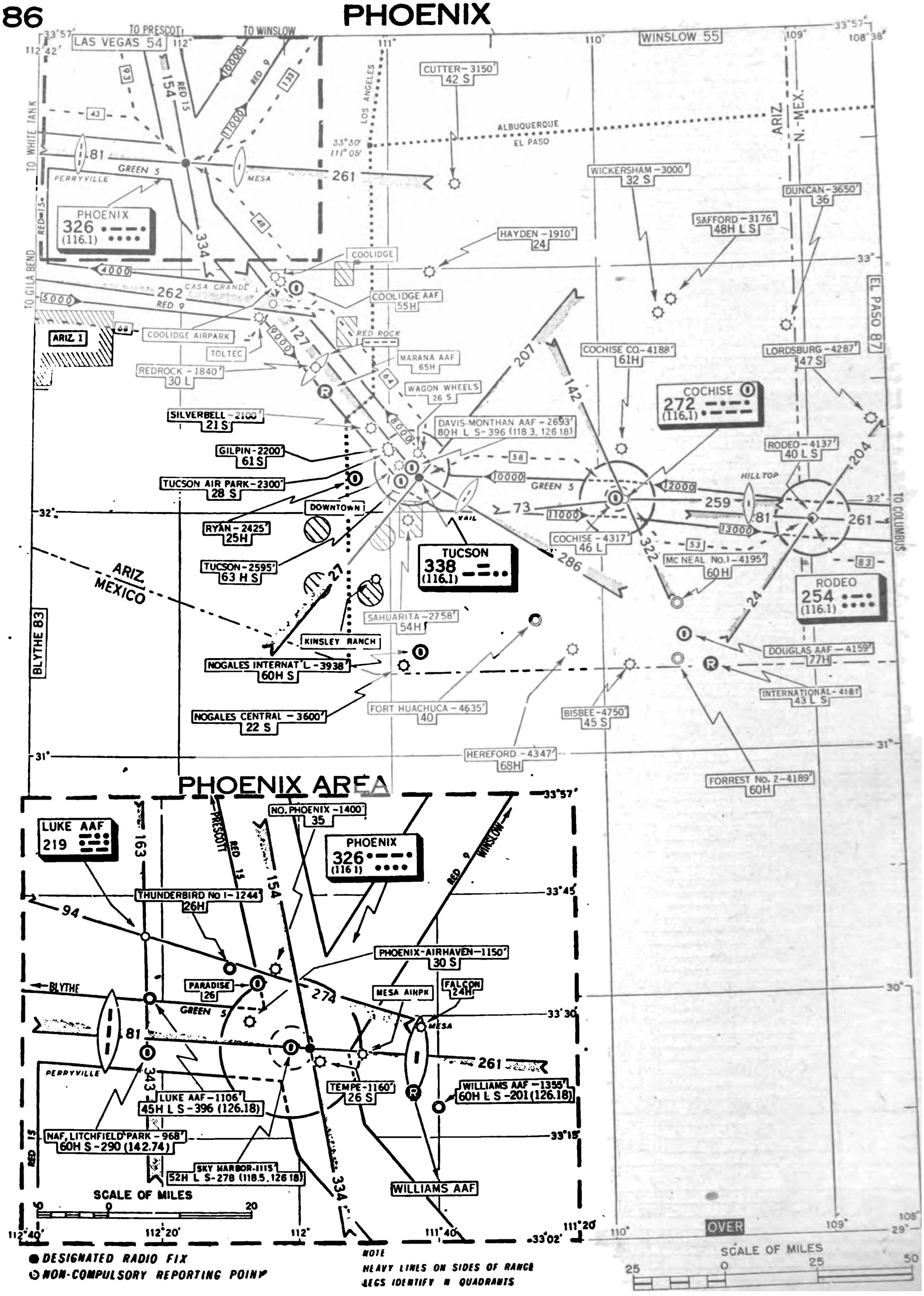
SCALE OF MILES
10 0 10 20 30

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF AIRWAYS INDICATE MINIMUM "E" BOUNDARIES.

OVER

PHOENIX

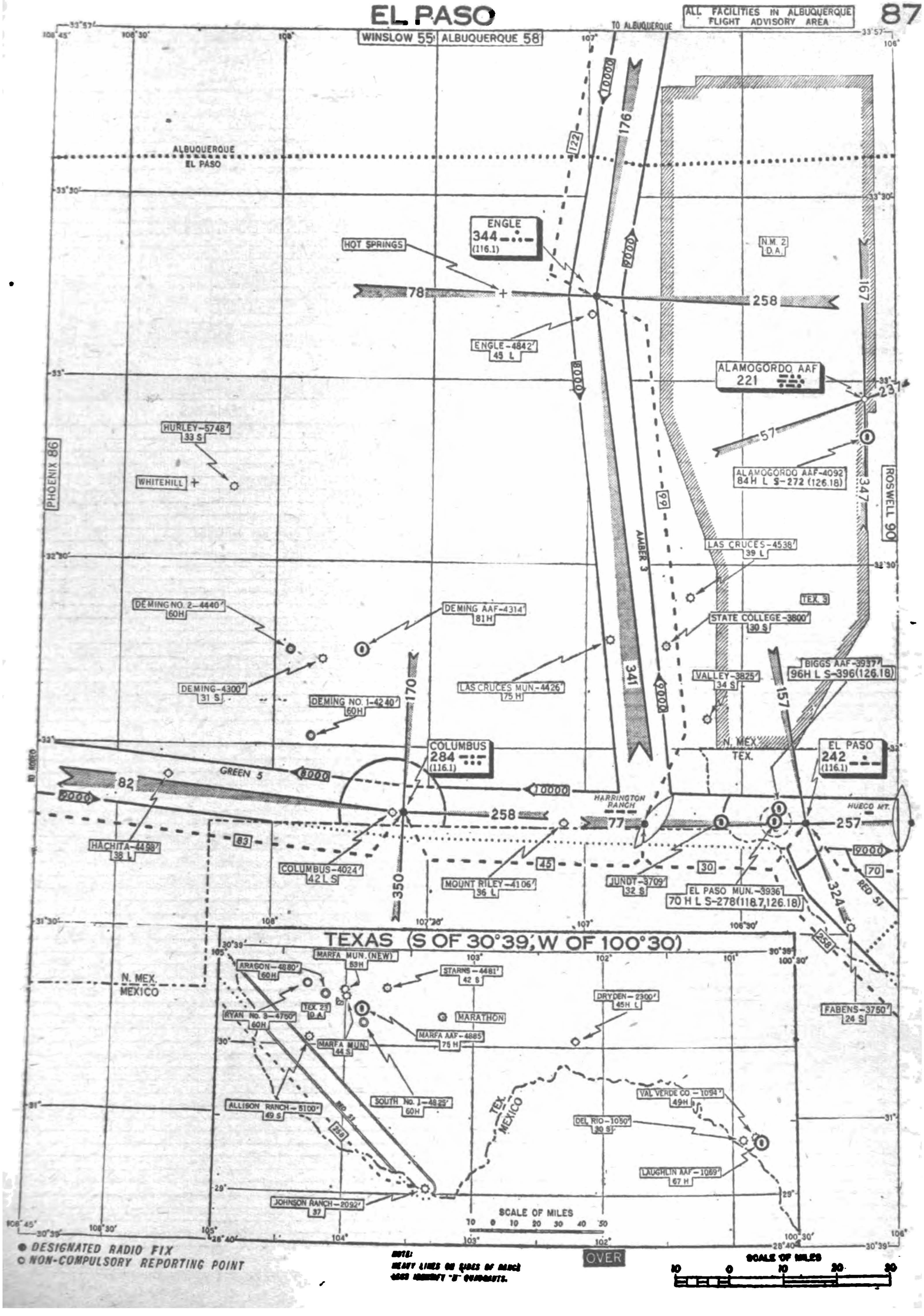


PHOENIX AREA

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY IN QUADRANTS

EL PASO


WINSLOW 55
ALBUQUERQUE 58
ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA
TO ALBUQUERQUE
ALBUQUERQUE
EL PASO
ENGLE 344 (116.1)
HOT SPRINGS
ENGLE-4842' 45 L
HURLEY-5748' 33 S
WHITEHILL
PHOENIX 86
ALAMOGORDO AAF 221
ALAMOGORDO AAF-4092' 84H L S-272 (126.18)
ROSWELL 90
AMBER 3
LAS CRUCES-4538' 39 L
TEX. 3
STATE COLLEGE-3800' 30 S
BIGGS AAF-3937' 96H L S-396(126.18)
VALLEY-3825' 34 S
DEMING NO. 2-4440' 60H
DEMING AAF-4314' 81H
DEMING-4300' 31 S
DEMING NO. 1-4240' 60H
LAS CRUCES MUN.-4426' 75 H
COLUMBUS 284 (116.1)
EL PASO 242 (116.1)
N. MEX.
TEX.
HARRINGTON RANCH
HUECO MT.
HACHITA-4458' 38 L
COLUMBUS-4024' 42 L S
MOUNT RILEY-4106' 36 L
JUNDT-3709' 32 S
EL PASO MUN.-3936' 70 H L S-278(118.7,126.18)
RED 51
FABENS-3750' 24 S
TEXAS (S OF 30°39', W OF 100°30')
MARFA MUN. (NEW) 53H
ARAGON-4880' 60H
STARNS-4481' 42 S
DRYDEN-2300' 45H L
MARATHON
RYAN NO. 3-4750' 60H
TEX. 23 10 A
MARFA AAF-4885' 75 H
MARFA MUN. 44 S
ALLISON RANCH-5100' 49 S
SOUTH NO. 1-4825' 60H
VAL VERDE CO-1094' 49H
DEL RIO-1050' 30 SF
LAUGHLIN AAF-1069' 67 H
JOHNSON RANCH-2092' 37
N. MEX.
MEXICO
TEX.
SCALE OF MILES
10 0 10 20 30 40 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF MAGS ARE SEGMENT "B" BOUNDARYS.
OVER
SCALE OF MILES
10 0 10 20 30

EL PASO

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMOGORDO (Army)	221 (DGR)	BMRLZ	(3),4220; 126.18
Alamogordo AAF	272 (126.18)	CA(ILS): 167°,6.5	(3);126.18 (730-1930 Mon - Fri (Sat & Sun 730-1630
COLUMBUS (Int.)	284 (ES)(116.1)	SBRAZ-VDT:262°,1.9	(4); 116.1
ENGLE (Int.)	344(EX)(116.1)	SBRAZ-VDT:176°,2.9	(4); 116.1
HARRINGTON RANCH PM	(- - -)	PM, 257°, 28.5	El Paso, Texas
TEXAS			
BIGGS FIELD (El Paso)	396 (126.18)	CA (ILS)	(3); 126.18
EL PASO	242(EO)(116.1)	SBRAZ-VDT	(3); 116.1
El Paso Mun. Airport	278 (126.18)(118.7)	AC; 257°, 4.9	(4);131.9,142.74,118.7,126.18
HUECO MOUNTAIN PM	(-)	PM, 77°, 18	El Paso

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ALAMOGORDO AAF, N. MEX.	109.9		155° Mag.	IM ·····(.22)	MM (1.00)	OM --(4.48)
					MMK	OMK
BIGGS, TEXAS	109.9		213° Mag.	IM - (.26)	MM ····· (.85)	OM --(3.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT, CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Alamoggrdo AAF (A)	8.5 SW; hwy S	4092	84h R3 L5 S4	73,100 oct.
★ Columbus Int,34,PH-EO	0.6 ESE; hwy N	4024	42 R1 L3 S1	73 oct.
(A) Deming AAF (A)	2 ESE; hwy W	4314	81h	INACTIVE.
" Airpark	6 WSW; RR N	4300	31 S4	73 oct. No sto.
(A) " #1 (South)(A)	19.5 SSW	4240	60h	Cattle on fld. INACTIVE.
(A) " #2 (Center) (A)	11.5 W; hwy S	4440	60h	INACTIVE.
★ Engle Int,10,EO-PU	2.6 E; hwy S	4842	45 R1 L3	
★ Hachita Int,29B,PH-EO	0.8 W; RR N	4498	38 L3	Pole line N
Hot Springs	7.4 N; hwy E	4500	75 S4	80 oct. Rnwy data not verified.
Hurley	0.8 W; RR E	5748	33 S4	73 oct. No sto.
Jundt (Strauss)	8.8 ESE; hwy NE	3709	32 S6	73,80 oct. No sto. Trees E.
Las Cruces (NC)	1 NE; hwy N	3900	35	
" mun.	8.5 W; hwy S	4426	75h	Cattle on fld.
" 4,EO-PU	9.5 NE; hwy S	4538	39 L3	Pwr line S.Mtn E.
★ Mt. Riley Int,37,PH-EO	1.8 SE; RR N	4106	36 L2	
Silver City (NC)	11.5 SE; hwy E	5400	54	
State College (Mesilla Park)	1.2 E; RR W	3800	30 S6	73 oct. No sto.
Tularosa (NC)	2.2 N; RR W	4550	25	Use strips only.
Valley (Berino)	1 BNE; hwy W	3825	34 S1	73 oct. 50' hi-line E.
Whitehill (Silver City)	4 SSE	5800	30	Pole line N; Rnwy data not verified.
TEXAS				
Allison Ranch (Marfa)	23.4 SW; hwy E	5100	49 S1	73 oct.
(A) Aragon #5 (Marfa)(A)	9 WNW;RR,hwy N	4880	60h	INACTIVE.
(A) Biggs (El Paso)(A)	6 NE; RR W	3937	96h R3 L5 S6	73,91,100 oct. JP-1. No range.
Blair Ranch (Marathon)(NC)	23.5 SSW; hwy E	4180	24	PRIVATE.
Castolon (NC)	0.8 NNW; riv SW	2300	16	High butte 1/2 mi E.
Cox Ranch (Longfellow)(NC)	8.4 WSW; RR S	3700	48	PRIVATE.
Decker Ranch (Candelaria)(NC)	11.5 N	3650	29	PRIVATE.
Del Rio	1.5 WNW; hwy E	1000	30 S4	80 oct. No sto. Poles N; fence NW.
Dryden Airdrome (Dryden) (NC)	1 W	2159	18	
★ Dryden Int,29,EO-JI	5.7 W; hwy N	2300	45h L3	
(N) EL PASO MUN.	4.8 ENE; RR SW	3936	70h R2 L5 S1	73,91,100 oct.No sto. ARPT OF ENTRY.
Fabens	0.7 NNE; RR SW	3750	24 S2	73 oct. Ltd sto.
Johnson Ranch (Castolon)	10.7 SE; riv SW	2092	37	
(A) Laughlin (Del Rio)(A)	7 E; hwy N	1069	67h	INACTIVE.
Marathon	0.7 SE; RR N	4039	44 S1	80 oct. Cattle on fld.
(A) Marfa AAF (A)	9 ESE; RR N	4885	75h	INACTIVE.
" Mun. (new)	4 N; hwy E	4835	53h	
" Mun. (old)	2 NE; hwy,RR S	4780	44 S4	73 oct. No sto. Pole line S. SW.
Presidio (NC)	4 N; hwy W	2850	48	NOT MAINTAINED.
" Air Strip (NC)	0.8 NE; RR S	2580	21	PRIVATE.
(A) Ryan #3 (Marfa)(A)	19 WNW; RR NE	4750	60h	INACTIVE.
Sanderson Landing Strip (NC)	2 W; RR N	2900	24	PRIVATE.
(A) South #1 (Marfa)(A)	15 SE	4825	60h	INACTIVE.
Starns (Alpine)	2.1 NW; RR E	4481	42 S6	80 oct. No sto.
Terlingua (NC)	2 E; hwy SW	2700	36	
Val Verde County (Del Rio)	4.5 ENE; RR S	1094	49h	
Yoas Ranch (Longfellow)(NC)	6.5 WSW; RR N	3675	36	PRIVATE. Pole line NW.

h-hard surfaced runways. R-radio facilities. L-... ilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CARLSBAD	311 (DKB)	MRLW;322°, 3.5	
ROSWELL (Army)	305 (DEH)	SBMRAZ	(3);126.18
Roswell AAF	396 (126.18)	CA; 255°, 3.6	(3);126.18
	TEXAS		
GUADALUPE PASS	(116.1)	VP	(4); 116.1
GUADALUPE PASS FM	(-)	FM, 79°, 17.4	Salt Flat
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso
SALT FLAT (Int.)	335(DN)(116.1)	BMRLPZ-VDT;162°,2.7	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs.; (4)-3105.4495.6210.3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamogordo	2.4 N;hwy W	4320	29 S1	73 oct.Pole line ESE.
(P) Artesia Mun.	4.2 W;rd S	3550	69h L5 S1	73-91 oct.
CARLSBAD,MUN.	6.1 SSW;hwy E	3276	65h	
" #1	11 S;hwy 3 W	3245	67h	
Carrizozo	0.6 N;hwy S	5420	33	
Dora (NC)	1.3 E;hwy W	4000	27 S1	73 oct. Pole line N.
Flying "M" Ranch(Milnesand)	0.4 NNW;hwy E	4360	20 S2	80 oct, Data unver.
John J.Small (Carlsbad)	3.5 SSE;RR NE	3150	27 S1	73 oct.
Lovington	0.8 E;hwy S	3985	36	Pole line S,SE,SW.
Parker (Ruidoso)(NC)	8.2 NNE;rd N	7200	36	Cattle on fld.
ROSWELL	1.6 WNW;RR E	3611	56 L5 S6	73 oct.Fld lgts prior req.
(A) Roswell AAF (A)	6.5 S	3621	85h R2 L5 S6	91,100 oct. No sto.
(A) " AAF #3 (A)	18 S	3712	70h	INACTIVE.
Ruidoso Flying Ser.	2 N	6900	51 S2	80 oct. Data not verified.
Tracy (Carlsbad)	2 ENE;hwy S	3080	30 S6	80 oct.
B&B Flying Ser.(Roswell)	2 S;RR E	3600	32 S2	80 oct.
Carlsbad	3 N;RR E	3100	38 S2	80 oct.,
Roswell Com.	4 W;hwy N	3700	33	Windmill SW.
	TEXAS			
Anderson (Pecos)	1.8 NNW;RR W	2620	42 S6	80 oct.Poles sur fld.
(P) Culberson Co. (Van Horn)	3.5 ENE;RR S	3955	60h	
★ Delaware Sprgs Int.11, EO-FV	16.8 E Pine Springs	3955	40 L3 S1	91 oct. Pole line SSE.
Fort Hancock (NC)	0.7 SE;RR N	3565	24	Pole line N.
Hines (Red Bluff Lake)	5.5 NNW;RR W	2800	24 S1	80 oct.
★ Hudspeth Int,4,EO-FV	48.5E ElPaso	4645	40 L1	
Kent	0.6 WNW;RR S	4260	21	Pole line NE,SW.PRIVATE.
Pecos	2.2 SSW;RR W	2617	72h	
★ Salt Flat Int,8A,EO-FV	80 E El Paso	3710	40 R1 L3 S1	80 oct;91 oct in emerg.
Sierra Blance (NC)	2.8 ESE;hwy N	4450	21	Pole line N.
Tex-Line (Orla)	13.7 NNW;hwy W	2900	26 S1	Ltd 80 oct.
Van Horn	0.8 SE;RR N	4040	26 S1	80 oct. Poles NW.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

EL PASO

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMOGORDO (Army)	221 (DOR)	RMRIZ	(3).4220; 126.18
Alamogordo AAF	272 (126.18)	CA(ILS); 167°.6.5	(3);126.18 (730-1930 Mon - Fri (Sat & Sun 730-1630
COLUMBUS (Int.)	284 (ES)(116.1)	SBMRAZ-VDT;262°.1.9	(4); 116.1
ENGLE (Int.)	344(EX)(116.1)	SBRAZ-VDT;176°;2.9	(4); 116.1
HARRINGTON RANCH FM	(- - -)	FM, 257°, 28.5	El Paso, Texas
TEXAS			
BIGGS FIELD (El Paso)	396 (126.18)	CA (ILS)	(3); 126.18
EL PASO	242(EO)(116.1)	SBRAZ-VDT	(3); 116.1
El Paso Mun. Airport	278 (126.18)(118.7)	AC; 257°, 4.9	(4);131.9,342.75,118.7,126.18
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ALAMOGORDO AAF, N. MEX.	109.9		155° Mag.	IM ·····(.22)	MM (1.00)	OM --(4.48)
					MMK	OMK
BIGGS, TEXAS	109.9		213° Mag.	IM - (.26)	MM ····· (.85)	OM --(3.50)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Alamoggrdo AAF (A)	8.5 SW; hwy S	4092	84h R3 L5 S4	73,100 oct.
★ Columbus Int,34,PH-EO	0.6 ESE; hwy N	4024	42 R1 L3 S1	73 oct.
(A) Deming AAF (A)	2 ESE; hwy W	4314	81h	INACTIVE.
" Airpark	6 WSW; RR N	4300	31 S4	73 oct. No sto.
(A) " #1 (South)(A)	19.5 SSW	4240	60h	Cattle on fld. INACTIVE.
(A) " #2 (Center) (A)	11.5 W; hwy S	4440	60h	INACTIVE.
★ Engle Int,10,EO-PU	2.6 E; hwy S	4842	45 R1 L3	
★ Hachita Int,29B,PH-EO	0.8 W; RR N	4498	38 L3	Pole line N
Hot Springs	7.4 N; hwy E	4500	75 S4	80 oct. Rnwy data not verified.
Hurley	0.8 W; RR E	5748	33 S4	73 oct. No sto.
Jundt (Strauss)	8.8 ESE; hwy NE	3709	32 S6	73,80 oct. No sto. Trees E.
Las Cruces (NC)	1 NE; hwy N	3900	35	
" mun.	8.5 W; hwy S	4426	75h	Cattle on fld.
" 4,EO-PU	9.5 NE; hwy S	4538	39 L3	Pwr line S.Mtn E.
★ Mt. Riley Int,37,PH-EO	1.8 SE; RR N	4106	36 L2	
Silver City (NC)	11.5 SE; hwy E	5400	54	
State College (Mesilla Park)	1.2 E; RR W	3800	30 S6	73 oct. No sto.
Tularosa (NC)	2.2 N; RR W	4550	25	Use strips only.
Valley (Berino)	1 ENE; hwy W	3825	34 S1	73 oct. 50' hi-line E.
Whitehill (Silver City)	4 SSE	5800	30	Pole line N; Rnwy data not verified.
TEXAS				
Allison Ranch (Marfa)	23.4 SW; hwy E	5100	49 S1	73 oct.
(A) Aragon #5 (Marfa)(A)	9 WNW;RR,hwy N	4880	60h	INACTIVE.
(A) Biggs (El Paso)(A)	6 NE; RR W	3937	96h R3 L5 S6	73,91,100 oct. JP-1. No range.
Blair Ranch (Marathon)(NC)	23.5 SSW; hwy E	4180	24	PRIVATE.
Castolon (NC)	0.8 NNW; riv SW	2300	16	High butte 1/2 mi E.
Cox Ranch (Longfellow)(NC)	8.4 WSW; RR S	3700	48	PRIVATE.
Decker Ranch (Candelaria)(NC)	11.5 N	3650	29	PRIVATE.
Del Rio	1.5 WNW; hwy E	1000	30 S4	80 oct. No sto. Poles N; fence NW.
Dryden Airdrome (Dryden) (NC)	1 W	2159	18	
★ Dryden Int,29,EO-JI	5.7 W; hwy N	2300	45h L3	
(N) EL PASO MUN.	4.8 ENE; RR SW	3936	70h R2 L5 S1	73,91,100 oct.No sto. ARPT OF ENTRY.
Fabens	0.7 NNE; RR SW	3750	24 S2	73 oct. Ltd sto.
Johnson Ranch (Castolon)	10.7 SE; riv SW	2092	37	
(A) Laughlin (Del Rio)(A)	7 E; hwy N	1069	67h	INACTIVE.
Marathon	0.7 SE; RR N	4039	44 S1	80 oct. Cattle on fld.
(A) Marfa AAF (A)	9 ESE; RR N	4885	75h	INACTIVE.
" Mun. (new)	4 N; hwy E	4835	53h	
" Mun. (old)	2 NE; hwy,RR S	4780	44 S4	73 oct. No sto. Pole line S, SW.
Presidio (NC)	4 N; hwy W	2850	48	NOT MAINTAINED.
" Air Strip (NC)	0.8 NE; RR S	2580	21	PRIVATE.
(A) Ryan #3 (Marfa)(A)	19 WNW; RR NE	4750	60h	INACTIVE.
Sanderson Landing Strip (NC)	2 W; RR N	2900	24	PRIVATE.
(A) South #1 (Marfa)(A)	15 SE	4825	60h	INACTIVE.
Starns (Alpine)	2.1 NW; RR E	4481	42 S6	80 oct. No sto.
Terlingua (NC)	2 E; hwy SW	2700	36	
Val Verde County (Del Rio)	4.5 ENE; RR S	1094	49h	
Yoas Ranch (Longfellow)(NC)	6.5 WSW; RR N	3675	36	PRIVATE. Pole line NW.

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CARLSBAD	311 (DKB)	MRLW;322°, 3.5	
ROSWELL (Army)	305 (DEH)	SBMRAZ	(3);126.18
Roswell AAF	396 (126.18)	CA; 255°, 3.6	(3);126.18
TEXAS			
GUADALUPE PASS	(116.1)	VP	(4); 116.1
GUADALUPE PASS FM	(-)	FM, 79°, 17.4	Salt Flat
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso
SALT FLAT (Int.)	335(DN)(116.1)	BMRLPZ-VDT;162°,2.7	(4); 116.1

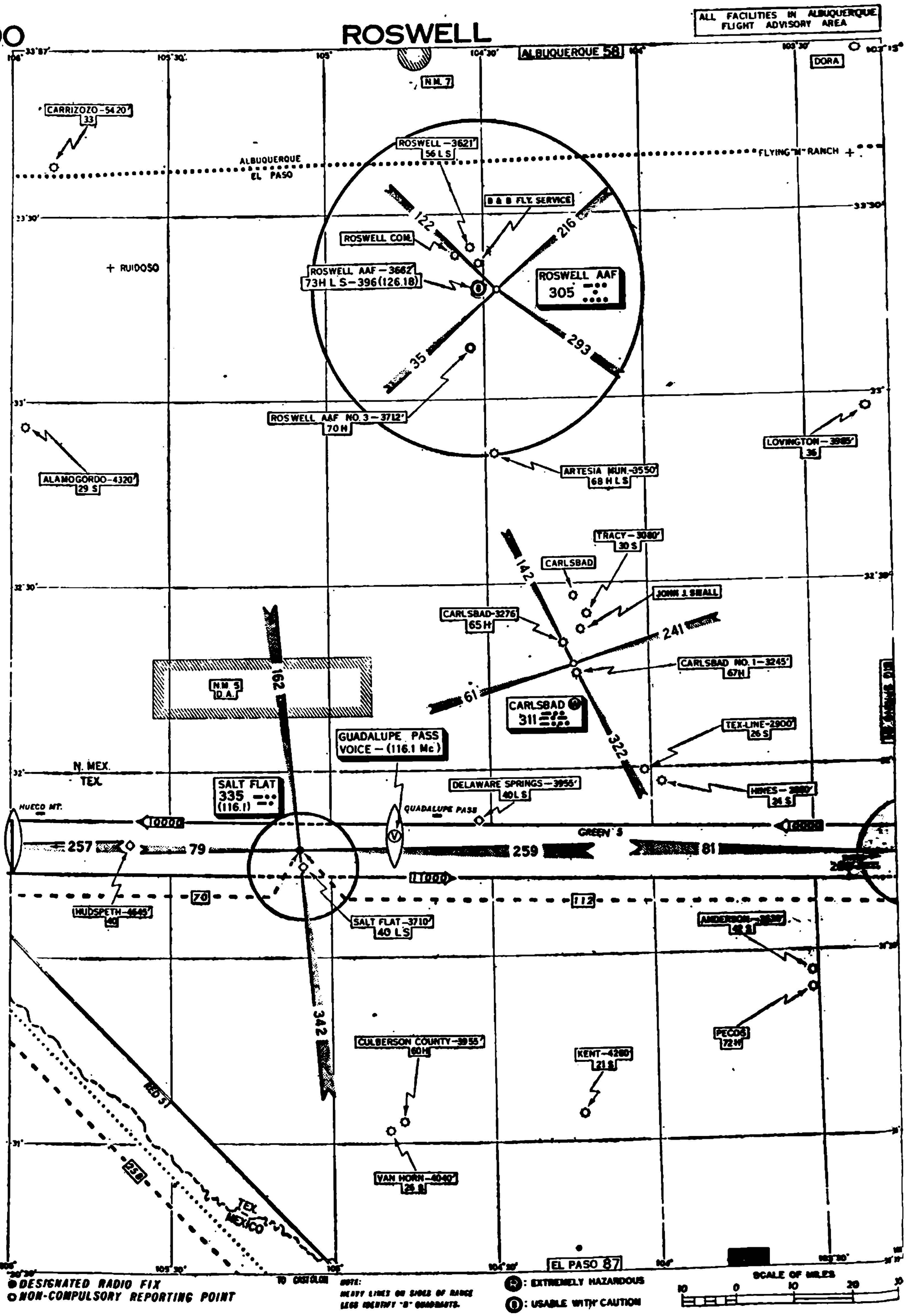
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs., (4)-3105.4495.6210.3117 5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

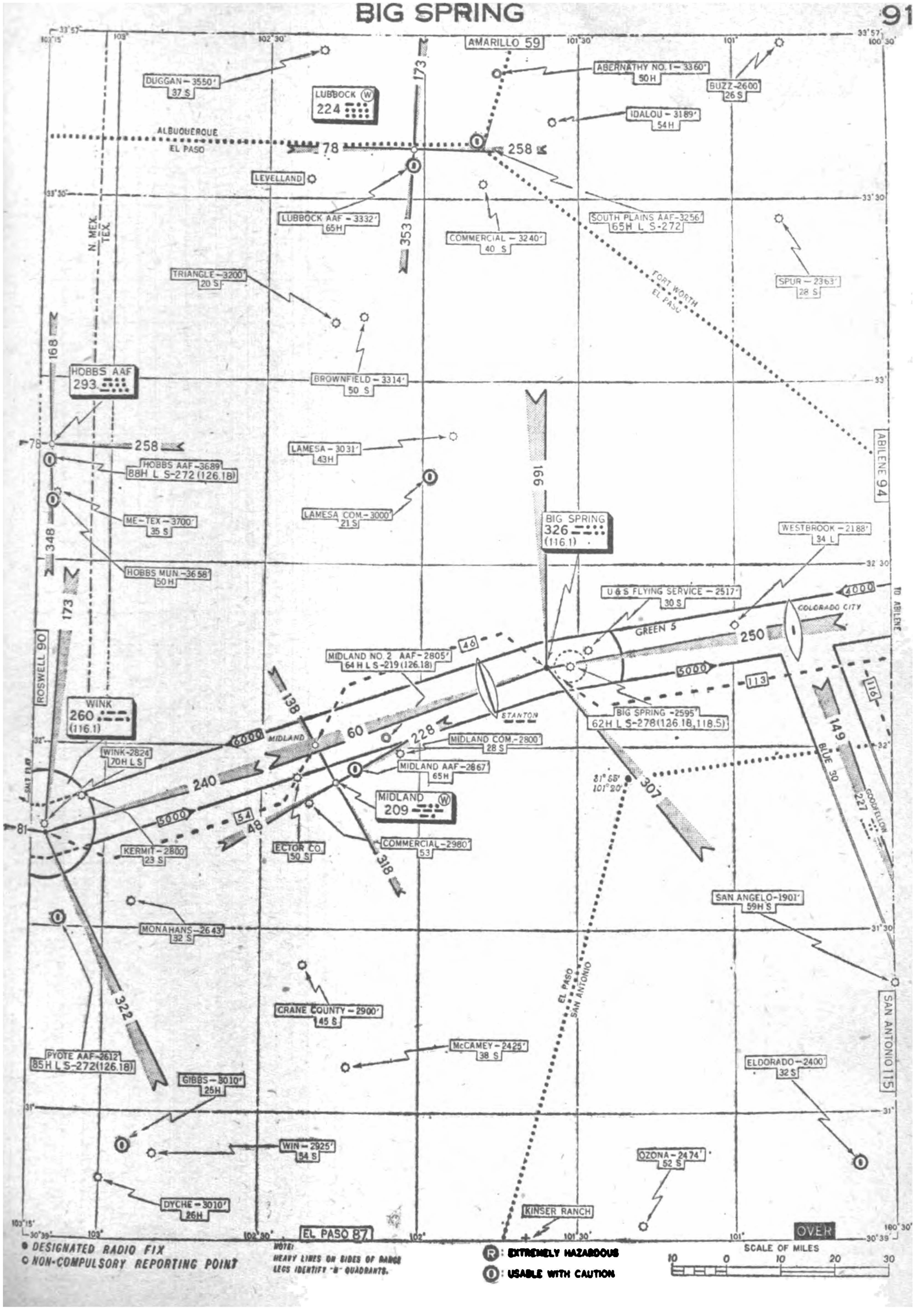
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamogordo	2.4 N;hwy W	4320	29 S1	73 oct.Pole line ESE.
(P) Artesia Mun.	4.2 W;rd S	3550	69h L5 S1	73-91 oct.
CARLSBAD ,MUN.	6.1 SSW;hwy E	3276	65h	
" #1	11 S;hwy 3 W	3245	67h	
Carrizozo	0.6 N;hwy S	5420	33	
Dora (NC)	1.3 E;hwy W	4000	27 S1	73 oct. Pole line N.
Flying "M" Ranch(Milnesand)	0.4 NNW;hwy E	4360	20 S2	80 oct, Data unver.
John J.Small (Carlsbad)	3.5 SSE;RR NE	3150	27 S1	73 oct.
Lovington	0.8 E;hwy S	3985	36	Pole line S,SE,SW.
Parker (Ruidoso)(NC)	8.2 NNE;rd N	7200	36	Cattle on fld.
ROSWELL	1.6 WNW;RR E	3611	56 L5 S6	73 oct.Fld lgts prior req.
(A) Roswell AAF (A)	6.5 S	3621	85h R2 L5 S6	91,100 oct. No sto.
(A) " AAF #3 (A)	18 S	3712	70h	INACTIVE.
Ruidoso Flying Ser.	2 N	6900	51 S2	80 oct. Data not verified.
Tracy (Carlsbad)	2 ENE;hwy S	3080	30 S6	80 oct.
B&B Flying Ser.(Roswell)	2 S;RR E	3600	32 S2	80 oct.
Carlsbad	3 N;RR E	3100	38 S2	80 oct.,
Roswell Com.	4 W;hwy N	3700	33	Windmill SW.
TEXAS				
Anderson (Pecos)	1.8 NNW;RR W	2620	42 S6	80 oct.Poles sur fld.
(P) Culberson Co. (Van Horn)	3.5 ENE;RR S	3955	60h	
★ Delaware Sprgs Int.11, EO-FV	16.8 E Pine Springs	3955	40 L3 S1	91 oct. Pole line SSE.
Fort Hancock (NC)	0.7 SE;RR N	3565	24	Pole line N.
Hines (Red Bluff Lake)	5.5 NNW;RR W	2800	24 S1	80 oct.
★ Hudspeth Int,4,EO-FV	48.5E ElPaso	4645	40 L1	
Kent	0.6 WNW;RR S	4260	21	Pole line NE,SW.PRIVATE.
Pecos	2.2 SSW;RR W	2617	72h	
★ Salt Flat Int,8A,EO-FV	80 E El Paso	3710	40 R1 L3 S1	80 oct;91 oct in emerg.
Sierra Blanca (NC)	2.8 ESE;hwy N	4450	21	Pole line N.
Tex-Line (Orla)	13.7 NNW;hwy W	2900	26 S1	Ltd 80 oct.
Van Horn	0.8 SE;RR N	4040	26 S1	80 oct. Poles NW.

A-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

ROSWELL


ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA
ALBUQUERQUE 58
DORA
N.M. 7
CARRIZOZO - 5420'
33
ROSWELL - 3621'
56 L S
ALBUQUERQUE
EL PASO
FLYING "M" RANCH
D & B FLY. SERVICE
ROSWELL COM.
122
216
ROSWELL AAF - 3662'
73H L S - 396 (126.18)
ROSWELL AAF
305
+ RUIDOSO
293
35
ROSWELL AAF NO. 3 - 3712'
70 H
LOVINGTON - 3985'
36
ARTESIA MUN. - 3550'
68 H L S
ALAMOGORDO - 4320'
29 S
TRACY - 3080'
30 S
CARLSBAD
142
JOHN J. SHALL
CARLSBAD - 3276'
65 H
241
CARLSBAD NO. 1 - 3245'
67 H
N.M. S
D.A.
162
61
CARLSBAD
311
TEX-LINE - 2900'
26 S
GUADALUPE PASS
VOICE - (116.1 Mc)
322
N. MEX.
TEX.
SALT FLAT
335
(116.1)
DELAWARE SPRINGS - 3955'
40 L S
HUECO MT.
GUADALUPE PASS
GREEN'S
257
79
259
81
HUDSPETH - 4645'
40
SALT FLAT - 3710'
40 L S
70
112
342
CULBERSON COUNTY - 3955'
60 H
KENT - 4280'
21 S
PECOS
72 H
VAN HORN - 4040'
25 S
251
TEX.
MEXICO
EL PASO 87
TO CHIHUAHUA
NOTE:
HEAVY LINES ON EDGE OF RANGE LEGS INDICATE "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
I: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

BIG SPRING


AMARILLO 59
ABERNATHY NO. 1 – 3360'
50 H
BUZZ – 2600'
26 S
DUGGAN – 3550'
37 S
LUBBOCK (W)
224
IDALOU – 3189'
54 H
ALBUQUERQUE
EL PASO
78
258
173
LEVELLAND
LUBBOCK AAF – 3332'
65 H
353
COMMERCIAL – 3240'
40 S
SOUTH PLAINS AAF – 3256'
65 H L S-272
N. MEX.
TEX.
TRIANGLE – 3200'
20 S
FORT WORTH
EL PASO
SPUR – 2363'
28 S
168
HOBBS AAF
293
BROWNFIELD – 3314'
50 S
ABILENE 94
LAMESA – 3031'
43 H
166
HOBBS AAF – 3689'
88 H L S-272 (126.18)
LAMESA COM. – 3000'
21 S
BIG SPRING
326
(116.1)
WESTBROOK – 2188'
34 L
ME-TEX – 3700'
35 S
348
HOBBS MUN. – 3656'
50 H
U & S FLYING SERVICE – 2517'
30 S
4000
COLORADO CITY
GREEN 5
250
TO ABILENE
MIDLAND NO. 2 AAF – 2805'
64 H L S-219 (126.18)
46
5000
113
116
ROSWELL 90
WINK
260
(116.1)
138
STANTON
BIG SPRING – 2595'
62 H L S-278 (126.18, 118.5)
6000
MIDLAND
60
228
MIDLAND COM. – 2800'
28 S
149
BLUE 30
WINK – 2824'
70 H L S
240
MIDLAND AAF – 2867'
65 H
81° 55'
101° 20'
307
MIDLAND
209
(W)
5000
54
48
KERMIT – 2800'
23 S
ECTOR CO.
50 S
COMMERCIAL – 2980'
53
318
227
GOODFELLOW
SAN ANGELO – 1901'
59 H S
MONAHANS – 2643'
32 S
CRANE COUNTY – 2900'
45 S
322
EL PASO
SAN ANTONIO
McCAMEY – 2425'
38 S
ELDORADO – 2400'
32 S
SAN ANTONIO 115
PYOTE AAF – 2612'
85 H L S-272 (126.18)
GIBBS – 3010'
25 H
WIN – 2925'
54 S
OZONA – 2474'
52 S
DYCHE – 3010'
26 H
KINSER RANCH
EL PASO 87
OVER
103° 15'
30° 39'
103°
102° 30'
102°
101° 30'
101°
100° 30'
33° 57'
33° 30'
32° 30'
32°
31° 30'
31°
93
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS., OF OPER., REMARKS
HOBBS (Army)	**293 (DHB)**	**BM**RLZ	(3)
Hobbs AAF	**272 (126.18)**	**CA**; 168°, 2.8	(3);126.18 (7-23)
		TEXAS	
BIG SPRING	326(BZ)(116.1)	SBRAZ-VDT	(3); 116.1
Big Spring Arpt.	278 (126.18)	C; 70°, 3.9	(4); 126.18,131.9.Trs. & gds. 118.5 mcs.
COLORADO CITY FM	(-)	FM, 70°, 47	Big Spring
LUBBOCK (AAF)	224 (DHH)	MRLWZ; 173°,3.9	
MIDLAND	209 (DON)	MRLWZ;48°,3.8-AAF	(3); 126.18
Midland No. 2	219 (126.18)	CA	(4); 140.58
PYOTE AAF	272 (126.18)	CA	(3); 126.18
SOUTH PLAINS AAF (Lubbock)	272	CA	(3) (8-22)
STANTON FM	(- - -)	FM, 240°,12	Big Spring.
WINK	260(WP)(116.1)	SBRAZ-VDT,353°,1.2	(4); 116.1

S-Simultaneous Range and Voice. W-Without Voice, Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117 **5 kcs Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available**

AIRPORTS — NEW MEXICO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Continental (Jal)(NC)	0.7 W, hwy E	3100	20	
(A) HOBBS AAF (A)	8 NW,RR NE	3689	88h R2 L5 S4	91,100 oct.
HOBBS MUN.	5 W,hwy N	3658	50h L5	All lgts prior req.
(P) Me-Tex (Hobbs)	4.5 W,hwy N	3700	35 S6	80,87 oct.Pole line N,W,NW.
		TEXAS		
(A) Abernathy #1 (A)	5 ENE	3346	50h	INACTIVE
(P) BIG SPRING	3.3 WSW;RR N	2595	62h R2 L5 S6	80,91,100 oct.
Brownfield	5 E;hwy N	3314	50 S2	80 oct.Poleline N, NE.
Buzz (Roaring Spgs)	2.3 NNE;hwy W	2600	26 S1	73 oct.Poleline S.
Commercial (Lubbock)	3.2 SE;bet hwys	3240	40 S6	73,80 oct.No sto. Use strips.
Commercial (Odessa)	1.9 E; RR N	2980	53 S4	Poleline NE,NNE.
Crane Co.(Crane)	1 NNW;hwy E	2900	45 S1	73 oct.Hi-line S.
Duggan (Littlefield)	1.2 S;RR NE	3550	37 S4	80,91 oct.Pwrline E, NE, SE.
Dyche (Fort Stockton)	9 SW;RR E	3010	26h	Allway area: 4000 x 4000'.
Ector County (Odessa)	5 NNW;hwy W	2900	50 S2	80 oct.
Eldorado	1 W;RR E	2400	32 S1	80 oct. Poles-E. Livestock on fld.
Gibbs (Fort Stockton)	2.7 NNW	3010	25h	Allway area: 4800 x 5000'.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (see page XIV) (NC)-not charted. → NEW OR REVISED DATA.

TEXAS

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Idalou	5.5 ENE	3189	54h	
Iraan (NC)	5 NW	2300	26	
Kermit	1.3 E;RR W	2800	23 S1	80 oct.
Kinser Ranch (Ozona)	25 W;riv W	2474	24 S1	80 oct.PRIVATE. Data unverified.
Lamesa	8.9 NNE;hwy E	3031	43h	
Lamesa Commercial	1.8 WNW;hwy S	3000	21 S1	73 oct.Pole line SSE.
Levelland	2 S;hwy W	3550	25 S1	80 oct.Poleline NW, SW.
(A) Lubbock AAF (A)	9 W;RR S	3332	65h	INACTIVE.
McCamey	0.8 SW;RR N	2425	38 S6	80 oct.Hi-line SSE.
(A) Midland AAF (A)	9.5 WSW;RR S	2867	65h	INACTIVE.
Midland Commercial	1.1 SSE;RR N	2800	28 S4	80 oct.No sto.Rnwy data unverified.
(A,N) Midland #2 (A)	3 NW; rd E	2805	64h R1 L5 S4	91, 100 oct. JP-1. No sto.
Monahans	1.2 SW;RR N	2643	32 S2	80 oct.Pole line SSW
Ozona	4.9 WSW;hwy N	2474	52 S1	80 oct.
(A) Pyote AAF (A)	1 SW;RR N	2612	85h R1 L5 S6	91, 100 oct. No sto.
Rita Santa (NC)	0.5 S;RR N	2800	40	Obsts sur fld.
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S2	80, 91 oct.
(A) SOUTH PLAINS AAF (Lubbock)	5.5 NNE;RR W	3256	65h R1 L5 S6	73, 91, 100 oct.
Spur	2.2 S;RR N	2363	28 S4	80, 91 oct.
Triangle (Brownfld)	1.8 SSW;RR NW	3200	20 S2	73 oct.
U & S Flying Service (Big Spring)	1.5 N;hwy S	2517	30 S6	80 oct.
★ West Brook Int,32, EO-FV	1.3 S;RR N	2188	34 L3	Pole line N, S.
Win (Ft. Stockton)	3.2 E;hwy N	2925	54 S6	80 oct.
Wink	3.6 WNW;rd SE	2824	70h R1 L5 S2	80 oct.

ABILENE

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ABILENE	379(AP)(116.1)	SBRAZ-VDT	(4); 116.1
Abilene Air Term.	278 (118.7)	C; 180°, 2.3	(4); 118.7,126.18,140.1, 131.9
CLARENDON	233(CP)(116.1)	BMRL-VDT,199°,2	(4); 116.1
HARPERSVILLE (Int.)	284(HV)(116.1)	MHVT	(4); 116.1
SHEPPARD/KELL MUN.ARPT.(Wichita Falls)	201 (126.18)	CA	(4). 126.18
WICHITA FALLS (Sheppard/Kell Mun. Airport)	239(WF)(116.1)	SBMRAZ-VDT,301°, 1.9	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

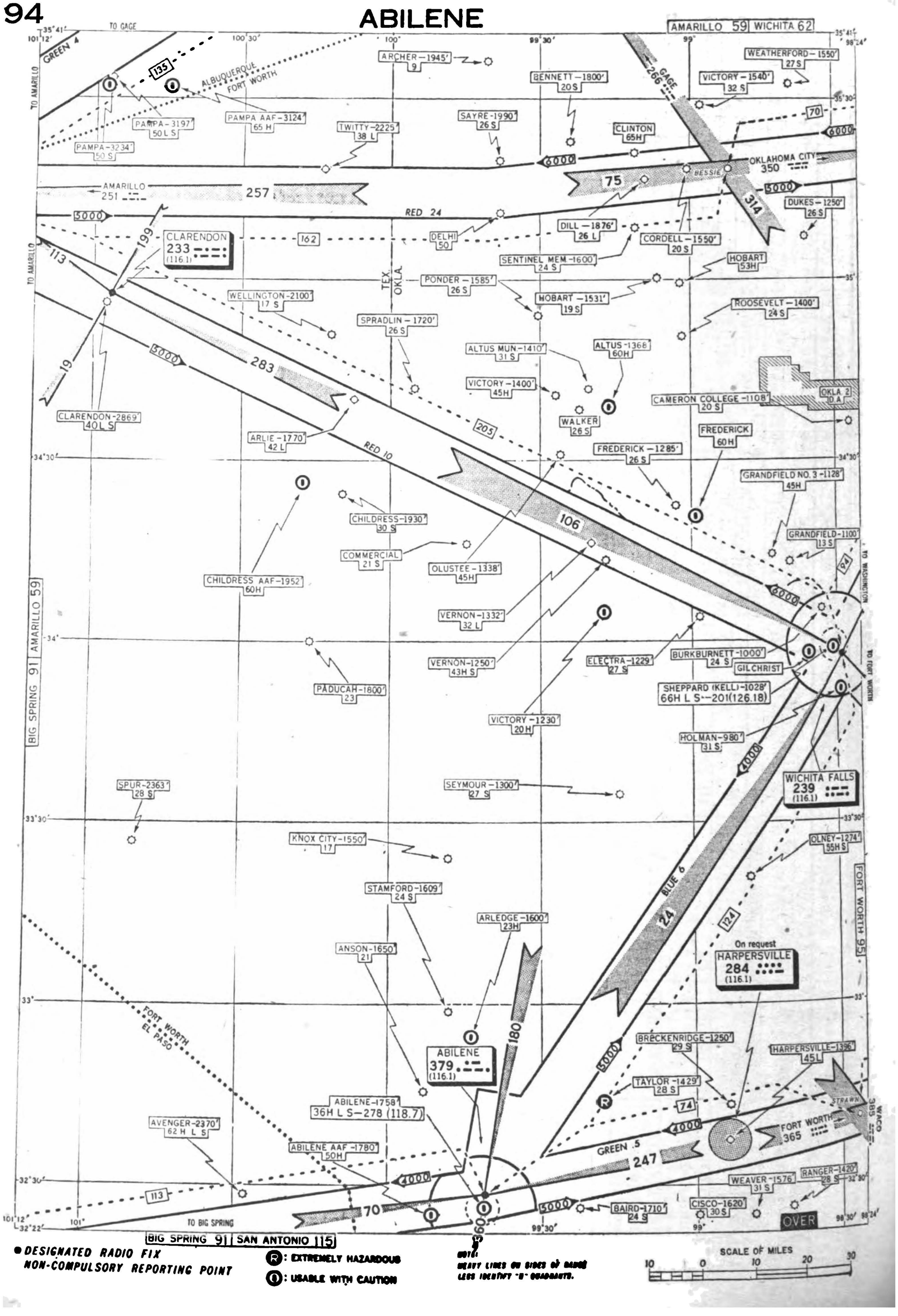
AIRPORTS

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Altus	3.4 ENE;hwy S	1368	60h	
Altus, mun.	4.2 N,RR W	1410	31 S6	73,80 oct.Polelines W.
Archer (Cheyenne)	1.2 SW,hwy E	1945	9 S4	No fuel
Bennett (Elk City)	2 SSE,RR NE	1800	20 S1	73 oct.Poleline W.Lgt acft only.
Cameron College (Lawton)	2.5 W,RR N	1108	20 S4	80 oct.
Clinton	17 SW,hwy E	1932	65h	
Cordell	1.3 NW,RR E	1550	20 S1	80 oct.
Delhi	2.5 ENE,hwySW	1937	50	
★ Dill Int,14,AQ-LS	0.5 NW,hwy N	1876	26 L3	Poleline N, E.
Dukes(Carnegie)	1 NNW,riv S	1250	26 S1	80 oct.Poleline S.
Frederick,mun.	2.3 WSW,RR SE	1285	26 S6	73 oct.
Frederick	3.5 SSE	1233	60h	
Grandfield	1.2 SE,RR N	1100	13 S1	73 oct.
Grandfield #3	3.1 W,RR NE	1128	45h	
Haddock (Erick)	1.4 SW,RR N	2017	34 S1	80 oct.Poleline N,NW.
(P) Hobart	3.8 SE,RR N	1583	53h	
Hobart, mun.	1.5 SW,RR NW	1531	19 S6	73 oct.
Olustee(Altus)	10 SE,riv E	1338	45h	
Ponder (Mangum)	1.6 N,hwy S	1585	26 S2	73, 80 oct.
Roosevelt	0.5 NW,rd N	1400	24 S1	80 oct.Pwr line N.
Sayre	2.3 N,hwy W	1990	26 S4	80 oct.
Sentinel Memorial	0.8 SSW,RR W	1600	24 S1	73 oct.
Spradlin(Hollis)	1 N,hwy S	1720	26 S2	80 oct
Victory (Altus)	7.2 NW,riv E	1400	45h	
Walker (Altus)	1.6 W,RR E	1400	26 S4	80 oct.Poleline N.
Weatherford	2.7 ENE,RR S	1550	27 S2	80 oct.

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) ABILENE AIR TERMINAL	2.8 ESE,RR N	1758	36h R2 L5 S6	73,80,91,100 oct.
(A) Abilene AAF (A)	7 WSW,hwy N	1780	50h	INACTIVE.
Anson	0.8 ENE,RR W	1650	21	
Arledge(Stamford)	5 SE,RR SW	1600	23h	Pole line S.
★ Arlie Int,9,AQ-FV	3.8 SW,hwy SE	1770	42 L3	
(P) Avenger(Sweetwater)	3.5 W,RR S	2370	62h L5 S1	80 oct.
Baird	3.1 NNE,hwy W	1710	24 S6	73, 80 oct.
Breckenridge	2.5 S,RR E	1250	29 S6	80 oct.
Burkburnett	1 SE,RR SW	1000	24 S2	80 oct.Poles E.
Childress	3.2 ESE,RR NE	1930	30 S4	73,80 oct.Poleline sur. field.
(A) Childress AAF(A)	5.2 W,RR N	1952	60h	INACTIVE.
Cisco	2.5 NNW,lake 2 N	1620	30 S6	80 oct.
Clarendon 4,AQ-FV	3.8 W,RR NE	2869	40 R1 L3 S6	80, 91 oct.
Commercial(Quanah)	1.8 S,hwy E,N	1568	21 S2	Ltd 80 oct.
Electra	3.6 WNW,RR S	1229	27 S2	80 oct.
Gilchrist (Wichita Falls)	7 WNW,RR S	1020	30 S1	80 oct.Pwrline S.
★ Harpersville Int,44, EO-FV	9.2 S of Breckenridge	1396	45 R1 L3	
Holman (Wichita Falls)	3.1 SSE,hwy W	980	31 L S6	80,91 oct.Poles SE, E, NE.
Knox City	0.8 SSE,RR W	1550	17	
(P) Olney	4 WSW,rd S,N	1274	55h S4	80, 91 oct.
Paducah	2.5 ESE,RR NW	1800	23	
Pampa	1 NNE,RR S	3234	50 S6	80,91 oct.Poleline S.
(A) Pampa AAF (A)	12.3 E	3124	65h	INACTIVE.
Pampa Int,4,AQ-KC	1.9 NE,RR S	3197	50 L3 S1	80, 91 oct.
Ranger	1.5 SSW,RR W	1420	28 S6	80 oct.Poleline NE.
Seymour	1.3 SE,riv SW	1300	27 S1	80 oct.
(A) SHEPPARD/KELL MUN.(Wichita Falls)	5.8 N,hwy W	1028	66h R2 L5 S6	80, 91 oct.
Spur	2.2 S,RR N	2363	28 S4	80, 91 oct.
Stamford	2.5 N,hwy E	1609	24 S2	80 oct.
Taylor (Albany)	1 N,RR SW	1429	28 S2	80 oct.
★ Twitty Int,8A,AQ-LS	1 SE,hwy W	2225	38 L3	
Vernon	5 N,hwy E	1250	43h S6	73, 80 oct.No sto.
★ Vernon Int,15,AQ-FV	8.8 NNW,hwy E	1332	32 L3	
Victory (Vernon)	5.9 SSW,hwy E	1230	20h S2	No fuel.
Weaver (Eastland)	1 NE,RR S	1576	31 S6	80 oct.
Wellington	1 SE,hwy W	2100	17 S1	80 oct.Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) NC-(not charted) → NEW OR REVISED DATA.

ABILENE



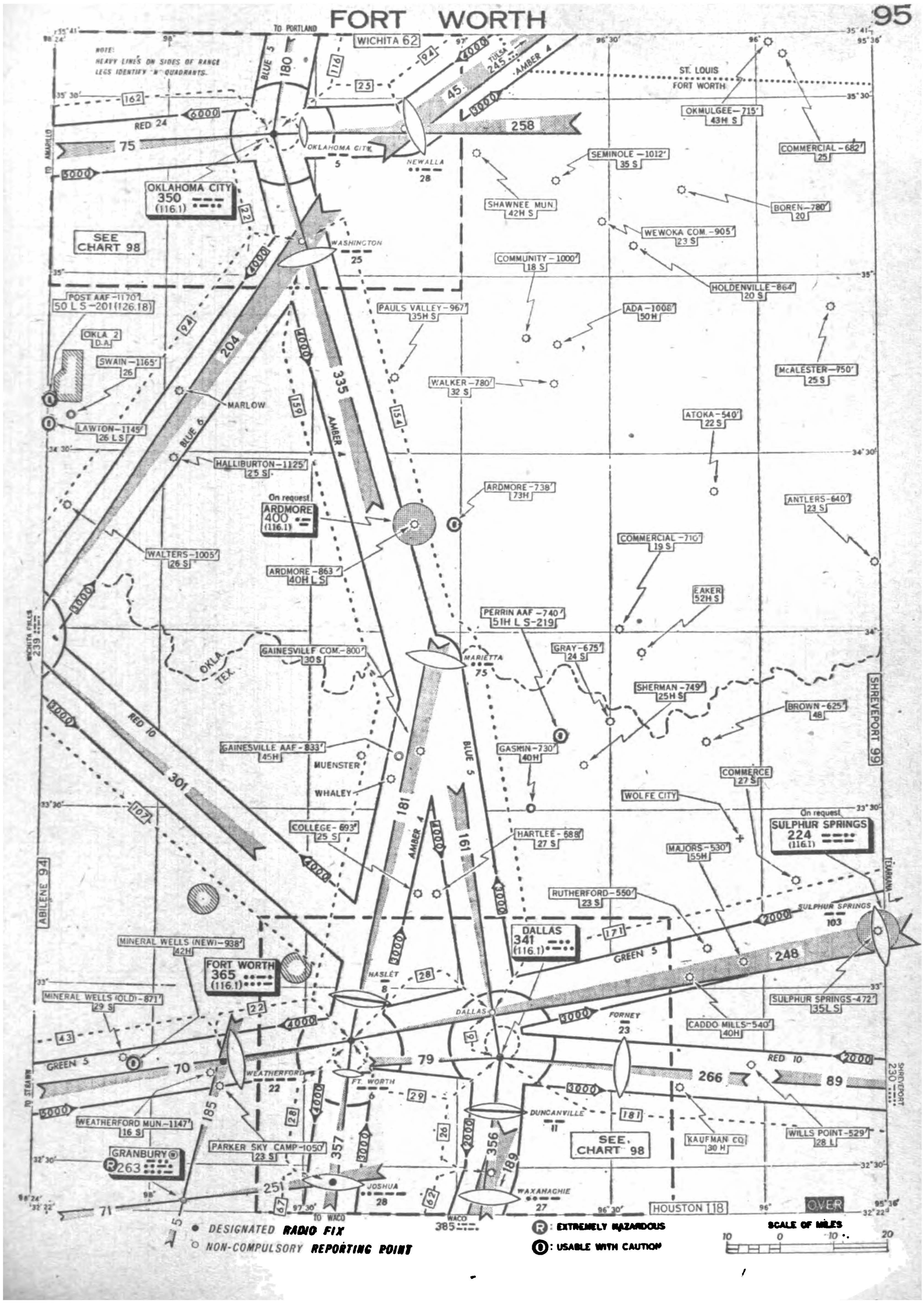
● DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" BOUNDARIES.

FORT WORTH


TO PORTLAND
WICHITA 62
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
BLUE 5
180
116
94
4000
TULSA 245
AMBER 4
45
25
162
6000
RED 24
258
ST. LOUIS
FORT WORTH
OKMULGEE – 715'
43H S
COMMERCIAL – 682'
25
SEMINOLE – 1012'
35 S
75
5000
OKLAHOMA CITY
5
NEWALLA
28
OKLAHOMA CITY
350
(116.1)
22
SEE CHART 98
WASHINGTON
25
SHAWNEE MUN.
42H S
BOREN – 780'
20
WEWOKA COM. – 905'
23 S
COMMUNITY – 1000'
18 S
HOLDENVILLE – 864'
20 S
POST AAF – 1170'
50 L S – 201 (126.18)
PAULS VALLEY – 967'
35H S
ADA – 1008'
50H
OKLA 2
D.A.
SWAIN – 1165'
26
204
MARLOW
159
335
AMBER 4
154
McALESTER – 750'
25 S
WALKER – 780'
32 S
ATOKA – 540'
22 S
LAWTON – 1145'
26 L S
BLUE 6
HALLIBURTON – 1125'
25 S
On request
ARDMORE
400
(116.1)
ARDMORE – 738'
73H
ANTLERS – 640'
23 S
COMMERCIAL – 710'
19 S
WALTERS – 1005'
26 S
ARDMORE – 863'
40H L S
EAKER
52H S
PERRIN AAF – 740'
51H L S – 219
WICHITA FALLS
239
GAINESVILLE COM. – 800'
30 S
MARIETTA
75
GRAY – 675'
24 S
SHERMAN – 749'
25H S
BROWN – 625'
48
SHREVEPORT 99
OKLA.
TEX.
GAINESVILLE AAF – 833'
45H
MUENSTER
GASKIN – 730'
40H
COMMERCE
27 S
WHALEY
WOLFE CITY
On request
SULPHUR SPRINGS
224
(116.1)
RED 10
301
181
BLUE 5
161
COLLEGE – 693'
25 S
HARTLEE – 688'
27 S
MAJORS – 530'
55H
AMBER 4
ABILENE 94
RUTHERFORD – 550'
23 S
SULPHUR SPRINGS
103
DALLAS
341
(116.1)
171
GREEN 5
248
MINERAL WELLS (NEW) – 938'
42H
FORT WORTH
365
(116.1)
HASLET
8
28
SULPHUR SPRINGS – 472'
35L S
MINERAL WELLS (OLD) – 871'
29 S
DALLAS
FORNEY
23
CADDO MILLS – 540'
40H
43
GREEN 5
70
79
266
89
RED 10
WEATHERFORD
22
FT. WORTH
6
29
SHREVEPORT
230
TO STRAWN
WEATHERFORD MUN. – 1147'
16 S
185
357
356
189
DUNCANVILLE
11
181
SEE CHART 98
KAUFMAN CQ
30 H
WILLS POINT – 529'
28 L
PARKER SKY CAMP – 1050'
23 S
GRANBURY
R 263
JOSHUA
28
WAXAHACHIE
27
251
71
TO WACO
WACO
385
HOUSTON 118
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20

RADIO

OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARDMORE	400 (AT)(116.1)	MHVT	(4); 116.1
MARIETTA FM	(. . -)	FM, 1°, 75	Fort Worth, Texas
NEWALLA FM	(. . - -)	FM, 78°, 27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350 (OL)(116.1)	SBRAZ-VDT,78°,1.6	(3); 116.1
OKLAHOMA CITY LFM	**(- -)**	**LFM, 78°, 5.4**	**Oklahoma City**
POST FIELD (Lawton)	**201 (126.18)**	**CA**	**(3); 126.18 (7-17 Mon.-Fri.)**
WASHINGTON FM	**(- - -)**	**FM, 155°, 24.6**	**Oklahoma City**

TEXAS

DALLAS (Love)	**341 (DL)(116.1)**	**SBMRAZ-VDT,35692.5**	**(3)**; 116.1
DUNCANVILLE FM	(- -)	**FM, 176°, 10.5**	Dallas
FORNEY FM	(-)	FM, **86°, 23**	Dallas
FORT WORTH (Meacham Fld)	365 (FV)(116.1)	SBRA**Z-VDTX**,176°,2.3	(3); 116.1
FORT WORTH LFM	(- - -)	LFM, 177°, 6.2	Fort Worth
GRANBURY	263 (DFV)	MRLWZ	
HASLET FM	(-)	FM, 1°, 8.1	Fort Worth
JOSHUA FM	(. . - - -)	FM, 177°, 27.7	Fort Worth
PERRIN FIELD (Sherman)	219	CA	(3)
SULPHUR SPRINGS (Int.)	224 (ZP)(116.1)	MHVT	(4); 116.1
SULPHUR SPRINGS FM	(- -)	FM, 68°, 103	Fort Worth
WAXAHACHIE FM	(. . - -)	FM, 176°, 27	Dallas
WEATHERFORD FM	(- - - -)	FM, 250°, 22	Fort Worth

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495,6210 kcs. (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

OKLAHOMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Ada	2 N, RR SW	1008	50h	
Antlers	2.8 S,RR E	640	23 S2	80 oct.
Ardmore	11.2 NNE,riv E	738	73h	CAUTION: Intensive airline training.
Ardmore 10, FV-WD	9.2 N,hwy E	863	40h R1 L3 S6	80, 91 oct. Poles E.
Atoka	1.8 NW,RR S	540	22 S2	73 oct. Pole line S.
Boren (Wetumka)	1.5 NW,hwy S	780	20	
Commercial (Durant)	5.2 W,RR N	710	19 S2	73 oct. Rnwy data unverified.
Commercial (Okmulgee)	3.4 E,RR N	682	25 S2	Ltd 73 oct. Poles SW.
Community (Ada)	6.8 WNW,RR NE	1000	18 S6	80 oct.
(P) Eaker (Durant)	3.2 SSW,RR NW	703	52h L5 S1	80, 91 oct. All lgts prior req.
Halliburton (Duncan)	1 S, RR E	1125	25 L S4	80,88 oct. Range lgts.
Holdenville	1.2 WNW,RR NE	864	20 S2	73 oct. Pole line N.
Lawton	1.5 S,RR E	1145	26 L2 S4	73 oct. Fld lgts prior req. Poles NW.
Marlow	1.6 N,RR E	1150	15	Pole line S.
McAlester	2 SSE,RR W	750	25 S6	80 oct.
(P) Okmulgee	3 NNE,hwy W	715	43h L5 S6	73,80 oct. Ctc lgts prior request.
(P) Pauls Valley	2.1 S,RR E	967	35h L1 S1	80 oct.
(A) Post (Lawton)(A)	3 N	1170	50 R1 L4 S4	73 oct.; ltd 100 oct.
Seminole	3.4 NNW,hwy E	1012	35 S2	80 oct. Trees W, NW.
(P) Shawnee	2 NW,RR E	1080	42h L5 S2	80, 91 oct. Fld lgts prior req.
(A) Swain (Lawton)(A)	3.5 E,hwy N	1165	26	
Tishomingo (NC)	7.5 N	890	29	
Walker (Ada)	5.4 S,hwy W	860	32 S6	73, 80 oct. Trees sur fld.
Walters	1.2 SW,RR E	1005	26 S2	73 oct. Cattle on field.
Wewoka, com.	1.8 W,lake N	905	23 S6	80 oct. Pole line NNE.
Wewoka, mun. (NC)	4.7 NE,hwy N	790	30	

TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bowie (NC)	2.8 NW,bet RRs	1050	19	Cattle on fld. Trees N.
Brown (Bonham)	8 N,hwy W	625	48	Pole line S, W.
Caddo Mills(Greenv'l)	10.7 SW,hwy W	540	40h	
→ College (Denton)	4.2 N	693	25 S6	73 oct. Cattle on field.
Commerce	3.4 NNE,hwy SE	548	27 S6	80, 91 oct.
(A) Gainesville AAF (A)	3.8 WNW,RR S	833	45h	
Gainesville com.	3 NNE,hwy W	800	30 L1 S1	80 oct. Poles S.
(A) Gaskin (Sherman)(A)	12.6 SW,rd E	730	40h L	B-2, flood lgts.
Gray (Denison)	2.5 E,RR N	675	24 L S6	80 oct. Emerg lgts by circling fld.
→ Hartlee (Denton)	5.4 NE,RR SSE	688	27 S6	73,80 oct. Poles S
Jones (Bonham)(NC)	2 NNE,hwy E	616	18h	
Majors (Greenville)	5 SSE,RR W	530	55h	
(P) Mineral Wells, new	3.2 SE,RR N	938	42h	
Mineral Wells, old	1.1 SE,rd W,S	871	29 S6	80 oct. No sto. Pole line WSW.
Muenster	2.6 E,RR S	1010	26 S1	80 oct. Pole line S.
Parker Sky Camp (Weatherford)	3.4 SSE,RR NW	1050	23 S4	80 oct.
(A) Perrin (Sherman)(A)	6.4 NNW,RR N	740	51h R1 L5 S6	73, 91, 100 oct.
Rutherford (Greenv'l)	4.5 WSW,hwy SE	550	23 S3	73 oct. Pole line S.
Sherman	1.4 SE,hwy N	749	25h S6	80 oct.
So. Sulphur (Greenv'l)	9.5 NNE	550	30	(NC)
Sulphur Springs, 7B, DL-LV	1.9 NW,RR S	472	35 R1 L3 S1	80 oct. Pole line S,SE.
Kaufman County (Terrell)	1.5 SE,RR W	490	30h	
Weatherford, mun.	1 W, hwy N	1147	16 S4	80 oct.
Whaley Arpk(Gainesv'l)	5.7 WSW,RR N	820	20 S2	80 oct. Pole line N.
* Wills Point Int,7,FV-AG	5.9 NW	529	28 L3	
Wolfe City	2 N		20 S1	80 oct. Data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

RADIO

OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
NEWALLA FM	(. . - -)	FM,78°,27.5	Oklahoma City
OKLAHOMA CITY	350(OL)(116.1)	SBRAZ-VDT,78°,1.6	(3); 116.1
(Will Rogers Field)			
OKLAHOMA CITY LFM	(- -)	LFM,78°,5.4	Oklahoma City
TINKER, OKLAHOMA CITY	221 (DTE)	BMRAZ	4495
(Army)			
Tinker Field	396 (126.18)	CA;170°,5.3	(3); 126.18
WILL ROGERS FIELD	272 (126.18)	C	(4); 126.18,131.9
(Oklahoma City)			
WASHINGTON FM	(- - -)	FM,155°,24.6	Oklahoma City
TEXAS			
DALLAS (Love Field)	341(DL)(116.1)	SBMRAZ-VDT,356°,2.5	(3); 116.1
DUNCANVILLE	404 (D)	FMK,176°,10.5	Dallas
DUNCANVILLE FM	(- -)	FM,176°,10.5	Dallas
FORNEY FM	(-)	FM,86°,23	Dallas
FORT WORTH	365(FV)(116.1)	SBRAZ-VDTX,177°,2.3	(3); 116.1
(Meacham Field)			
Fort Worth AAF	201 (126.18)	CA	(3); 126.18
FORT WORTH LFM	(- - -)	LFM,177°,6.2	Fort Worth
HASLET FM	(-)	FM,1°,8.1	Fort Worth
HASLET	371 (F)	FMK,1°,8.1	Fort Worth
HENSLEY FIELD (Dallas)	396 (126.18)	CA	(4); 126.18
JOSHUA FM	(. . - - -)	FM,177°,27.1	Fort Worth
LOVE FIELD (Dallas)	278 (126.18) (118.9)	AC (ILS)	(4); 118.9,131.9,126.18
MEACHAM FIELD (Fort Worth)	272 (126.18) (118.7)	AC	(4); 142.74,131.9,126.18,118.7
WAXAHACHIE FM	(. . - -)	FM,176°,27	Dallas

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs. Compass locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LOVE, TEXAS	110.3		140° Mag.	IM	MM ·--- (.70)	OM	- - (4.35)
			360° Mag.		MMK 311 ·--· (.75)	OMK	
MEACHAM, TEXAS				IM	MM	OM	
			173° Mag.		MMK 356 ···-(.70)	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

OKLAHOMA

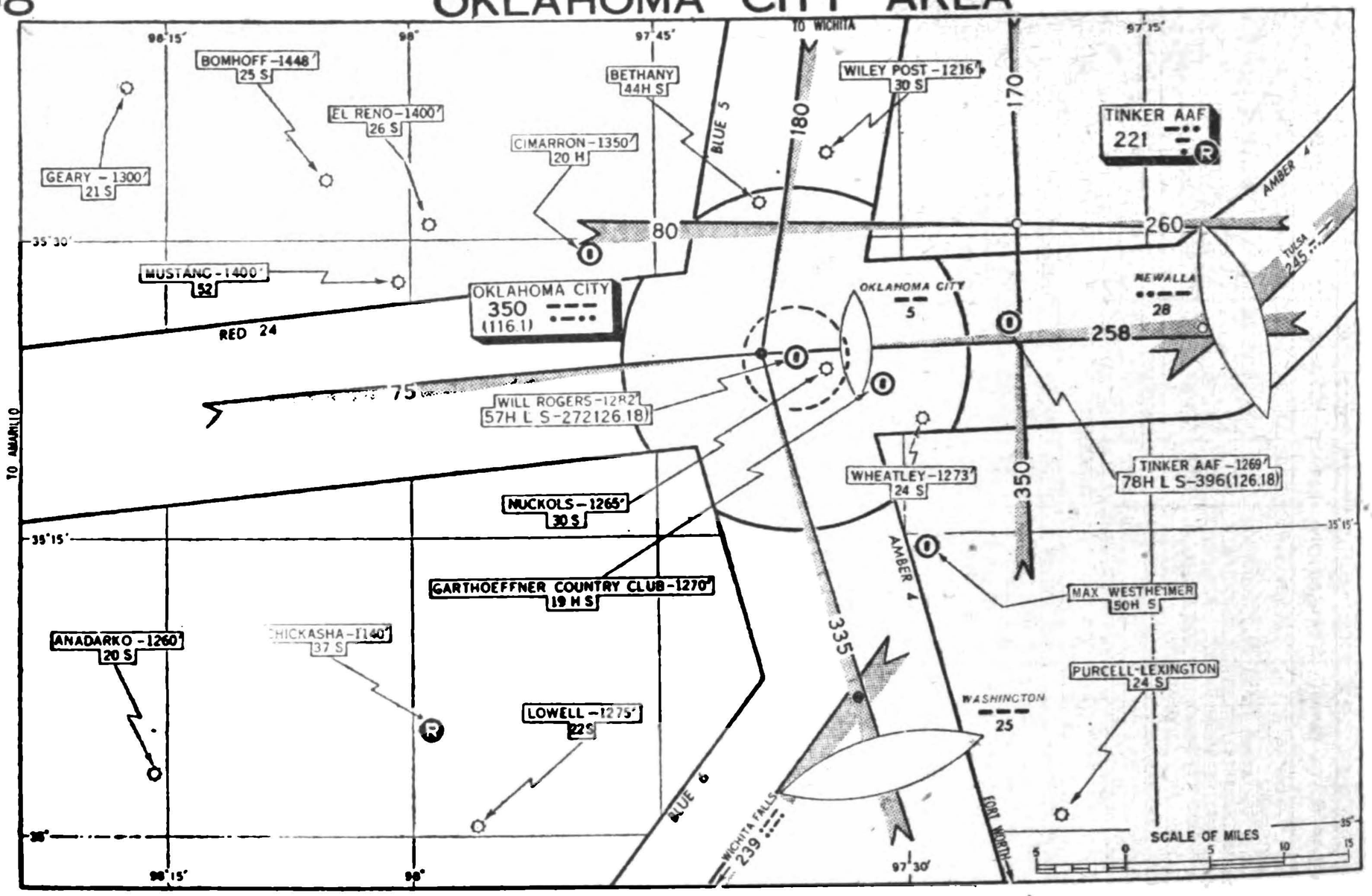
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anadarko	1.5 SW;RR E	1260	20 S1	80 oct.
Bethany (Oklahoma City)	8WNW	1300	44h S6	80,91 oct.Pwr line S.
Bomhoff (Calumet)	4.1 SSE;hwy S	1448	25 S4	73,80,91 oct.
Caddo Flying Ser.(Ft.Cobb)	6 SE;hwy S	1250	16 S2	80 oct.
Chickasha	4 NNW;riv S	1140	37 L S4	80,91 oct.Flood,obst lgts.
Cimarron (Yukon)	4 WSW;hwy N	1350	20h	
El Reno	1.5 SW;RR N	1400	26 S6	80 oct.
Geary	1.4 E;RR N	1300	21 S2	73 oct.
Garthueffner Co. Club (Oklahoma City)	7.3 S;hwy E	1270	19h S6	80 oct.
Lake View (Yukon)(NC)	2.7 E;RR N	1275	24	PRIVATE.Poles N,S.
Lowell (Chickasha)	2 SSE;RR E	1275	22 S2	80 oct.Pole line W.
Max Westheimer (Norman)	2.7 NW;RR E	1178	50h S2	80,91 oct.
Mustang (El Reno)	5.3 SSW	1400	52	
Nuckols (Oklahoma City)	7.2 SSW;hwy W	1265	30 S6	80 oct.Poles N,W,SW.

OKLAHOMA

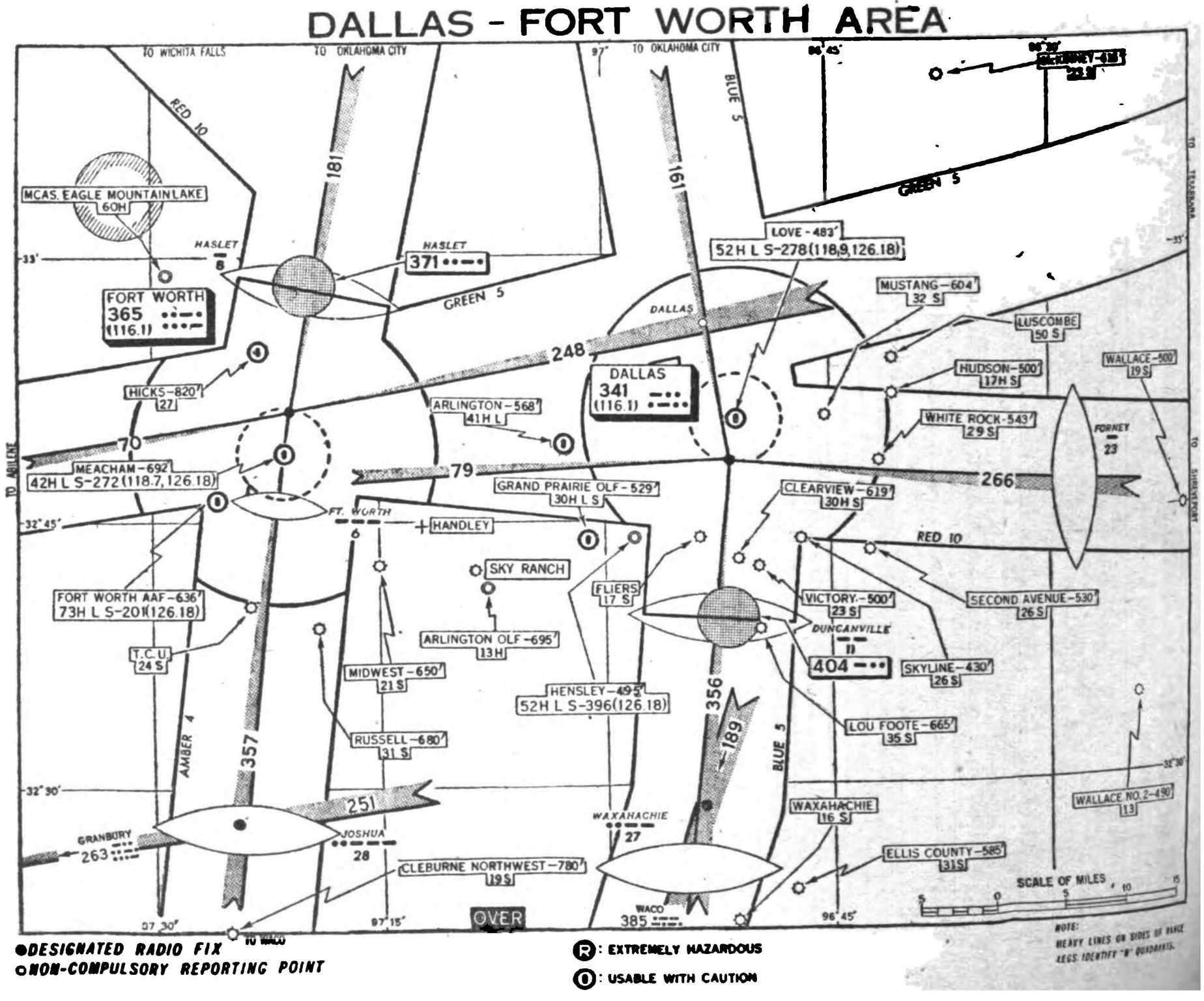
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Purcell-Lexington (Lexington)	0.8 WSW;riv W	1100	24 S2	80 oct.Trees S,SSW,SSE.
(A,N) Tinker (Oklahoma City)	8.5 SE;RR NE	1269	78h R2 L5 S6	62,91,100 oct.JP-1.NAFC. (A)
Wheatley Airpark (Moore)	0.6 NE;hwy W	1273	24 S6	73 oct.
Wiley Post (Oklahoma City)	7.9 NNW;hwy E	1216	30 S6	80,91 oct.Trees S.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.
TEXAS				
(N) Arlington-Midway	6.8 NNE;RR S	568	41h L5	Poles S.
(N) " OLP (N)	4 SSW;rd W	695	13h	
Clearview (Dallas)	5.1 SSW;RR N	619	30h S6	80,91 oct.
Cleburne Northwest	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(N) Eagle Mtn Lake MCAS (Newark) (N)	1 SSE;RR NE	745	60h	INACTIVE.
Ellis Co. (Waxahachie)	3.5 NE;RR S	585	31 S2	73 oct.Pole line S.
Fliers (Dallas)	6.2 WSW;RR W	580	17 S4	80 oct.No sto.Trees S.
(A) Fort Worth AAF (A)	6.8 WNW;lake N	636	73h R1 L5 S6	73,91,100 oct.JP-1.
(N) Grand Prairie OLP (N)	1 WSW;RR N	529	30h L5 S4	73 oct.No bcn.
Handley	0.6 NE;RR S	630	26 S6	73 oct.
(A,N) Hensley (Dallas)(A)(N)	11 WSW;hwy N	495	52h R1 L5 S4	73,91,100 oct.
Hicks (Fort Worth)	12.5 NNW;lk W	820	27	
Hudson (Dallas)	9.6 NE;RR SE	500	17h S6	80,91 oct.Pole line W.
Lou Foote (Dallas)	8.8 S;hwy E	665	35 S6	73,80,91 oct. Bldgs N,NE.
LOVE (Dallas)	5 NNW;RR SW	483	52h R3 L6 S6	73-100 oct. Poles S.
Luscombe (Garland)	2.2 WSW;RR N	610	50 S5	80 oct.No storage.
McKinney	2.1 S;hwy W	616	23 S2	80 oct.Poles E,W.
(P) MEACHAM (Fort Worth)	5.5 NNW;hwy NE	698	42h R2 L6 S6	73,80,91,100 oct.
Midwest (Fort Worth)	5.3 ESE;RR NNE	650	21 S4	80,91 oct.Pole line W,S.
Mustang (Dallas)	6 NNE;hwy NE	604	32 S6	80,91 oct.
(N) Russell (Fort Worth)	7 SSE;RRs E,W	680	31 S6	80,91 oct.
Second Avenue (Dallas)	7 SE;RR N	530	26 S1	73,80 oct.Use strips.Poles S.
Skyline (Dallas)	3.2 SSE;riv E	430	26 S6	80,91 oct. Trees NW.
T. C. U. (Fort Worth)	6.6 SW;RR S	710	24 S6	80,91 oct.
Victory (Dallas)	4.6 S;hwy W	500	23 S6	73,80 oct.No sto.Pole line E.
Wallace (Terrell)	2 W;RR S	500	19 S2	80 oct.
Wallace #2 (Kaufman)	4 W;hwy N	490	13	
Waxahachie	1.5 SSW;hwys E	558	16 S1	73 oct.
White Rock (Dallas)	6.7 ENE;RR NW	543	29 S6	91 oct.
Sky Ranch (Arlington)	3 SW; RR N	590	25 S2	80 oct.

L-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV). (NC)-Not charted. → NEW OR REVISED DATA

OKLAHOMA CITY AREA



DALLAS - FORT WORTH AREA

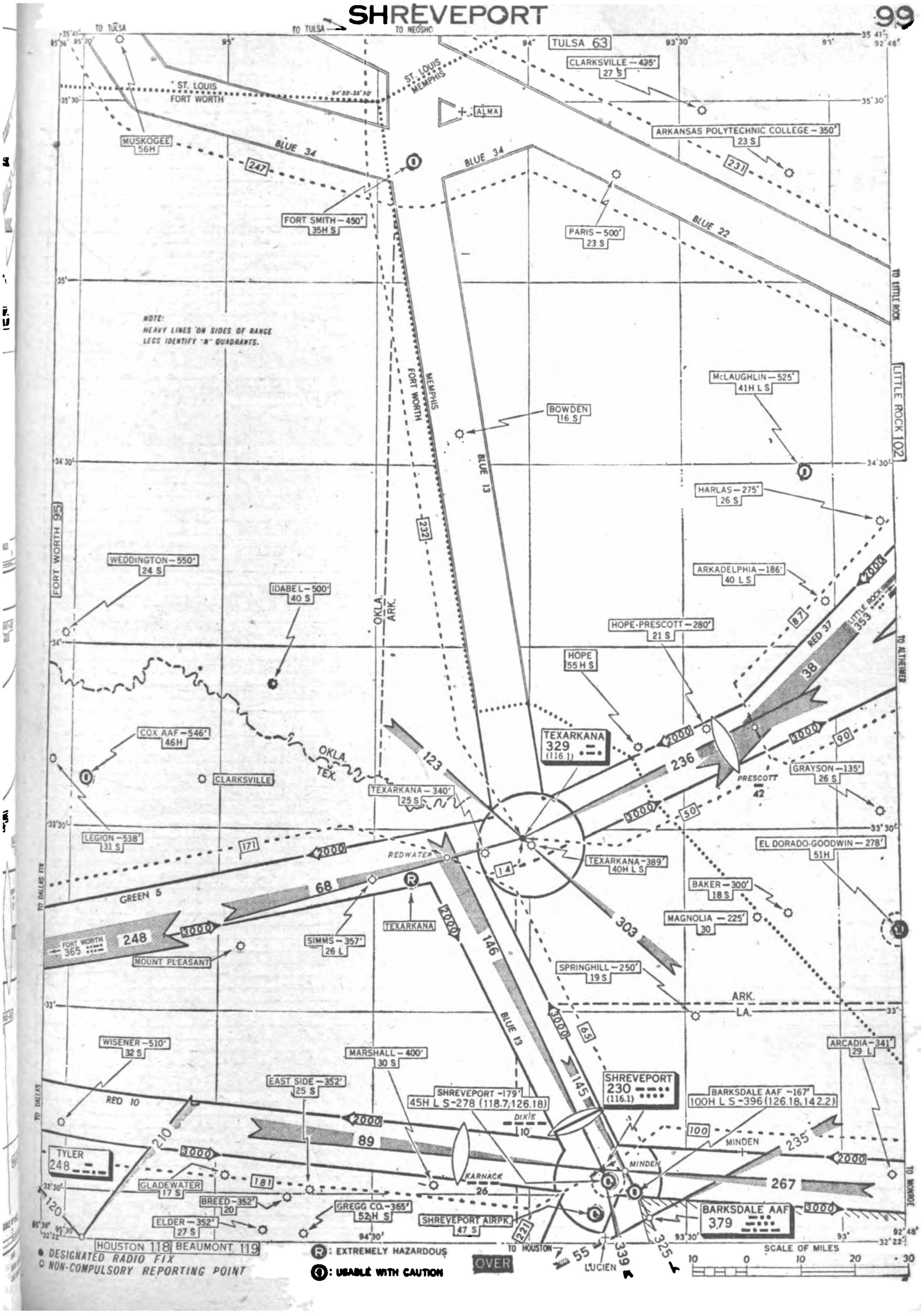


NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

●DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

SHREVEPORT



OVER

RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT FM	(-)	FM, 56°, 42	Texarkana
TEXARKANA	329 (TR)(116.1)	SBRAZ-VDT, 123°, 2	(4); 116.1
LOUISIANA			
BARKSDALE (Shreveport) (Army)	379 (DBY)	SBMRAZ	(3)
Barksdale Field	396 (126.18,142.2)	CA (ILS);325°, 4.4	(3); 126.18,142.2
DIXIE FM	(- - - -)	FM, 326°,10.2	Shreveport
SHREVEPORT	230 (ZH)(116.1)	SBRAZ-VDT	(3); 116.1
Shreveport Airport	278 (126.18)(118.7)	AC; 146°, 1.8	(4); 142.74, 131.9, 118.7, 126.18
TEXAS			
KARNAK FM	(- - -)	FM, 269°,26	Shreveport, La.
TYLER (Pounds)	248 (TQ)	BMRLZ-DT, 120°,1.4	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BARKSDALE, LA.	110.3	335	323° Mag.	IM (.07)	MM (1.00)	OM (4.39)
					MMK	OMK
BARKSDALE, LA.	109.9		143° Mag.	IM (.25)	MM ..... (.64)	OM -- (4.35)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arkadelphia, 24, DL-LV	1.5 ENE; RR N	186	40 L3 S6	80 oct. Pole line N, NW.
Arkansas Polytechnic (Russellville)	1.3 N; hwy W	350	23 S6	73 oct. Pole line SE.
Baker (Magnolia)	4.3 E; hwy S	300	18 S6	80, 91 oct. Pole line SW.
Bowden (Mena)	1 E; RR NW	1177	16 S1	73 oct.
Clarksville	2.5 E; hwy S	425	27 S1	80 oct. Pole line WSW.
(P) El Dorado-Goodwin (El Dorado)	8.6 W; hwy S	278	51h	
FORT SMITH	4 SSE; RR S	450	35h L3 S6	80 oct. 150' stacks W.
Grayson (Camden)	3.4 SW; RR S	135	26 S6	80, 91 oct. No sto.
Greig (Van Buren) (NC)	4.1 E; RR 1.5 N	450	13	
Harlas (Malvern)	2.1 WSW; RR SE	275	26 S1	73 oct. Power line NE.
Hope	5 NNW; RR E	359	55h L3 S6	80,91 oct.Lgts prior req.Use rnwys.
Hope Prescott (Prescott)	3 SW; RR E	280	21 S6	80 oct.
(P) McLaughlin (Hot Springs)	3 SW; RR N	525	41h L5 S6	80 oct. Bldg. twr N.All lgts prior req.Avail army 10' bldg SSW. 0800-1600 week days only.
Magnolia	1.6 WSW; RR E	225	30	
Norman (Ola)	1.8 NNE; hwy E	348	28	Pole line E.
Paris	1.8 NE; RR 1 S	500	23 S1	73 oct. Pole lines W. E. SW.
TEXARKANA	4 NE; RR W	389	40h R1 L5 S6	80, 91, 100 oct.
Alma	1.5 SE		22 S2	80 oct,Data not verified.
LOUISIANA				
★ Arcadia Int, 26 PV-AG	4.5 E; RR S	341	29 L3 S2	No fuel. Pole line SW.
(A) Barksdale (Shreveport)(A)	5.8 E; riv W	167	100hR2 L6 S4	73, 91, 100 oct. JP-1.
Cross Lake (Shreveport)	7 WNW; RR NE	210	40	CAUTION, Date not verified.
Lucien (Shreveport)	7 S	205	31 S4	80 oct. Data not verified.
Minden	1.5 W	200	24 S4	80 oct. Data not verified.
Northeast Aviation (Bastrop)	2 WSW	90	17 S4	80 oct. No sto. Data not verified.
(P) SHREVEPORT	2.5 NNE; riv E	179	45h R2 L5 S6	73, 80 oct.
Springhill	1.2 S; RR E	250	19 S1	73 oct. Pole line E, W.
Shreveport Airpark	4.5 SSW; bet RRs	300	47 S6	80 91 oct. Pole line SE.
OKLAHOMA				
Heavener (NC)	2 N; hwy W	575	27	
Idabel	1.3 NW; RR E	500	40 S2	80 oct.
(P) Muskogee	5.5 S; RR W	610	56h	Hill SW.
Nashoba (NC)	0.8 SE; riv S	625	13	PRIVATE.
Poteau (NC)	1.5 SSW; hwy W	460	15	
Weddington (Hugo)	1.9 NW; hwy SW	550	24 S1	80 oct. Pole line E.
TEXAS				
Breed (Longview)	2 W; RR N	352	20	Pole line around fld.
(A) Cox AAF (Paris)(A)	6.5 ESE; RR N	546	46h	INACTIVE.
East Side (Longview)	2.4 NE; RR S	352	25 S6	80, 91 oct. Pole line S.
Elder (Kilgore)	2.5 NE; RR E	352	27 S6	80, 87, 91 oct. Pole line W.
Gladewater	2 WNW; RR S	550	17 S6	73 oct. No sto. Pole line N, S.
(P) Gregg County (Longview)	7.2 S; riv N	365	52h S1	80, 91 oct.
Holmes (Gilmer)(NC)	4 N; RR W	370	23	Pole line W. Cattle on fld.
Legion (Paris)	1.9 NW; RR E	538	31 S6	80 oct. Pole line E.
Marshall	3.9 SE; hwy N	400	30 S6	73 oct. Pole line N.
★ Simms Int, 14, DL-LV	1 NE; hwy E	357	26 L3	Pole line E, S.
Texarkana	6 W; RR N	340	25 L S6	80, 91 oct.
Wisener (Mineola)	1.5 NW; hwy S	510	32 S2	73 oct.
Clarksville	2.8 NNW;RR SW	480	20 S6	73,80 oct.
Mt.Pleasant	2.8 ENE;RR S	393	20 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADAMS FIELD (Little Rock)	278 (126.18)(118.5)	C	(4); 126.18, 118.5, 131.9, 142.74
BRUINS FM	(- - - -)	FM, 240°, 24	Memphis, Tenn.
LITTLE ROCK (Adams Field)	353 (LI)(116.1)	SBRAZ-VDT, 313°, 3.9	(3); 116.1
STUTTGART (AAF)	269 (DSA)	MRLWZ, 173°, 4.7	
LOUISIANA			
MONROE (Selman)	359 (UO)(116.1)	SBMRLZ-VDT, 25°, 2.8	(4); 116.1
MISSISSIPPI			
FLORA FM	(-)	FM, 356°, 13	Jackson
GREENWOOD	281(GD)(116.1)	BMLZ-VDT, 265°, 1.9	(4); 116.1
JACKSON	260 (JA)(116.1)	SBRAZ-VDT, 173°, 2.4	(3); 116.1
NESBITT FM	(- - -)	FM, 179°, 9.9	Memphis, Tenn.
VICKSBURG	382 (VS)(116.1)	MRVT	(4); 116.1
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis.

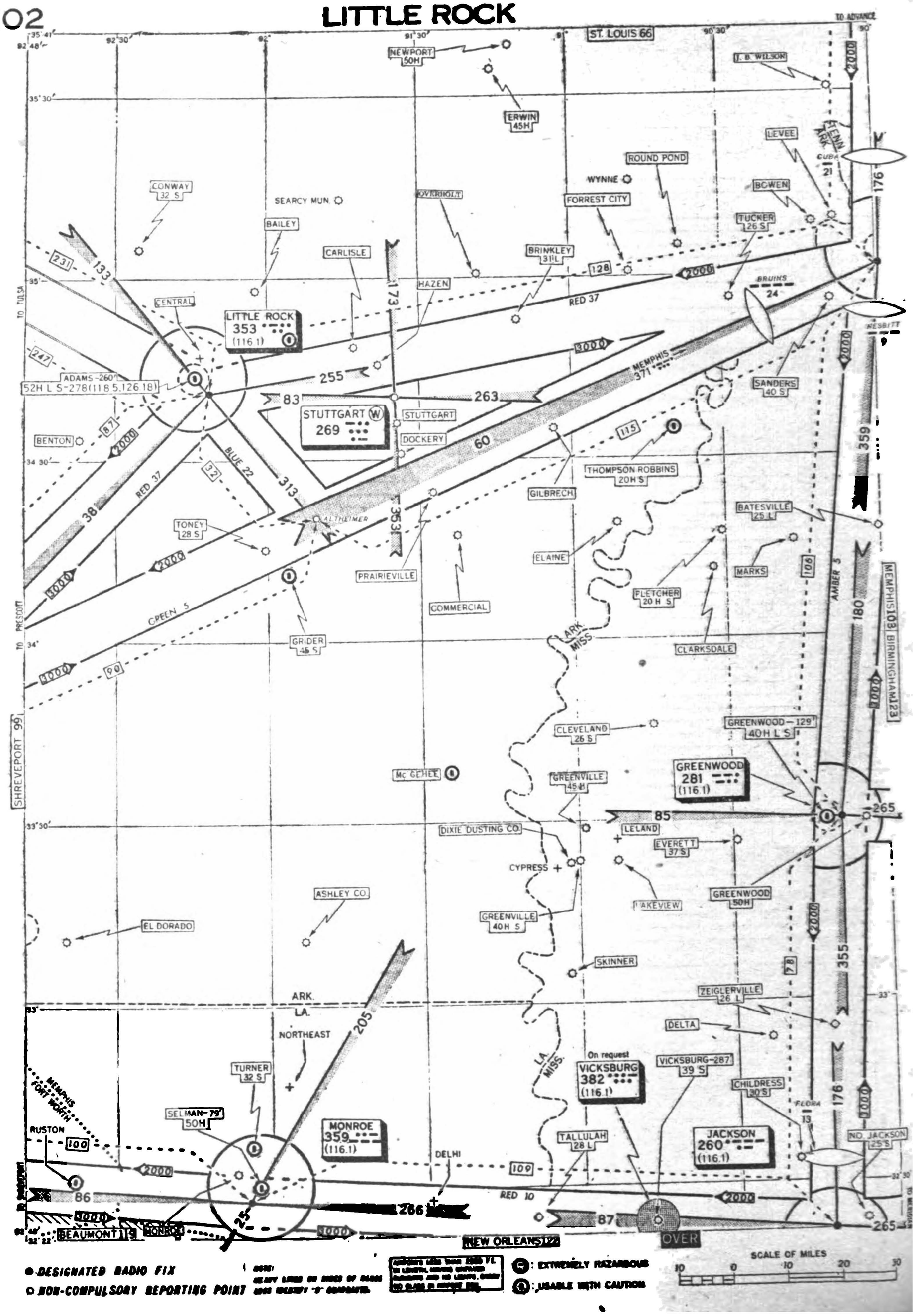
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

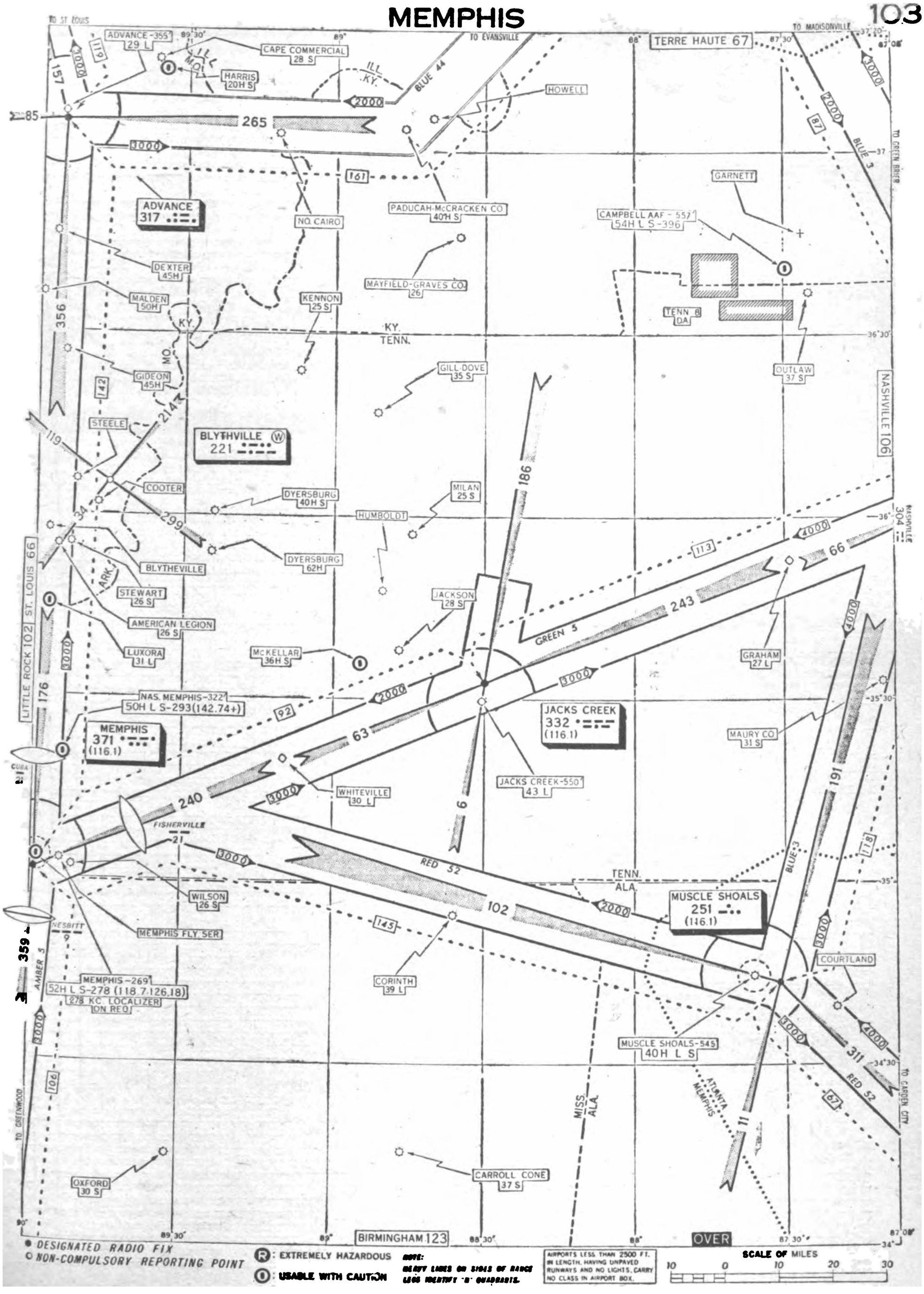
AIRPORTS — ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ADAMS (Little Rock)	4 E; RR W	260	52h R2 L5 S6	80,91 oct; 73,130,JP-1 mil acft.
Ashley Co. (Crossett)	5.5 NE; RR E	160	21 S1	Ltd 80 oct. Obsts surround fld.
Bailey (Cabot)	0.5 W; RR E	270	16 S1	80 oct. Trees sur fld.
Benton	1.6 W; RR S	300	20 S6	80 oct. Poles S.
Bowen (West Memphis)	1.5 W; hwy N	215	17 L S6	80 oct. Flood lgts. Poles SE.
Brinkley, 37, DL-LV	1 E; RR N	188	31 L3	Obst NW.
Carlisle (Stuttgart)	25 NW; RR S	236	45h	
Commercial (De Witt)	2.4 W; RR N	196	24 S4	80 oct. Pole line E.
Conway	1.5 SE; hwy W	309	32 S6	80 oct.
Dockery (Stuttgart)	1.5 NNW	214	24 S2	73, 80 oct. Pole line N, S, E.
Elaine	1.3 N; RR E	170	18 S2	80 oct. Trees S, SE.
EL DORADO	1.5 S; RR W	265	24 S4	80 oct.
Erwin (Newport)	2.5 SSE	220	45h	
Forrest City	0.7 W; hwy SE	226	22 S2	80 oct. Bldg S.
Gilbreen (Palmer)	0.2 NE; RR S	178	17 S2	80 oct. N/S strip rough. Poles W.
Grider (Pine Bluff)	5.5 SE; hwy N	210	45 S6	73, 80 oct.
Hazen (Stuttgart)	18.7 NNW; RR N	225	45h	
J. B. Wilson (Joiner)	0.5 ENE; hwy W	225	15	Trees NE.
Levee (West Memphis)	2.4 E; RR N	215	24 S4	Ltd 73 oct. Pole line N, S.
Newport	6 ENE; hwy N	237	50h	
Overhold (Cotton Plant)	3 W; RR NE	250	18 S1	Ltd 80 oct.
Prairieville (Stuttgart)	8.2 SE	205	45h	
Round Pond	1.5 NNW; hwy N	200	22 S2	80 oct.
Searcy	2.8 S; RR E	260	14 S1	80 oct. Pole line NE, SE.
Stuttgart	7 N; RR E	230	50h	
Thompson-Robbins (Helena)	6 NW; RR S	242	20h S6	73, 80 oct.
Tony (Pine Bluff)	2.5 N; hwy W	215	28 S2	73, 80 oct. Twr NW lgtd.
Tucker (Hughes)	1.1 S; RR W	205	26 S2	80 oct.
Wright (Monticello)	1 ENE; hwy S	230	15	Pole line S.
Wynne	3.2 N; RR E	212	17 S2	80 oct. Pole line E, SE.
Central (Little Rock)	4.5 NE; RR S	255	35 S4	80 oct. Trees W. Data not verified.
McGehee	0.6 NW; RR, hwy E	145	30 S1	80 oct.
LOUISIANA				
Delhi Flying Service	0.5 N	95	23 S4	80 oct. Pole line E. Data not verified.
Monroe Airpark	2.5 N; riv W	77	20 S4	73 oct.
Ruston	1 SW	320	15h S4	80 oct. Data not verified.
SELMAN (Monroe)	4.6 E; RR W	79	50h R1	
★ Tallulah Int, 36, FV-AG	2.4 ENE; RR S	84	28 L3	Beacon S.
Turner (Monroe)	9.5 NNE; RR E	85	32 S4	91, 80 oct. Pole line E.
MISSISSIPPI				
Augustine (Jackson)(NC)	11.5 NE; riv SE	335	40	
★ Batesville Int, 29, ND-LS	3 W; hwy SE	205	25 L3	Poles N, lgtd.
Canton (NC)	1.4 WNW; RR E	300	38	Tank E.
Chilcress (Flora)	1.5 NNW; RR E	186	30 S1	73 oct. Trees, bldg N.
Clarksdale	1.5 SE; hwy NW	175	22 S6	73 oct. Use strips only
Cleveland	2 NW; hwy S	400	26 S6	73 oct.
Cole (Heads) (NC)	3 NE; RR W	118	16	
Cypress (Greenville)	1.5 SSW; lake E	120	28 S1	80 oct. Data not verified.
Delta (Yazoo)	3.3 NNE; RR SE	115	21 S1	73 oct. Pole line N
Dixie Dusting Co. (Greenville)	2 SE; RR, hwy N	118	16 S4	73 oct. No sto.
Everett (Moorhead)	1 SE; RR N	127	37 S6	73 oct. No sto.
Fletcher (Clarksdale)	8 NNE; RR W	175	20h S6	80,91 oct.
Greenville, mun	3.5 ESE; hwy N	118	40h S1	80,91 oct.
Greenville	6.5 NE; road W	131	45h	
GREENWOOD, mun.	2.3 SW; RR SE	129	40h R1 L5 S2	73, 80 oct. Pole line E, SE.
Greenwood	5.8 ESE; hwy N	162	50h	
Lakeview Airpark (Leland)	1.7 SE; lake E	120	18 S4	73 oct. No sto. Data unverified.
Marks	1.5 NW; hwy N	106	22 S1	73 oct.
North Jackson Airpark (Jackson)	7.5 NE; hwy E	300	25 S4	80 oct. No sto. Trees S.
Sanders (Walls)	1.8 S; hwy NW	210	40 S6	73, 80 oct. Trees E.
Skinner (Glen Allan)	4 N; lake W	110	18 S1	73 oct.
Vicksburg	6.8 NE; hwy W	287	39 R1 S4	80, 91 oct.
★ Zeigler-ville Int, 19, ND-LS	3 SW; riv N	248	26 L2	Twr SE. Trees E, S, SE.
Leland	3 NNE		23 S4	80 oct. No sto. Pwr line NW. Data not verified

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

LITTLE ROCK


ST. LOUIS 66
TO ADVANCE
NEWPORT 50H
ERWIN 45H
J. B. WILSON
LEVEE
ROUND POND
WYNNE
CONWAY 32 S
SEARCY MUN.
OVERHOLT
FORREST CITY
BOWEN
TUCKER 26 S
BAILEY
CARLISLE
BRINKLEY 31 L
HAZEN
RED 37
BRUINS 24
CENTRAL
LITTLE ROCK 353 (116.1)
ADAMS-260°
52H L S-278(118.5,126.18)
STUTTGART 269
STUTTGART
DOCKERY
MEMPHIS 371
SANDERS 40 S
BENTON
BLUE 22
RED 37
ALTHEIMER
THOMPSON ROBBINS 20H S
GILBRECH
BATESVILLE 25 L
TONEY 28 S
PRAIRIEVILLE
COMMERCIAL
ELAINE
MARKS
FLETCHER 20 H S
CLARKSDALE
GRIDER 45 S
CLEVELAND 26 S
GREENWOOD — 129° 40H L S
GREENWOOD 281 (116.1)
MC GEHEE
GREENVILLE 45H
DIXIE DUSTING CO.
LELAND
EVERETT 37 S
CYPRESS
LAKEVIEW
GREENWOOD 50H
ASHLEY CO.
EL DORADO
GREENVILLE 40H S
SKINNER
ZEIGLERVILLE 26 L
ARK. LA.
NORTHEAST
DELTA
On request
VICKSBURG 382 (116.1)
VICKSBURG-287 39 S
TURNER 32 S
CHILDRESS 30 S
MEMPHIS FORT WORTH
SELMAN-79 50H
RUSTON
MONROE 359 (116.1)
TALLULAH 28 L
JACKSON 260 (116.1)
NO. JACKSON 25 S
DELHI
RED 10
BEAUMONT 119
MONROE
NEW ORLEANS 122
OVER
TO PRESCOTT
TO TULSA
SHREVEPORT 99
MEMPHIS 103 BIRMINGHAM 123
ARK MISS
LA MISS
AMBER 3
ESTILL
CUBA
WESBITT
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
E: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30


TO ST LOUIS
ADVANCE - 355
29 L
CAPE COMMERCIAL
28 S
HARRIS
20H S
ILL.
MO.
ILL.
KY.
BLUE 44
TO EVANSVILLE
HOWELL
TERRE HAUTE 67
TO MADISONVILLE
157
119
3000
85
265
2000
87
BLUE 3
TO GREEN BRIER
3000
161
ADVANCE
317
NO. CAIRO
PADUCAH-McCRACKEN CO
40H S
GARNETT
CAMPBELL AAF - 557
54H L S-396
DEXTER
45H
MAYFIELD-GRAVES CO.
26
MALDEN
50H
KENNON
25 S
KY.
TENN.
TENN 8
DA
356
KY.
MO.
GILL-DOVE
35 S
OUTLAW
37 S
NASHVILLE 106
142
GIDEON
45H
214
STEELE
119
BLYTHVILLE
221
COOTER
DYERSBURG
40H S
MILAN
25 S
186
34
299
HUMBOLDT
304
DYERSBURG
62H
BLYTHEVILLE
ARK.
LITTLE ROCK 102
ST. LOUIS 66
STEWART
26 S
JACKSON
28 S
113
4000
66
AMERICAN LEGION
26 S
243
GREEN 3
LUXORA
31 L
MCKELLAR
36H S
GRAHAM
27 L
3000
2000
NAS. MEMPHIS-322
50H L S-293(142.74+)
176
92
JACKS CREEK
332
(116.1)
MEMPHIS
371
(116.1)
63
MAURY CO
31 S
WHITEVILLE
30 L
JACKS CREEK-550
43 L
240
6
191
FISHERVILLE
21
RED 52
TENN.
ALA.
BLUE 3
118
MUSCLE SHOALS
251
(116.1)
WILSON
26 S
NESBITT
9
MEMPHIS FLY SER
145
102
COURTLAND
359
AMBER 3
CORINTH
39 L
MEMPHIS-269
52H L S-278 (118.7-126.18)
278 KC LOCALIZER
ON REQ
MUSCLE SHOALS-545
40H L S
311
RED 52
TO GREENWOOD
106
MISS.
ALA.
ATLANTA
MEMPHIS
11
67
OXFORD
30 S
CARROLL CONE
37 S
BIRMINGHAM 123
OVER
TO CANTON CITY
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
MUSCLE SHOALS	251 (MD)(116.1)	SBRAZ-VDT, 282°, 4.5	(4); 116.1
ARKANSAS			
BLYTHEVILLE	221 (LY)	RLWZ, 225°, 13.6	
KENTUCKY			
CAMPBELL AAF (Hopkinsville)	396	CA	(3) (8-17)
MISSISSIPPI			
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
MISSOURI			
ADVANCE (Int.)	317 (AP)	SBRAZ-DT, 354°, 1.5	(4)
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis
FISHERVILLE FM	(- -)	FM, 60°, 20.5	Memphis
→ JACKS CREEK (Int.)	332 (JK)(116.1)	BMRLZ-VDT, 186°, 2.62	(4); 116.1
MEMPHIS	371 (PS)(116.1)	SBRAZ-VDT.	(3); 116.1
Memphis Airport	278 (126.18)(118.7)	AC: 356°, 2.1	(4); 131.9, 126.18, 118.7
Memphis Airport	278	MLW	(On request only)
Memphis NAS	293 (142.74)	CN	3105; 142.74 (6-24)

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Courtland	1.5 SW; RR N	587	50h	
Muscle Shoals	1.5 E; dam NNW	545	40h R1 L5 S6	80, 91 oct.
ARKANSAS				
American Legion (Blytheville)	1.5 ESE; RR N	260	26 S6	80 oct. Pole line N. W. Stack E.
Cooter (Blytheville)	10 NE	260	40h	
★ Luxora Int, 39, NO-LS	1 WNW; hwy S	240	31 L2	
Steele (Blytheville)	12.3 N	258	40h	
Stewart (Blytheville)	2.2 E; RR S	254	26 S2	80 oct.
Blytheville	3 NW; RR SW	254	50h	
ILLINOIS				
North Cairo (Cairo)	3 NNW; RR E	312	24 S4	73 oct.
KENTUCKY				
(A) Campbell AAF (Hopkinsville)(A)	12.8 S; RR E	557	54h R1 L5 S4	73,100 oct.
Garnett (Hopkinsville)	6 SSE; hwy W		23 S1	80 oct. Data not verified.
Howell (Paducah)	4 WNW; RR S	371	21 S6	80 oct.
Mayfield-Graves County	3.6 ENE; hwy S	543	26	
PADUCAH-McCRACKEN CO. (Paducah)	8.8 W; RR N	405	40h S6	80, 91 oct. No sto.
MISSISSIPPI				
Carroll Cone (Tupelo)	3 W; hwy S	278	37 S1	80 oct.
Corinth 7, PS-TM	5 WSW; hwy N	418	39 L3	
Oxford	8 S; riv N, W	400	30 S2	73 oct.
MISSOURI				
★ Advance Int, 48, NO-LS	0.8 WSW; RR S	355	29 R1 L3	
Cape Commercial (Cape Girardeau)	4.8 SW; RR S	340	28 S6	80,91 oct. 8' dike S.
Dexter (Malden)	12.5 NNE	315	45h	
Harris (Cape Girardeau)	6.5 SSW; hwy E	340	20h S6	80, 91 oct.
Harvey Parks (Sikeston)	2 NE; RR S	315	66	Pole line W. Allway area.
Malden	3.5 NW; RR E	296	50h	
Gideon (Malden)	1 SE of Gideon	268	45h	
TENNESSEE				
Dyersburg	9 S; RR E	289	62h	
Dyersburg, mun.	2 SW; riv N	337	50h S4	80 oct. No sto.
Embry Riddle (Union City)	5 ESE; riv WNW	340	18h	Allway: 4620 x 3960'.
Gill-Dove (Martin)	3.5 S; hwy E	416	35 S6	80 oct.
★ Graham Int, 59, DL-LV	1.5 NW; hwy E	536	27 L3	
Humboldt	4.6 ESE; hwy W	380	15 S1	80 oct.
★ Jacks Creek Int, 53, DL-LV	2 N; hwy E	550	43 R1 L3	
Jackson	2.5 ENE; hwy NW	450	28 S6	80 oct.
Kennon (Union City)	3.2 WSW; hwy N	350	25 S6	80 oct. No sto. Pole line N.
(P) McKellar (Jackson)	5.8 W; RR S	410	36h S6	80 oct.
Maury County (Mt. Pleasant)	2.5 ENE; RR SW	672	31 S2	80 oct. Pole line NW.
(A) MEMPHIS	5.9 SSE; RR NE	269	52h R2 L6 S6	73, 91, 100 oct. JP-1. Radio required.
Memphis Flying Service (Memphis)	11 SE; RR 3 NW	286	35 L4 S6	80,91 oct. Pole line S. No ben. Lgts prior req.
(N) Memphis NAS (N)	16 NNE; RR NW	322	50h R1 L5 S6	91, 100 oct. NATS. Rnyw, lgtg info not ver.
Milan	2.8 NNE; RR SE	421	25 S5	80, 91 oct.
Outlaw (Clarksville)	7.4 NNW; RR W	550	37 S5	80 oct.
Wilson (Memphis)	11.5 SE; hwy W	320	26 S6	73 oct.
★ Whiteville Int, 49, DL-LV	0.6 NNW; RR E	494	30 L3	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

NASHVILLE

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GARDEN CITY FM	(. . -)	FM, 358°, 28	Birmingham
		KENTUCKY	
BOWLING GREEN	368 (BA)	SBMRAZ-DT, 296°, 3.8	(4)
		TENNESSEE	
→ BERRY FIELD (Nashville)	278(118.3,126.18)	AC (ILS)	(4):126.18,118.3,131.9
CHATTANOOGA	341 (CB)(116.1)	SBRAZ-VDT	(4):116.1
Chattanooga-Lovell Field	278	C, 203°, 3	(4)
FAIRVIEW FM	(- - -)	FM, 246°, 28	Nashville
GREEN BRIER FM	(- - - -)	FM, 331°, 23	Nashville
KINGSTON FM	(- - - -)	FM, 276°, 27.5	Knoxville
NASHVILLE (Berry)	304 (NA)	SBRAZ-DT, 246°, 2.6	(3)
→ SMITHVILLE (Int)	347 (XM)(116.1)	SBMRAZ-VDT, 177°, 1.4	(4):116.1
SMYRNA AAF (Nashville)	219 (126.18)	CA (ILS)	(3):126.18
WALTERHILL FM	(- -)	FM, 129°, 19.6	Nashville

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BERRY, TENN.	109.9		14° Mag.	IM (.15)	MM (.81)	OM (4.17)
					MMK	OMK
SMYRNA AAF, TENN.	109.5	335	230° Mag.	IM (.04)	MM ..... (.81)	OM -- (4.31)
					MMK	OMK

S-Simultaneous Range and Voice. W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertville	1 NW;RR NE	1063	15 S1	80 oct.
Athens	3.2 NNW;hwy E	690	26 S2	80 oct. Lgt acft only.
Beaver Dam (Decatur)(NC)	7 E;RR W	580	20	
Centre (NC)	0.6 NNW;RR E	720	23	
Cullman	5 SSE;RR E	740	15 S2	73 oct.
Decatur	4 WNW;hwy N	577	19	Pwr line N.
Gadsden	1.9 SW;hwy N	540	20 S2	80 oct. Fld rough.
Guntersville Dam (NC)	9.1 NW;hwy E	600	30	
Hartselle	1 WSW;hwy N	588	18	
HUNTSVILLE	3.1 S;RR E	610	40h S1	80 oct.
(A) Arsenal (A)	7 SW;RR NW	677	56h	
North Sauty Base (Scottsboro)	3.2 SSW;RR NNE	610	20 S1	80 oct.
Pryor (Decatur)	4 NNE;hwy W	588	46 S4	80,91 oct.

GEORGIA

Cedartown	1 W;road S	850	25 S4	80 oct. Pole lines N,W; hill SW.
Clevenger's Airpark (Marietta)	5 NE;RR W	1080	14 S4	Ltd 80 oct. No storage.
Dalton	5.7 ESE	700	22 S1	80 oct.
Pelton (Cartersville)	2.5 N	790	23	Hills S,W,N; wires E,W.
Jasper	1 N;RR W	1935	17 S2	80 oct.
La Fayette-Trion (Trion)	3 NNE;RR W	722	21 S1	80 oct. Hwy E.
Rockmart	2 ENE;RR W	800	20 S1	80 oct. Pole line W.
Rome	3 NW;RR S	669	25 S6	80 oct. No storage.
(P) Russell (Rome)	7 N;hwy W	644	45h	

KENTUCKY

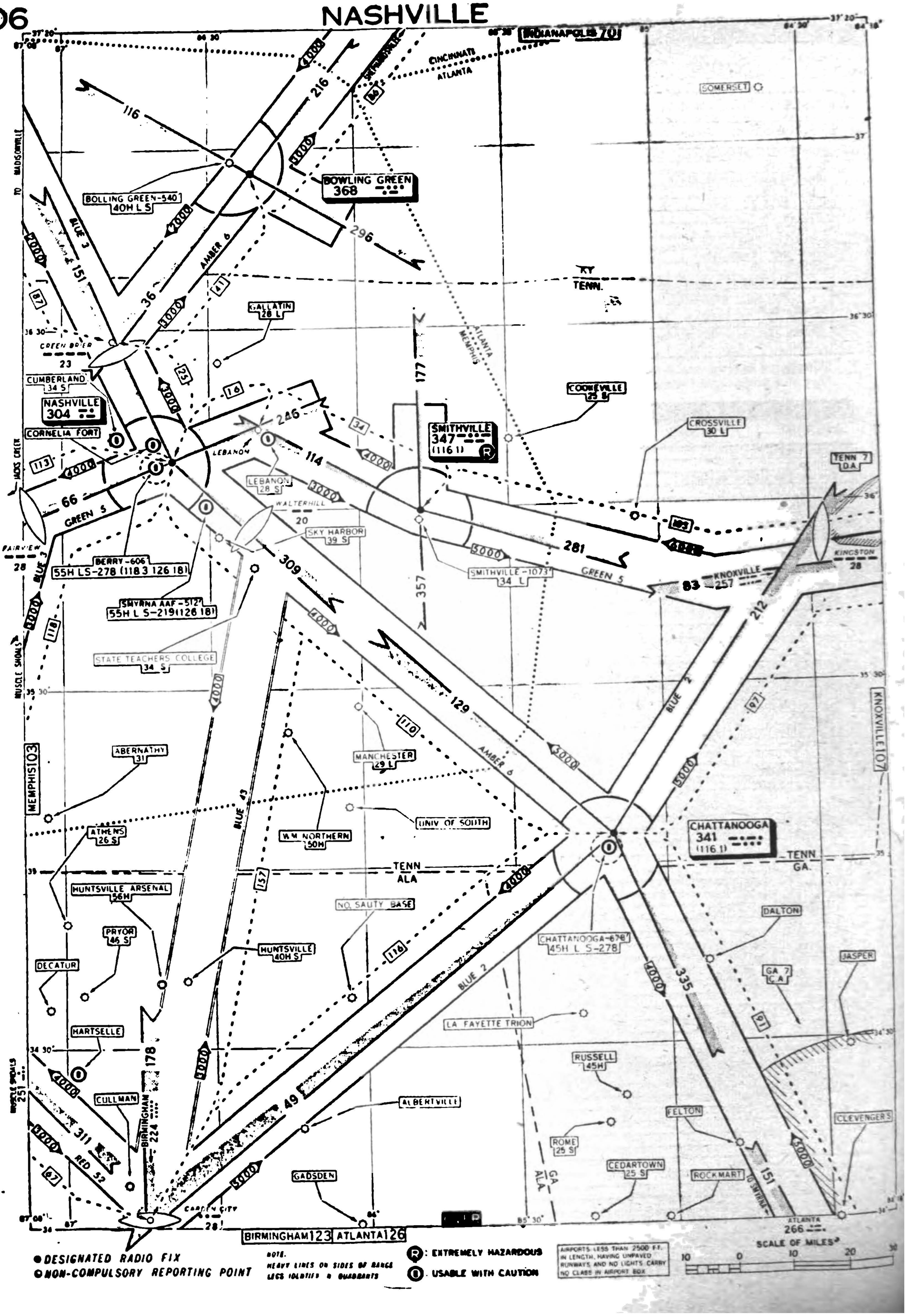
(P) Bowling Green	2.5 SSE;hwy W	540	40h R1 L5 S4	80,91 oct.No sto.Fld lgts prior req.
Somerset	5 N; RR W		20 S2	80 oct. Data not verified.

TENNESSEE

Abernathy (Pulaski)	3.6 SSW;hwy NE	650	31 S1	80 oct. Trees E.
→ BERRY (Nashville)	6 SE;hwy S	606	55h R3 L6 S6	73,100 oct.
Boyd (McMinnville)(NC)	4.6 SW;RR N	1000	20	
CHATTANOOGA	5.5 E;RR E	678	45h R2 L5 S6	80,91 oct.
Cookeville	1.5 NNE;RR N	1050	25 S4	80 oct. Sto in emerg. Poles W.
Cornelia Fort (Nashville)	4 ENE;riv E	420	30 S6	80 oct. Data not verified.
Crossville,9,NA-WA	3.3 WNW;hwy S	1862	30 L3	
Cumberland (Nashville)	3 NNW;riv N	400	34 S6	80 oct. No storage.
★ Gallatin Int,66,DL-LV	1.5 NW;hwy NE	557	28 L3	
Lebanon	1.8 SW;hwy E	522	28 S6	73 oct. No storage.
★ Manchester Int,16A,AC-WA	4.5 ESE;hwy SW	1090	29 L3	53' trees. W,N.
Sky Harbor (Murfreesboro)	7.3 NW;hwy SW	560	39 S6	73 oct. No storage. Poles NE.
★ Smithville Int,5,NA-WA	1 E;road S	1073	34 R1 L3	
(A) Smyrna AAF (Nashville)(A)	17 SE;RR SW	512	55h R3 L5 S6	73,91,100 oct. JP-1. No rng.
State Teachers College(Murfreesboro)	2 E;hwy N	600	34 S4	80 oct. No storage. Poles N.
University of South (Cowan)	1.8 WNW;RR NE	870	23 S2	80 oct.
William Northern (Tullahoma)	2 WNW;road S	1081	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiv) (NC)-Not charted. → NEW OR REVISED DATA

NASHVILLE


INDIANAPOLIS 701
CINCINNATI
ATLANTA
SOMERSET
BOWLING GREEN
368
BOLLING GREEN-540
40H L S
TO MADISONVILLE
BLUE 3
AMBER 6
GALLATIN
28 L
KY
TENN.
ATLANTA
MEMPHIS
GREEN BRIER
23
CUMBERLAND
34 S
NASHVILLE
304
CORNELIA FORT
LEBANON
SMITHVILLE
347
(116 1)
COOKEVILLE
28 L
CROSSVILLE
30 L
TENN 7
D.A.
HICKS CREEK
WALTERHILL
20
LEBANON
28 S
SKY HARBOR
39 S
FAIRVIEW
28
GREEN 5
BERRY-606
55H LS-278 (118 3 126 18)
SMYRNA AAF-512
55H L S-219(126 18)
SMITHVILLE-1073
34 L
KINGSTON
28
KNOXVILLE
83 257
MUSCLE SHOALS
STATE TEACHERS COLLEGE
34 S
MEMPHIS 103
ABERNATHY
31
MANCHESTER
29 L
ATHENS
26 S
WM NORTHERN
50H
UNIV OF SOUTH
BLUE 43
TENN
ALA
HUNTSVILLE ARSENAL
56H
NO. SAUTY BASE
PRYOR
46 S
HUNTSVILLE
40H S
DECATUR
HARTSELLE
CULLMAN
BIRMINGHAM
224
RED 52
ALBERTVILLE
GADSDEN
CAMDEN CITY
28
CHATTANOOGA
341
(116 1)
TENN
GA.
CHATTANOOGA-678
45H L S-278
DALTON
KNOXVILLE 107
LA FAYETTE TRION
RUSSELL
45H
ROME
25 S
CEDARTOWN
25 S
ROCKMART
FELTON
CLEVENGER S
GA 7
C A
JASPER
TO ATLANTA
ATLANTA
266
BIRMINGHAM 123 ATLANTA 126
116
216
296
151
36
177
246
114
66
309
357
281
212
129
49
311
178
335
97
91
85
110
118
113
16
25
34
67
83
87
4000
5000
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE.
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFIES A QUADRANTS
R : EXTREMELY HAZARDOUS
O : USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS IN AIRPORT BOX

KNOXVILLE

ALL FACILITIES IN ATLANTA FLIGHT ADVISORY AREA

COLUMBUS 71

TO CINCINNATI

TO CHARLESTON

PAYNESVILLE 356

JODY 25 S

RICHLANDS

POWELL VALLEY 25 S

MIDDLESBORO 26 S

KY

VA

TENN.

TRI-CITY-1518' 45H L S

TRI-CITY 221 (116.1)

CHILHOWIE 34 L S

CHILHOWIE 43

TO PULASKI

MORRISTOWN

W. JEFFERSON

CHARLOTTE 110

TENN 7 GA

ISLAND 35 S

PIEDMONT 28

GREEN 5

TENN N CAR

MORGANTON

FRANCIS MARION

BLACK MT

JOSEPHSON

KNOXVILLE-988' 50H L S-278 (118.7, 126.18) 278 KC LOCALIZER ON REQ

KNOXVILLE 257 (116.1)

TO SMITHVILLE

ASHEVILLE HENDERSONVILLE 40H L S

TALLASSEE 23

SYLVA 25

RUTHERFORD

BYERS

HENDERSONVILLE 30 S

TO MOORESVILLE

NASHVILLE 106

FRANKLIN

FAIRFOREST

GREENVILLE 281 (116.1)

PARIS MT

N CAR

GA

S. CAR

GREENVILLE-1015' 42H L S

LE TOURNEAU 30 L S

MEMORIAL-804' 44H L S-317 (118.7, 126.18)

GREENVILLE AAB-942' 55H L S-272 (126.18)

SPARTANBURG 248

GA 7 CA

BARKSDALL 30 S

RIVERBEND

ANDERSON-783' 50H L S

GAINESVILLE 40H

CRAWFORD W. LONG 27 S

GREEN 6

ATLANTA 266

ANDERSON 236 (116.1) On request

CORONACA 50H

WINDER 30 L

BENTLEY

ALLEN

ELBERTON

GREENWOOD

TO BOLD SPRING

ATLANTA 126 SAVANNAH 131

OVER

● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

(R) : EXTREMELY HAZARDOUS

(O) : USABLE WITH CAUTION

NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 8 QUADRANTS

AIRPORTS LESS THAN 2500 FT IN LENGTH HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS OR AIRPORT BDY

SCALE OF MILES
10 0 10 20 30

RADIO

SOUTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANDERSON	236 (AS)(116.1)	MHVT	(4); 116.1
GREENVILLE	281 (GC)(116.1)	BMLZ-VDT, 2°, 2	(4); 116.1
Greenville AAB	272 (126.18)	CA	(3); 126.18
→ MEMORIAL AIRPORT (Spartanburg)	317 (126.18)	C	(4);118.7,126.18,131.9
SPARTANBURG (Memorial Arpt)	248 (SU)	SBRAZ-DT,58°,1.6	(3)

TENNESSEE

KNOXVILLE	257 (KX)(116.1)	SBRAZ-VDT	(3); 116.1
Knoxville Airport	278 (126.18)	C; 192°, 2.9	(4);142.74,131.9,118.7,126.18
Knoxville Airport	278	(Low powered range)	(4)(on req)
PIEDMONT FM	(- -)	FM, 66°, 28	Knoxville
TALLASSEE FM	(- - -)	FM, 192°, 23	Knoxville
TRI-CITY	221 (TI)(116.1)	SBMRAZ-VDT,252°, 3.3	(4), 116.1

VIRGINIA

CHILHOWIE FM	(-)	FM, 65°, 43	Tri City, Tenn.

WEST VIRGINIA

PAYNESVILLE	356 (IR)	H	Operated by P.C.A.(6-23)

S-Simultaneous Range and Voice. W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Buford)	1.5 S,hwy SW	1070	15 S1	80 oct. Pole line SW.
Crawford W. Long (Jefferson)	2.5 S,RR E	950	27 L1 S1	80 oct. Pole line SE.
Elberton	2 SE,hwy W,N	710	16 S1	80 oct. Obst sur fld.
Gainesville	1.5 S,RR E,NW	1277	40h	
Le Tourneau (Toccoa)	2.5 NE,RR S	950	30 L3 S4	80, 91 oct.
Riverbend(Gainesville)	4.5 N, in bend of river	1200	17 S1	80 oct.Steep grade NNW end.
★ Winder Int,4,AG-LG	1.5 NE,bet rds	950	30 L3	Trees, bldg N.

KENTUCKY

Jody (London)	3 S,hwy E	1240	25 S2	80 oct.
Middlesboro	1.2 W,hwy S	1150	26 S4	80 oct.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ASHEVILLE-HENDERSONVILLE (Ashev'l)	11.5 SSE,RR W	2090	40h L5 S4	73, 80, 91, 100 oct.
Black Mountain	1.8 SW,RR N	2270	15 S1	80 oct. Soft.
Byers (Shelby)	3 SE,RR SW	875	16 S1	80 oct.
Francis Marion (Marion)	2.5 NE,RR NE	1450	19 S4	80,91 oct.
Franklin	1.2 ESE,riv W	1996	23 S2	80 oct.
Hendersonville	1.5 ESE,hwy SW	2200	30 S6	80, 91 oct.
Josephson (Asheville)	3 W,riv E	2200	20 S1	Ltd 80 oct. Trees NW,SE.
Morganton	2 NW,riv E	1024	16 S2	80 oct.
Morganton-Lenoir (Morganton) (NC)	7.5 NE	1253	33 S2	No fuel.
Rutherford(Spindale)	1.5 SSE,RR N	1012	17 S2	80 oct.
Sylva	2.4 NE,riv SW	2039	25 S2	No fuel.
West Jefferson	2 SSW,RR NNE	3200	16 S2	80 oct.

SOUTH CAROLINA

Anderson	4.5 WSW,hwy S	783	50h R1 L5 S6	80, 91 oct.
Barksdale (Laurens)	2.8 E,RR NE	700	30 S6	73 oct. Pole line NE.
Bentley (Calhoun Falls)	3 ENE,RR NNW	500	16	
Chesnee	2 S,RR W	910	18	PRIVATE.
Coronaca (Greenwood)	3.8 N,RR E	629	50h	
Fairforest (Spartanburg)	5.8 WNW,rd W	830	23 S6	80 oct.
(N) GREENVILLE	3.2 E,RR SE	1015	42h R1 L5 S6	80 oct.
(A) Greenville AAB (A)	7.5 SSE,hwy W	942	55h R1 L5 S6	73, 91, 100 oct. No sto.
Greenwood	2.6 W,RR E	650	24 S6	73 oct.
(N,P) MEMORIAL (Spartanburg)	2.5 SW,hwy SE	804	44h R2 L5 S6	80, 91 oct. 100 oct. for military.
Paris Mountain (Greenville)	4.2 NNW,RR E	1006	21 S6	80 oct. Pwr line NW.

TENNESSEE

Island (Knoxville)	2.5 E	830	35 S4	80 oct. No sto.
(P) McGHEE-TYSON (Knoxville)	12 SSW,hwy E	988	50h R2 L5 S6	91, 100 oct.
Morristown	5.7 ENE	1400	19 S1	73 oct.
TRI-CITY	11.8 NNW Johnson City	1518	45h R1 L5 S6	80, 91 oct. 10.2 ESE Kingsport.

VIRGINIA

★ Chilhowie Int,29B,NA-WA	3.9 SE,riv N	2100	34 L3 S4	80 oct. Pole lines SW,NE.Riv SW.
Powell Valley (Big Stone Gap)	4 ESE,hwy NW	1700	25 S4	80 oct.Pole line ENE,hills W.
Richlands	2.7 WSW,RR N	1950	20 S2	80 oct.

* hard surfaced runways. R-radio facilities

RADIO

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHARLOTTE (Douglas)	212(CF)(116.1)	BMLZ-VDT; 359°,1.7	(3); 116.1
DOUGLAS ARPT. (Charlotte)	396 (126.18) (118.9)	C	(4); 126.18,118.9,131.9, others on req.
GREENSBORO	365(GW)(116.1)	SBRAZ-VDT	(3); 116.1
Greensboro-High Pt. Airport	219 (126.18) (118.7)	C; 241°, 1.5	(4); 118.7,126.18
POPE (Fort Bragg)(Army)	338(DOP)(116.1)	SBMRAZ-V	(3); 116.1
Pope Field	396 (126.18) (116.1)	CA(ILS);355°,2.5	(3); 116.1,126.18
RALEIGH (Raleigh-Durham Airport)	350(DU)(116.1)	SBRAZ-VDT;299°,3.8	(4); 116.1
SMITH-REYNOLDS AIRPORT (Winston-Salem)	278 (126.18) (118.3)	C	(4); 142.74,126.18, 118.3,131.9
WINSTON-SALEM (Smith-Reynolds Airport)	379 (DWS)	MRLWZ; 328°, 5.1	

SOUTH CAROLINA

FLORENCE	239(FL)(116.1)	SBMRLZ-VDT;292°,1.7	(4); 116.1

VIRGINIA

DANVILLE	344(VE)(116.1)	MHVT	(4); 116.1
→ PULASKI (Loving)	272(US)(116.1)	SBMRAZ-VDT.247°.2.1	(4);116.1
ROANOKE (Woodrum Fld)	317(RO)(116.1)	SBRAZ-VDT;349°,2	(3); 116.1
WOODRUM FIELD (Roanoke)	278 (118.5)	C	(4); 131.9,118.5,126.18

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
POPE, N.C.	110.3	335	360° Mag.	IM (.04)	MM ····· (4.00)	OM -- (4.18)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NORTH CAROLINA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen Inc.	1.2 W; RR N	450	25	Obsts sur fld.
Ashboro	1.8 SSW;hwy NW	864	18 S2	80 oct.
(A) Balloon (Ft. Bragg)(A)	1 NNW; RR E	225	22	Closed to all acft.
Belmont	1.3 NE;riv E	740	20 S6	80 oct. No sto.Pole line WNW.
Bridges (Kings Mountain)	1 SW; RR SE	930	17 S2	80 oct.
Brockenbrough (Derita)	3.8 WNW;RR E	800	22 S6	80 oct. Pole line SSE.
Brooks (Red Springs)	1.2 N; RR SE	208	26	
(P) Burlington	4 SW; hwy W	638	28 S6	80 oct. Pole line S.
Burris (Lincolnton)(NC)	2.2 SW; RR SE	960	10	UNUSABLE.
Camp MacKall (Hoffman)	3.5 E	350	50h	
Candor (NC)	1.1 E; RR N	710	19	Pole line WNW.
Cannon (Charlotte)	3 WNW; hwy S	788	24 L S6	80,91 oct. Flood lgts req.
Caswell (Yanceyville)	3.7 S; hwy W	640	20 L S1	80 oct. Flare pots prior req.
Coley (Concord)	2 SW; RR E	790	12 S1	80 oct. Trees ESE.
Colonial Flying Service (Mt. Airy)	1.4 NNE;RR S	950	15 S1	80 oct. Pole line, trees NNW.
Concord	4.5 ESE;rd E,S	700	19 S2	80 oct. Pole line NE.
Delta Air Base(Charlotte)	6.7 E; hwy S	750	31 S6	80 91 oct. No sto. Poles NW.
(A) DOUGLAS (Charlotte)	5.5 W; RR N	745	52h R2 L5 S6	80,91 oct.
Durham Airways	7.8 N; RR E	310	14 S1	80 oct.
Elkin	2.8 SW;RR NNW	1100	24 S2	80 oct.Rnwy data unverified.
Erwin	1 SW; riv SW	195	30 S1	80 oct. Pwr line S.
Fairchild-Civil (Burlington)	1.5 E; RR S	640	35h	
Fayetteville	5 N; hwy E	238	36 L1 S6	80 oct. Pwr line E.,
Fraley (High Point)	2.5 SSE;RR W	1000	17 S6	80 oct. Strips rough. Trees SE.
Gastonia	1.3 SW	795	16h S4	80 oct. Pwr line SW.
" mun.	4.5 SSE;hwy SW	800	30h	
(A) GREENSBORO-HIGH POINT	8 WNW; RR SW	905	40h R2 L5 S6	80,91,100 oct.
Hickory	2.2 W;RR S	1180	40h S6	80,91 oct.
Horace Williams (Chapel Hill)	1.3 NNW;RR W	502	49 S4	80 oct.
Kannapolis	2.8 N; RR E	750	23 S6	80 oct. Trees WNW.
Kings Mountain	3.5 SW; RR SE	980	23 S2	80,91 oct.
Knollwood (Pinehurst)	5 NE; hwy W	455	53 L5 S4	80,91 oct.
Laurinburg-Maxton(Maxton)	3.5 N;riv E	220	65h	
Lee County (Sanford)	1.5 SE;RR E	400	19 S4	80 oct. No sto. Pwr line sur fld.
Lillington	1.1 NNE;RR S	210	15 S2	80 oct.Pole line NW.
(P) Lumberton	3 WSW;hwy NNW	126	50h L2 S6	80,91 oct.
McLean Brothers (Gibsonville)	0.5 SW;hwy NE	723	18 S6	80 oct.
Mayo (Mayodan)	0.8 W; riv E	900	24 S1	80 oct.
Mocksville	2 W; RR E	800	14 S2	80 oct.
Monroe, com	2.8 SSE	600	20 S2	80 oct.
" mun	2 NNW; hwy S	680	20 S1	80 oct. Trees NW.
Mt. Airy	2.2 SW;RR E	1050	20 S2	80 oct.
North Wilkesboro	1.3 WSW;riv S	970	15 S4	80 oct.
Parkers (Eagle Springs)	1.8 NW;RR S	700	40 S1	80 oct.
Plaza (Charlotte)	5 NE; RR N	740	20 S6	80 oct.
(A) Pope (Ft. Bragg)(A)	2 NW; riv NW	210	52h R3 L5 S6	73,91,100 oct.
Raleigh	3.3 SSW;RR W	364	28h S6	80,91 oct.
RALEIGH-DURHAM(Raleigh)	10.5 NW;RR W	433	45h R1 L5 S4	80,91 oct.
Reidsville	3.2 SE;riv S	822	25 S6	80 oct.
(P) Rockingham-Hamlet	3.5 S; RR E	358	46 S2	80 oct.
Roxboro	7 NE; RR W	600	18 S1	80 oct.
Salisbury	3 SW; RR E	764	25 L2 S6	73 oct.
Skyline (Southern Pines)	4.5 NE;RR NW	460	21 S4	80 oct. No sto. Pwr line S.
SMITH-REYNOLDS (Winston-Salem)	2.8 NNE;RR W	969	67h R2 L5 S6	80,91 oct. Rnwy data unverified.
Stanly (Albermarle)	6 WNW;hwy S	720	16 S1	80 oct.
Statesville	4.5 WSW;RR SE	990	27 S2	80 oct. Trees N.
Tri-City (Draper)	1.2 W; riv W	560	26 S2	80 oct.
Wadesboro	3.7 NNE;RR S	220	18 S4	80,91 oct.
Warf (Reidsville)	3.8 SW; hwy W	820	23 S2	80 oct. Trees N, S.
Whiteville	3.7 S; RR N	60	18 S1	Ltd 80 oct.
Young Airfield (Oxford)	1.8 SW; RR NW	475	18 S1	Ltd 80 oct.

SOUTH CAROLINA

(P) Chester	5 NNE;RR W	709	50h S4	80 oct. No sto.
Coulbourn (Lancaster)	1 SSW;hwy SW	560	32 S4	80 oct.
Florence	3.5 E; RR SW	146	60h R1 L5 S1	80,91 oct.
Hartsville	2.1 NNE;hwy S	230	25 S2	80 oct.
(P) Hartsville (Darlington)	10 N; hwy E	190	50h	
Huggins (Timmonsville)	1.5 ENE;hwy NW	149	18 S4	80 oct. Pwr line NNW.
Kershaw	4 S; RR W	475	21	
Little Rock (NC)	2.5 SE;hwy W	135	22	Poles around fld.
Lynch Bellinger (Cheraw)	4.2 WNW;RR S	400	22 S4	80 oct. No.sto.Pole line S,WSW.
Palmer (Bennettsville)	3.4 NNW;hwy E	155	44	Not maintained as landing fld.(NC)
Roddey (Rock Hill)	2.7 SW; RR NW	664	28 S4	80,91 oct.Pole line S.
Rowe (Bennettsville)	1.5 NE	190	29 S5	80,91 oct.Trees SW.
(P) Woodward (Camden)	2.9 NE; hwy E	300	30h S4	80 oct.

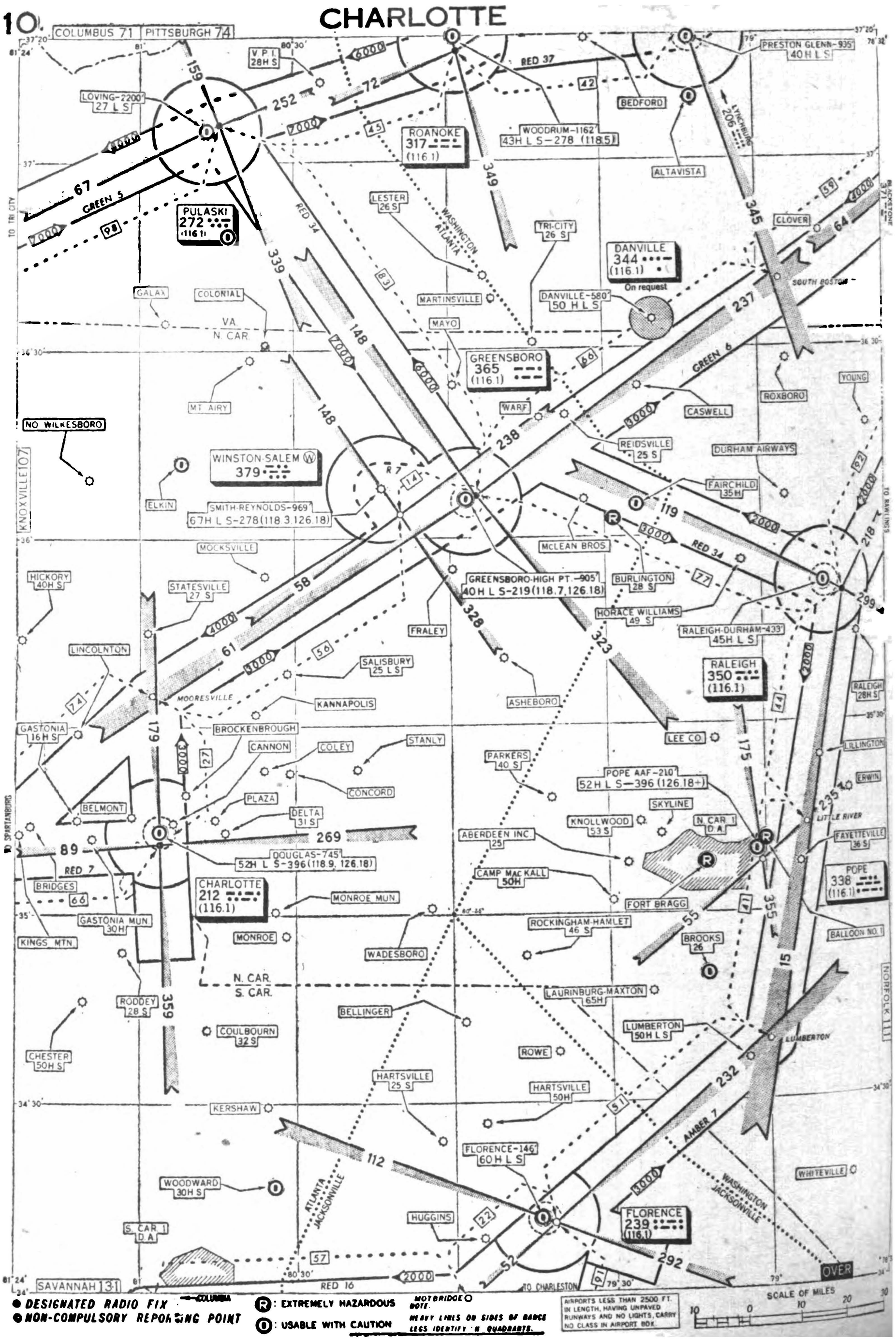
VIRGINIA

Altavista	6.1 NE;RR S	650	18 S1	80 oct. Trees SW.
Bedford	1.3 WSW;RR N	1050	16	PRIVATE.
(P) Danville	3.4 ESE	580	50h R1 L5 S6	80,91 oct.
Galax	6.5 S;hwy E	2575	27 S4	80 oct.
Lester (Martinsville)	0.8 NNW;RR NE	1000	26 S2	80 oct.20-75' bldgs SE.
Loving,35A,NA-WA(Pulaski)	2.8 N;RR SE	2200	27 R1 L3 S4	80 oct.Poles SW.No sto.
Martinsville	3.5 SSE;RR NE	800	16 S2	73 oct.
PRESTON GLENN (Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
V.P.I. (Blacksburg)	1.3 SSE;RR W	2100	28h L1 S6	73,80 oct. Strip rough.
(P) WOODRUM (Roanoke)	4.2 NNW;rd W	1162	43h R2 L5 S6	80,91,100 oct.
Clover	3.5 SSW;riv E	350	20	Trees E,W,SE,NW.House E,SE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted.

→ NEW OR REVISED DATA

CHARLOTTE



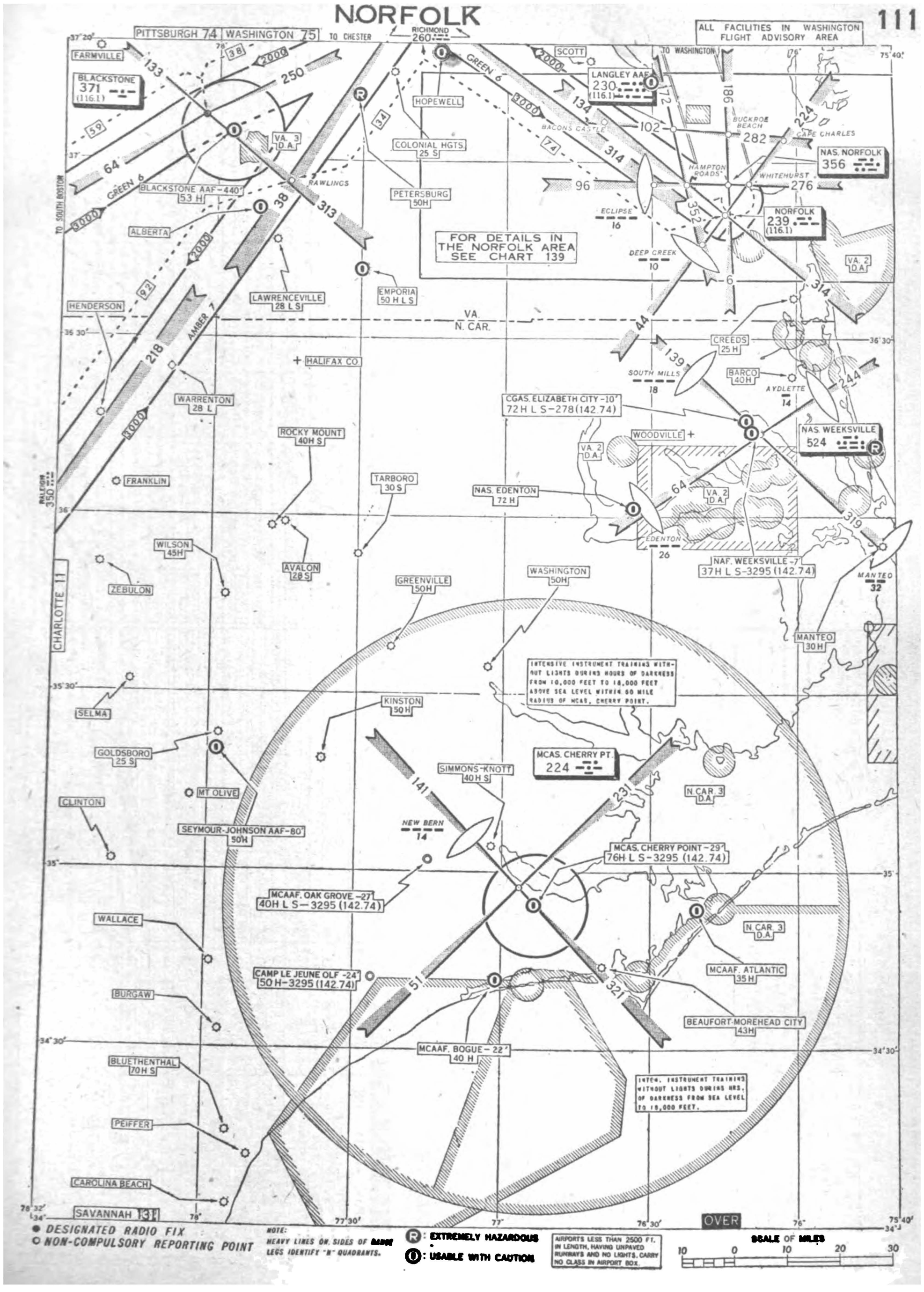
● DESIGNATED RADIO FIX
● NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY IN QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

NORFOLK


PITTSBURGH 74 WASHINGTON 75
TO CHESTER
RICHMOND 260
ALL FACILITIES IN WASHINGTON FLIGHT ADVISORY AREA
TO WASHINGTON
FARMVILLE
BLACKSTONE 371 (116.1)
BLACKSTONE AAF-440' 53 H
VA. 3 D.A.
HOPEWELL
COLONIAL HGTS. 25 S
PETERSBURG 50H
RAWLINGS
ALBERTA
LAWRENCEVILLE 28 L S
EMPORIA 50 H L S
HENDERSON
WARRENTON 28 L
HALIFAX CO.
VA.
N. CAR.
FOR DETAILS IN THE NORFOLK AREA SEE CHART 139
SCOTT
LANGLEY AAF 230 (116.1)
BACONS CASTLE
BUCKROE BEACH
CAPE CHARLES
NAS. NORFOLK 356
HAMPTON ROADS
WHITEHURST
ECLIPSE 16
NORFOLK 239 (116.1)
DEEP CREEK 10
VA. 2 D.A.
CREEDS 25 H
SOUTH MILLS 18
BARCO 40H
AYDLETTE 14
CGAS. ELIZABETH CITY -10' 72 H L S-278(142.74)
NAS. WEEKSVILLE 524
WOODVILLE
VA. 2 D.A.
NAS. EDENTON 72 H
EDENTON 26
NAF. WEEKSVILLE -7' 37H L S-3295 (142.74)
MANTEO 32
MANTEO 30H
RALEIGH 350
FRANKLIN
ROCKY MOUNT 40H S
TARBORO 30 S
AVALON 28 S
WILSON 45H
ZEBULON
CHARLOTTE 11
GREENVILLE 50H
WASHINGTON 50H
KINSTON 50H
SELMA
GOLDSBORO 25 S
MT OLIVE
CLINTON
SEYMOUR-JOHNSON AAF-80' 50H
NEW BERN 14
SIMMONS-KNOTT 40H S
MCAS. CHERRY PT. 224
INTENSIVE INSTRUMENT TRAINING WITHOUT LIGHTS DURING HOURS OF DARKNESS FROM 10,000 FEET TO 18,000 FEET ABOVE SEA LEVEL WITHIN 60 MILE RADIUS OF MCAS, CHERRY POINT.
N. CAR. 3 D.A.
MCAS. CHERRY POINT -29' 76H L S-3295 (142.74)
MCAAF. OAK GROVE -27' 40H L S-3295 (142.74)
WALLACE
CAMP LE JEUNE OLF -24' 50 H-3295 (142.74)
BURGAW
MCAAF. ATLANTIC 35 H
BEAUFORT-MOREHEAD CITY 43H
MCAAF. BOGUE-22' 40 H
BLUETHENTHAL 70 H S
PEIFFER
CAROLINA BEACH
SAVANNAH 134
INTEN. INSTRUMENT TRAINING WITHOUT LIGHTS DURING HRS. OF DARKNESS FROM SEA LEVEL TO 18,000 FEET.
TO SOUTH BOSTON
37°20'
37°
36°
35°30'
35°
34°30'
34°
78°32'
78°
77°30'
77°
76°30'
76°
75°40'
GREEN 6
AMBER 7
2000
3000
59
64
38
92
218
34
74
96
313
314
102
172
186
224
282
276
352
6
44
139
244
319
64
51
321
141
231
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF AMBER LEGS IDENTIFY "H" QUADRANTS.
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

RADIO — NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS, GUARDED, HRS. OF OPER., REMARKS
AYDLETTE FM (Navy)	(-)	FM, 64°, 14	Weeksville NAF
CAMP LE JEUNE OLF (New River)	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
CHERRY POINT (Navy)	224 (NKT)	BMRLZ	(3); 140.58, 142.74
Cherry Point MCAS	3295 (142.74)	CN, 141°, 4	(3); 142.74 (6-19)
EDENTON FM (Navy)	(- - -)	FM, 244°, 26	Weeksville NAF
ELIZABETH CITY CGAS	278 (142.74)	CN	(3); 142.74 (7-19)
NEW BERN FM (Navy)	(- - - -)	FM, 321°, 13.6	Cherry Point MCAS
OAK GROVE MCAAF (Polloksville)	3295 (142.74)	CN	3105;142.74 (8-18)
SOUTH MILLS FM (Navy)	(- - - -)	FM, 319°, 17.5	Weeksville NAF
WEEKSVILLE (Navy)	324 (NFG)	MRL	500,3105; 142.74 (7-19)
Weeksville NAF-LTA	3295 (142.74)	CN, 319°, 0.5	3105; 142.74 (8-1630)
MANTEO FM (Navy)	(- -)	FM,139°,32	Weeksville NAF

VIRGINIA

BLACKSTONE (AAF)	371 (KT)(116.1)	BMLZ-VDT,133°,5.5	(4); 116.1
DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk
LANGLEY FIELD (Army)	230 (DLY)(116.1)	SBMRAPZ-VDT	(3); 116.1
NORFOLK	239 (NWX)116.1	SBMRLZ-VDT,44°,3.4	(3):116.1
Norfolk NAS (Navy)	356 (NGU)	BMRLZ, 276°,2.9	

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Atlantic MCAAF (N)	0.8 NW,hwy SE	24	35h	INACTIVE
Avalon (Rocky Mount)	3.8 NE,RR W	120	28 S2	80 oct.
Barco Flight Strip	2.4 W,hwy S	19	40h	
(P) Beaufort-Morehead City	1 N, riv W	13	43h	
(P) BLUETHENTHAL	2.4 NNE, RR W	30	70h L5 S4	80,91 oct. Fld lgts prior req. (Wilmington)
(N) Bogue MCAAF (N)	5.6 E Swansboro	22	40h	INACTIVE.
Burgaw	1.2 W,hwy N,S	30	22 S1	80 oct. Pwr line SSE.
(N) Camp Lejeune OLF (New River)(N)	2.5 S Jacksonville	24	50h R1	
Carolina Beach	2.2 NNW,hwy E	32	16 S1	80 oct. (ltd)
(N) Cherry Point MCAS	2.5 SW,riv N	29	76h R2 L5 S6	100 oct. (N)
Clinton	2 N, hwy W	160	24 S6	80 oct. Pole line W
(N) Edenton NAS (N)	3.5 SE	19	72h	INACTIVE
ELIZABETH CITY CGAS	3.5 SE,riv NE	10	72h R1 L6 S4	91, 100 oct.
Franklin(Louisburg)	2 WSW,hwy S	290	20 S4	80 oct. Hi-line S
Goldsboro	1.3 E,hwy S	110	25 S1	80 oct. Pole line NNE
(P) Greenville	1.8 NNW	25	50h	
Halifax Co.(Roanoke Rapids)	3 SW,hwy N	140	25 S1	80 oct. Data not verified.
Henderson	3 S,RR W	490	23 S6	80,91 oct. No sto. Pole lines S. Rnwy data not verified.

R-hard surfaced runways R-radio facilities L-lighting facilities S-servicing. (See page XIV) (NC)-Not charted. ⟶ NEW OR REVISED DATA

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Jacksonville (NC)	3.7 NE,RR SE	51	14	
(P) Kinston	4.2 NNW	93	50h	
Manteo	1.5 NW,rd NE	12	30h	
Mt. Olive	1.1 NE,RR E	160	15 S1	80 oct.
(N) Oak Grove MCAAF (Polloksville) (N)	2.5 NW,riv S	27	40h R1 L S4	91, 100 oct.
Peiffer(Wilmington)	6 ESE,ocean E	10	18 S1	80 oct. Poleline NNE,trees N,S,SW.
ROCKY MOUNT	2.3 N,RR E	114	40h S3	80 oct. Use rnwys only.
Selma	0.5 E,RR W,S	150	19 S4	80 oct. Pole line E
(A) Seymour-Johnson (Goldsboro) (A)	3 SSE,riv SW	80	50h	INACTIVE
SIMMONS-KNOTT	2.5 SSE	19	40h S1	80, 91 oct. (New Bern)
Tarboro	2 ESE,riv NNW	50	30 S6	80 oct. No sto. Pole line NNE.
Wallace	0.8 N,RR SW	50	16 S6	80 oct. No sto.
★ Warrenton Int,46,JX-RW	1.5 NE,RR W	446	28 L3	
(P) Washington	1.8 N,hwy W	38	50h	
(N) Weeksville NAF(LTA)	2.2 NE	7	37h R2 L5 S4	91, 100 oct. (N)
(P) Wilson	4.2 NW,hwy E	161	45h	
Woodville (Elizabeth City)	9 WSW	15	19 S6	80 oct. No sto. Pole line S, SW. Data not verified.
Zebulon	3.5 NW,hwy E	324	16 S1	80 oct.

VIRGINIA

Alberta	1.5 E,RR SW	380	17 S2	80 oct. Trees WSW.
(A) Blackstone AAF (A)	2.5 ESE,hwy N	440	53h R1	Closed to all acft. INACTIVE
Clarksville-Finchley	5 ENE,RR S	450	13	House, trees NW, (NC)
Colonial Heights (Petersburg)	2 NNE,RR W	60	25 S1	80 oct.
Creeds	1.5 E,bay E	10	25h	
Emporia	3 E,rd S	127	50h L5 S1	80,91 oct. Trees sur fld.
Hopewell	3.3 E,riv N	20	24 S6	80 oct.
Lawrenceville,49B, JX-RW	3.8 ENE,RR N	317	28 L3 S6	80 oct.
Petersburg	6.2 WSW,RR N	190	50h	
Scott (Williamsburg)	1.3 NNW,RR SW	90	20 S2	80 oct. Pole line SW,WNW.
William & Mary College (Williamsburg)	3 NNW,RR SW	105	29	20-60' trees NE,SW,W (NC)
Farmville	2.5 NW,riv N	325	20 S6	80 oct. Hill W.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALICE	224(EZ)(116.1)	SBRAZ-VDT,73°,3.3	(4);116.1
BROWNSVILLE (International Arpt)	388(JI)(116.1)	SBRAZ-VDT,157°,2.4	(3);116.1
CABANISS NAAS,(Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
CLIFF MAUS (Corpus Christi)	278(118.3)	C	(4);118.3,126.18,140.1,131.9
CORPUS CHRISTI (Cliff Maus Field)	382(CR)(116.1)	SBMRLZ-VDT,138°,2.9	(3);116.1
Corpus Christi (Navy)	248 (NGP)	MLZ	(3);142.74
Corpus Christi NAS	248 (142.74)	CN;350°,3.3	(3);142.74
Corpus Christi NAS (Seapl)	2870(142.74)	CN	3105;6210;142.74
CUDDIHY NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
FALFURRIAS FM	(- -)	FM, 163°, 35.5	Alice
GREGORY FM (Navy)	(-)	FM, 350°, 18	Corpus Christi NAS
INTERNATIONAL ARPT (Brownsville)	278 (126.18) (118.7)	C(ILS);157°,2.4	(4);126.18,118.7
LAREDO (AAF)	206(LL)(116.1)	SBRAZ-VDT,137°,3.3	(4);116.1
LOS FRESNOS FM	(- - - -)	FM, 338°, 8.9	Brownsville
MERCEDES FM	(- - -)	FM, 282°, 29.5	Brownsville
PALACIOS	350(UX)(116.1)	BMLZ-VDT,118°,1.7	(4);116.1
PLEASANTON FM	(- - -)	FM, 174°, 44.2	San Antonio
RODD NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
WALDRON NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
INTERNATIONAL, TEXAS	110.3		170° Mag.	IM	MM ·····(.66)	OM ——(4.34)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

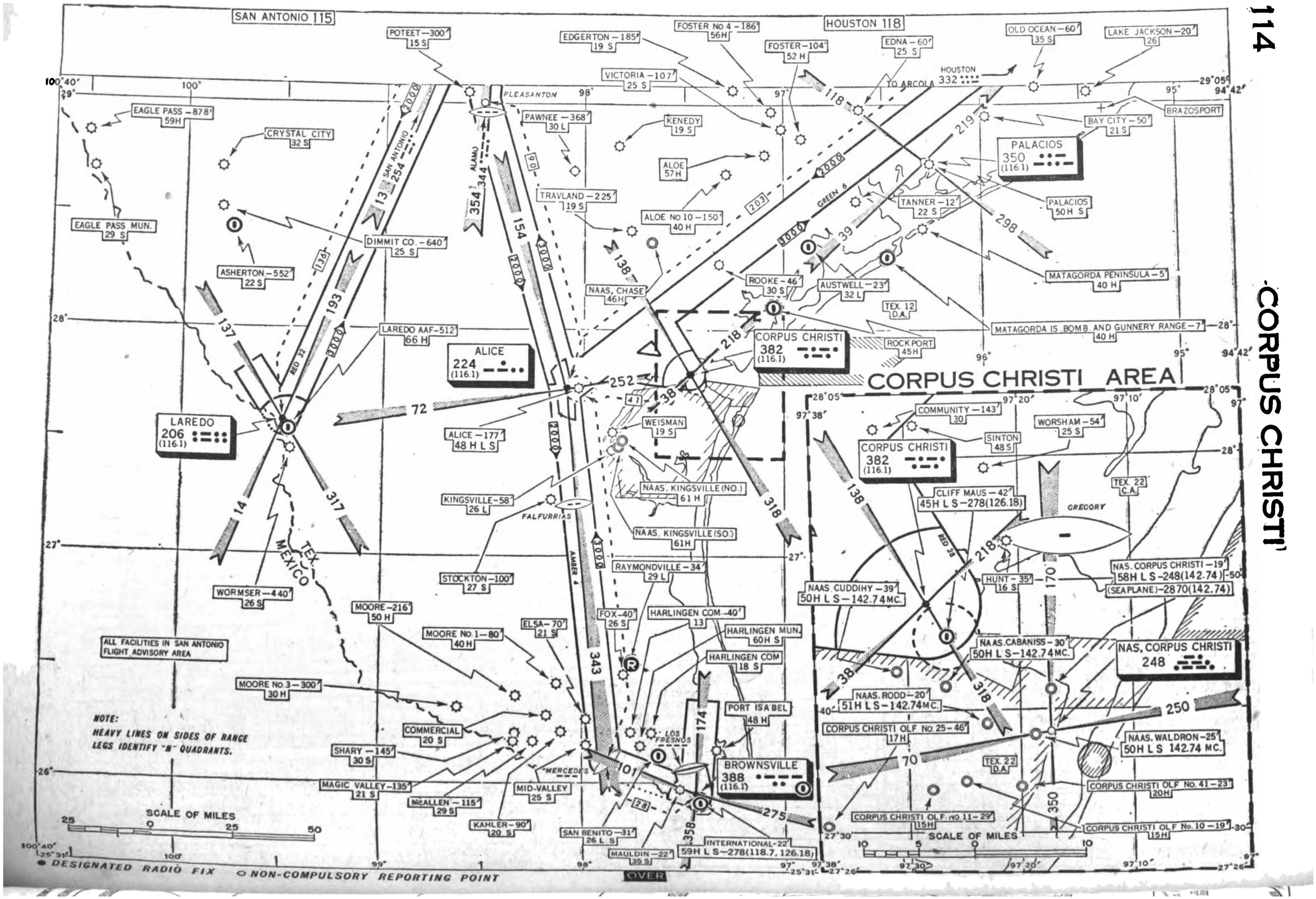
AIRPORTS — TEXAS

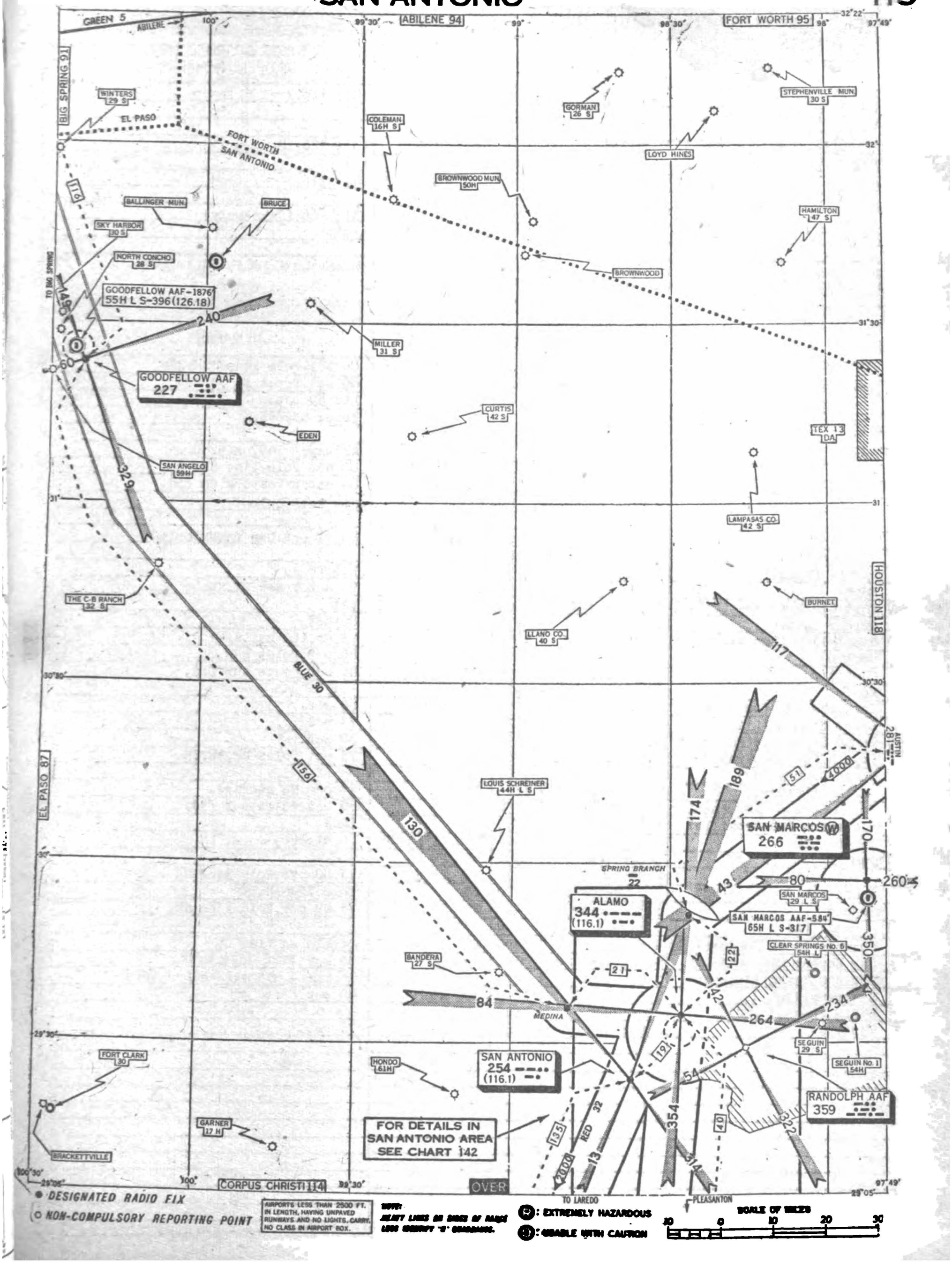
AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Alice	3.3 ESE;RR N	177	48h R1 L5 S6	80,91 oct.
Alice (Victoria)	6 WSW;RR SE	107	57h	
" #10 (Victoria)	19.8 WSW	150	40h	
Asherton	1 S;RR NE	552	22 S1	80 oct.Poles N;trees sur fld.
★ Austwell Int.5A,CR-HU	2.1 SSW;bay NE	23	32 L2	Fence around fld.
Bay City	2 SSW;RR N	50	21 S6	80 oct.No sto.Pole line E.
Brazosport (Velasco)	1 N;hwy SW	6	24 S1	80 oct.Data not verified.
(N) Cabaniss NAAS (Corpus Christi)(N)	6.2 SSW;RR NE	30	50h R1 L5 S4	91 oct.
(N) Chase NAAS (Beeville)(N)	5.6 ESE;rd N	186	46h R1	INACTIVE.
Chuparders Ranch Emerg. Strip (Laredo)(NC)	60 NW	630	33 L1	
(N) CLIFF MAUS (Corpus Christi)	2.5 SW;RR N	42	45h R2 L5 S6	80,91 oct.No storage.
Commercial (Edinburgh)	1 W;RR SE	90	20 S1	73 oct.Pole line NW,NNW.
Community (Sinton)	2 W;RR SE	143	30	
(N) Corpus Christi NAS (N)	9.5 SE	19	58h R2 L5 S6	91,100 oct.NATS,NAFC.
(N) " OLP #10 (N)	15 S	19	15h	11 SSW Aberdeen.
(N) " OLP #11 (N)	16 SSW	29	15h	13 SSW Aberdeen.
(N) " OLP #25 (N)	23.5 SSW	46	17h	12.3 ESE Bishop.
(N) " OLP #41 (N)	16 SSE	23	20h	11.8 SSE Aberdeen.
Crystal City	1.8 N;RR W	600	32 S1	80,91 oct.Pole line NE,NW.
(N) Cuddihy NAAS (Corpus Christi)(N)	7.8 SW;crk S	39	50h R1 L5 S4	91 oct.
Central Valley(Mercedes)	1.5 NE;hwy S	62	31h S6	80,91 oct.Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Dimmit Co.(Carrizo Sprgs)	2.8 E;hwy N	640	25 S1	Ltd 80 oct.Pole line ends strps.
Eagle Pass	10 N;RR N	878	59h	
" mun.	1.3 E;hwy N	774	29 S2	80 oct.ARPT OF ENTRY.
Cuero	3.1 N;RR SE	195	53	
Edna	1.5 ENE;RR NW	60	25 S1	73 oct.Live stock on fld.
Elsa	1 SSE;RR N	70	21 S6	73 oct.Crop dusters.
Foster (Victoria)	6.5 NE;RR S	104	52h	
" #4 (Victoria)	12.5 NNW	186	56h	
Fox (Raymondville)	1 WSW;RR S	40	26 S2	73,80 oct.Poles W,SE.
Freer (NC)	3.8 NNW;hwy E	375	28	Trees sur fld.
Harlingen, com.	1.8 SSW;hwy E	41	18 S1	73 oct.
" com.	5 NW;RR SW	40	13	Pole line S.
" mun.	3.5 NE;rd S	35	60h L5 S4	80,91 oct.Lgts prior req.
Hunt (Portland)	2 WNW;RR ESE	35	16 S5	80 oct.
Indianola (Magnolia Beach)	2 SW;hwy N	17	34	PRIVATE.
(P) INTERNATIONAL (Brownsville)	4.5 E;hwy N	22	59h R3 L5 S6	73-100 oct.ARPT OF ENTRY.
Kalher (Alamo)	4 NNE;RR W	90	20 S1	73 oct.Poles sur fld.
Kenedy	1.4 ESE;RR N	270	19 S2	80 oct.
★ Kingsville Int,11,JI-FV	3.5 S;RR W	58	26 L3	
(N) " NAAS (North) (N)	3.5 ESE;hwy NW	47	61h	INACTIVE.
(N) " NAAS (South) (N)	3.5 SE;hwy W,N	51	61h	INACTIVE.
Lake Jackson (Freeport)	9.5 NW;hwy E	20	26	Cattle on fld.Trees SW.
Lake Mathis (Mathis)(NC)	5 WSW;RR SE	161	20	
La Laja (Delores)(NC)	1.5 NNE;riv SW	475	18	PRIVATE.15-20' brush W.S.
(A) LAREDO AAF (A)	3.5 NE;hwy NNE	512	66h R1 L5	INACTIVE.B2 lgts for Airlines.
Los Fresnos	0.8 SSE;RR W	35	24 S1	73,80 oct.Pole line W.
McAllen	1.6 SSW;hwy N	115	29 S6	73,80 oct.Poles E,NE.
Magic Valley (Mission)	1.5 SSW;lake W	135	21 S6	73 oct.No sto.Poles E.
(A) Matagorda Island (A)		7	40h	9 SSW Port O'Conner.INACTIVE.
Matagorda-Peninsula (Matagorda)	6.5 E Port O' Conner	5	40h	
Mauldin (Brownsville)	4.4 NNW;RR W	22	35 S6	80,91 oct.Poles W.
Mid-Valley (Weslaco)(NC)	1.7 NE;RR W	70	25 S1	80 oct.Pole line NW,SW.
Moore (Mission)	12 N;RR E	216	50h	
" #1 (Mission)	10 N Edinburg	80	40h	
" #3 (Mission)	5 N LaGrulla	300	30h	
Old Ocean	1 ENE;hwy N	60	35 S1	80 oct.Cattle on fld.
Palacios	2.7 WNW	13	50h R1 S1	80 oct.
★ Pawnee Int,22,JI-FV	5 WNW;RR W	368	30 L3	
Poteet	0.6 SW;RR E	300	13 S2	73 oct.
★ Raymondville Int,5,JI-FV	3.5 NNE;RR W	34	29 L3	
(P) Rockport	4.3 N;bay W	23	45h	
(N) Rodd NAAS (Corpus Christi)(N)	9.8 S;RR NE	20	51h R1 L5 S4	91 oct.No storage.
Rooke (Refugio)	3.2 WSW;RR E	46	30 S1	73 oct.Cattle on fld.Twr NW.
San Benito,2,JI-FV	1.5 E;RR SW	31	26 L3 S6	73,80 oct.
Shary (Mission)	1 NW;RR E	145	30 S4	73,80 oct.
Sinton	1.3 E;RR NW	27	48 S6	80,91 oct.No storage.
Stockton (Falfurrias)	2 NW;RR E	100	27 S1	80 oct.Lake SW.
Tanner Sea & Land Plane Base (Port Lavaca)	3 S;hwy S	12	22 S1	80 oct.Pwr line sur fld.
Travland (Beeville)	2 NW;RR E	225	19 S2	80 oct.Poles E.
Victoria	5.5 N;hwy SW	107	25 S6	80 oct.
(N) Waldron NAAS (Corpus Christi) (N)	12 SSE;hwy NNE	25	50h R1 L5 S4	91 oct.No storage.
Weisman (Kingsville)	2.5 NNE;RR S	60	19 S4	Ltd 80 oct.Poleline S,SW,SE.
Wormser (Laredo)	4 SE;hwy W	440	26 S1	80,91 oct.
Worsham (Taft)	0.8 ENE;hwy SW	54	25 S6	80 oct.


SAN ANTONIO 115
HOUSTON 118
POTEET—300' 15 S
EDGERTON—185' 19 S
FOSTER No. 4—186' 56H
FOSTER—104' 52 H
EDNA—60' 25 S
OLD OCEAN—60' 35 S
LAKE JACKSON—20' 26
HOUSTON 332
TO ARCOLA
VICTORIA—107' 25 S
PLEASANTON
EAGLE PASS—878' 59H
CRYSTAL CITY 32 S
PAWNEE—368' 30 L
KENEDY 19 S
BRAZOSPORT
BAY CITY—50' 21 S
PALACIOS 350 (116.1)
ALOE 57H
TRAVLAND—225' 19 S
ALOE No. 10—150' 40 H
TANNER—12' 22 S
PALACIOS 50H S
EAGLE PASS MUN. 29 S
DIMMIT CO.—640' 25 S
ASHERTON—552' 22 S
ROOKE—46' 30 S
AUSTWELL—23' 32 L
NAAS, CHASE 46H
TEX. 12 D.A.
MATAGORDA PENINSULA—5' 40 H
LAREDO AAF—512' 66 H
ALICE 224 (116.1)
CORPUS CHRISTI 382 (116.1)
ROCKPORT 45H
MATAGORDA IS. BOMB. AND GUNNERY RANGE—7' 40 H
CORPUS CHRISTI AREA
LAREDO 206 (116.1)
ALICE—177' 48 H L S
WEISMAN 19 S
COMMUNITY—143' 30
WORSHAM—54' 25 S
SINTON 48 S
CORPUS CHRISTI 382 (116.1)
NAAS, KINGSVILLE (NO.) 61 H
KINGSVILLE—58' 26 L
FALFURRIAS
CLIFF MAUS—42' 45H L S—278(126.18)
TEX. 22 C.A.
GREGORY
NAAS, KINGSVILLE (SO.) 61H
RAYMONDVILLE—34' 29 L
STOCKTON—100' 27 S
NAAS. CUDDIHY—39' 50H L S—142.74MC.
HUNT—35' 16 S
NAS. CORPUS CHRISTI—19' 58H L S—248(142.74)—50' (SEAPLANE)—2870(142.74)
WORMSER—440' 26 S
MOORE—216' 50 H
FOX—40' 26 S
HARLINGEN COM.—40' 13
HARLINGEN MUN. 60H S
ELSA—70' 21 S
MOORE No. 1—80' 40H
ALL FACILITIES IN SAN ANTONIO FLIGHT ADVISORY AREA
HARLINGEN COM 18 S
NAAS. CABANISS—30' 50H L S—142.74MC.
NAS, CORPUS CHRISTI 248
MOORE No. 3—300' 30 H
NAAS. RODD—20' 51H L S—142.74MC.
PORT ISABEL 48 H
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
CORPUS CHRISTI OLF No. 25—46' 17H
NAAS. WALDRON—25' 50H L S 142.74 MC.
COMMERCIAL 20 S
LOS FRESNOS
SHARY—145' 30 S
BROWNSVILLE 388 (116.1)
TEX. 22 D.A.
MERCEDES
MAGIC VALLEY—135' 21 S
MID-VALLEY 25 S
CORPUS CHRISTI OLF No. 41—23' 20H
McALLEN—115' 29 S
CORPUS CHRISTI OLF No. 11—29' 15H
KAHLER—90' 20 S
SAN BENITO—31' 26 L S
CORPUS CHRISTI OLF No. 10—19' 15H
INTERNATIONAL—22' 59H L S—278(118.7, 126.18)
MAULDIN—22' 35 S
SCALE OF MILES
SCALE OF MILES
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
OVER


GREEN 5
ABILENE
ABILENE 94
FORT WORTH 95
100°
99°30'
99°
98°30'
98°
97°49'
32°22'
32°
31°30'
31°
30°30'
30°
BIG SPRING 91
WINTERS 29 S
EL PASO
FORT WORTH
SAN ANTONIO
COLEMAN 16H S
GORMAN 26 S
STEPHENVILLE MUN 30 S
LOYD HINES
BROWNWOOD MUN 50H
HAMILTON 47 S
BALLINGER MUN
BRUCE
SKY HARBOR 30 S
NORTH CONCHO 28 S
BROWNWOOD
TO BIG SPRING
GOODFELLOW AAF-1876
55H L S-396(126.18)
MILLER 31 S
GOODFELLOW AAF
227
EDEN
CURTIS 42 S
TEX 13
DA
SAN ANGELO 59H
LAMPASAS CO. 42 S
HOUSTON 118
THE C-B RANCH 32 S
BURNET
LLANO CO. 40 S
BLUE 30
EL PASO 87
LOUIS SCHREINER 44H L S
AUSTIN 281
SAN MARCOS
266
SPRING BRANCH
22
ALAMO
344
(116.1)
SAN MARCOS 29 L S
SAN MARCOS AAF-584'
65H L S-317
CLEAR SPRINGS NO. 6 54H L
BANDERA 27 S
MEDINA
SEGUIN 29 S
SEGUIN NO. 1 54H
SAN ANTONIO
254
(116.1)
FORT CLARK 30
HONDO 61H
RANDOLPH AAF
359
GARNER 17 H
FOR DETAILS IN SAN ANTONIO AREA SEE CHART 142
BRACKETTVILLE
CORPUS CHRISTI 114
OVER
TO LAREDO
PLEASANTON
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
NOTE: HEAVY LINES ON SIDES OF MAGN. LEGS INDICATE "D" CHARGING.
D: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
SCALE OF MILES
30 20 10 0 10 20 30

SAN ANTONIO

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMO (San Antonio)	344(JR)(116.1)	BMLZ-VDT	(4); 116.1
GOODFELLOW (San Angelo) (Army)	227 (DIP)	BMRLZ	(3)
Goodfellow Field	396 (126.18)	CA; 329°, 2.5	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
SAN ANTONIO (Kelly)	254(ZN)(116.1)	SBRAZ-VD,107°,1.8	(4); 116.1
SAN MARCOS (Army)	266 (DMS)	MRLWZ	
San Marcos AAF	317	CA; 170°, 4.5	(3); 266 (days only)
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

AIRPORT CITY NAME	CLASS	ELEV.	LOCATION	REMARKS
Ballinger	2.5 NW;RR E	1710	20 S1	80 oct.Pole line SSW,SSE.
Bandera	3 SE;hwy NNE	1125	27 S6	80 oct.Trees E.
Brackettville	2.6 W;hwy N	1105	17 S1	Ltd 80 oct.
Brownwood	1 S;hwy W	1310	22	Poles SE,ESE,E.
(A) " mun.	6.3 NNE;RR S	1386	50h	
Bruce (Ballinger)	4.5 SSW;RR NW	1731	23h	Allway: 7497 x 5280 .
Burnet	2 NE;RR W	1325	21 S1	80 oct.Pole line SW.
C-B Ranch (Ft.McKavett)	1.5 W;rd S	2150	32 S1	80 oct.Livestock on fld.
(A) Clear Springs #5 (New Braunfels) (A)	4.8 E;riv SW	640	54h L	Ctc lgts only.
Coleman	1.7 NE;RR S	1685	16h S6	80,91 oct.Use rnwys only.
Comanche (NC)	1.7 NNW;hwy SW	1500	14	
Curtis (Brady)	3 N;hwy SE	1830	42 S1	Ltd fuel.
Eden	1 NW;hwy E	2050	15 S1	73 oct.Trees NE,SW.
(A) Fort Clark(Brackettville)	1.5 SW;rd E	1105	30	(A)
Garner (Uvalde)	2.7 E;hwy N	930	17h S1	80 oct.
(A) Goodfellow (San Angelo)(A)	3 SE;rns N,W	1876	55h R2 L5 S6	73,91,100 oct.JP-1.
Gorman	1 S;RR NE	1400	26 S2	80 oct.Poles NNE.
Hamilton	2.3 SSW;hwy E	1250	47 S6	80 oct.Fence sur fld.
Hondo	2.1 NW;RR S	929	61h	
Lampasas Co. (Lampasas)	6 NW;RR S	1480	42 S2	80 oct.
Llano County (Llano)	2.4 NNE;riv NE	1029	40 S1	73 oct.
(P) Louis Schreiner(Kerrville)	3.9 SE;RR SW	1590	44h L5 S6	80 oct.
Loyd Hines (Dublin)	1.3 NW;RR SW	1260	18 S1	73 oct.Poles NW,SW,SE.
Mason County (NC)	3.2 ESE;hwy N	1500	44	
Miller (Leaday)	1 S;riv W	1525	31 S6	73 oct.No storage.
North Concho (San Angelo)	1.7 WNW;RR E	1850	28 S4	80 oct.Poles sur fld.
Riomedina (Castroville)	4.5 N;riv W	855	45	(NC)
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S2	80,91 oct.
(A) San Marcos AAF (A)	5 E;riv W	584	65h R2 L5	
★ " Int,31B,JI-FV	2 SE;hwy N	577	29 L3 S6	73,80 oct.Pole line NE.
Schneider (Seguin)(NC)	2.2 WNW;RR N	520	23	Pole line N.
Seguin	3.3 WSW;riv E	400	29 S1	73,80 oct.Pole line NW.
(A) " #1 (A)	3 E;rd N	530	54h	
Sherril (Rock Springs)(NC)	4 W;hwy S	2400	21	Cattle on fld.
Sky Harbor (San Angelo)	4.6 NNW;RR SW	840	30 S1	80 oct. Pole line W,NW.
South Coleman (Coleman)	1 S;hwy NW	1710	21	Closed - not maintained.(NC)
Stephenville*	1.5 E;hwy S	1310	30 S6	80 oct.
White (Brady) (NC)	10 W;RR N	1550	73	
Winters	2 NW;RR E	1860	29 S1	73 oct.

h-hard surfaced runways. R-radio facilities, L-lighting facilities. S-servicing.(See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCOLA FM	(-)	FM, 226°, 15	Houston
AUSTIN (Robert Mueller Arpt)	281(XN)(116.1)	SBMRLZ-VDT,117°,2	(3); 116.1
BERGSTROM FIELD (Austin)	396 (126.18)	CA	(4); 126.18
HOUSTON	332(HU)(116.1)	SBRAZ-VDT	(3); 116.1
Houston Airport	278 (126.18) (118.5)	AC; 309°, 2.5	(4); 131.9,126.18,116.5
HOUSTON LFM	(- - - -)	LFM, 309°, 5.5	Houston
NAVASOTA (Int)	212(NT)(116.1)	FMRL-VLT,180°,1.3	(4);116.1
RICHMOND	391 (UT)	MRLW	
ROBERT MUELLER ARPT, (Austin)	272 (113.7)	C	(4);118.7,126.18,131.9,140.1
WACO (Mun)	385(WC)(116.1)	SBRAZ-VLT,9°,2.6	(4);116.1
WEBSTER FM	(- - - -)	FM, 129°, 9.3	Houston
YOAKUM (Int)	236 (YK)	HW-T,352°,2.8	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

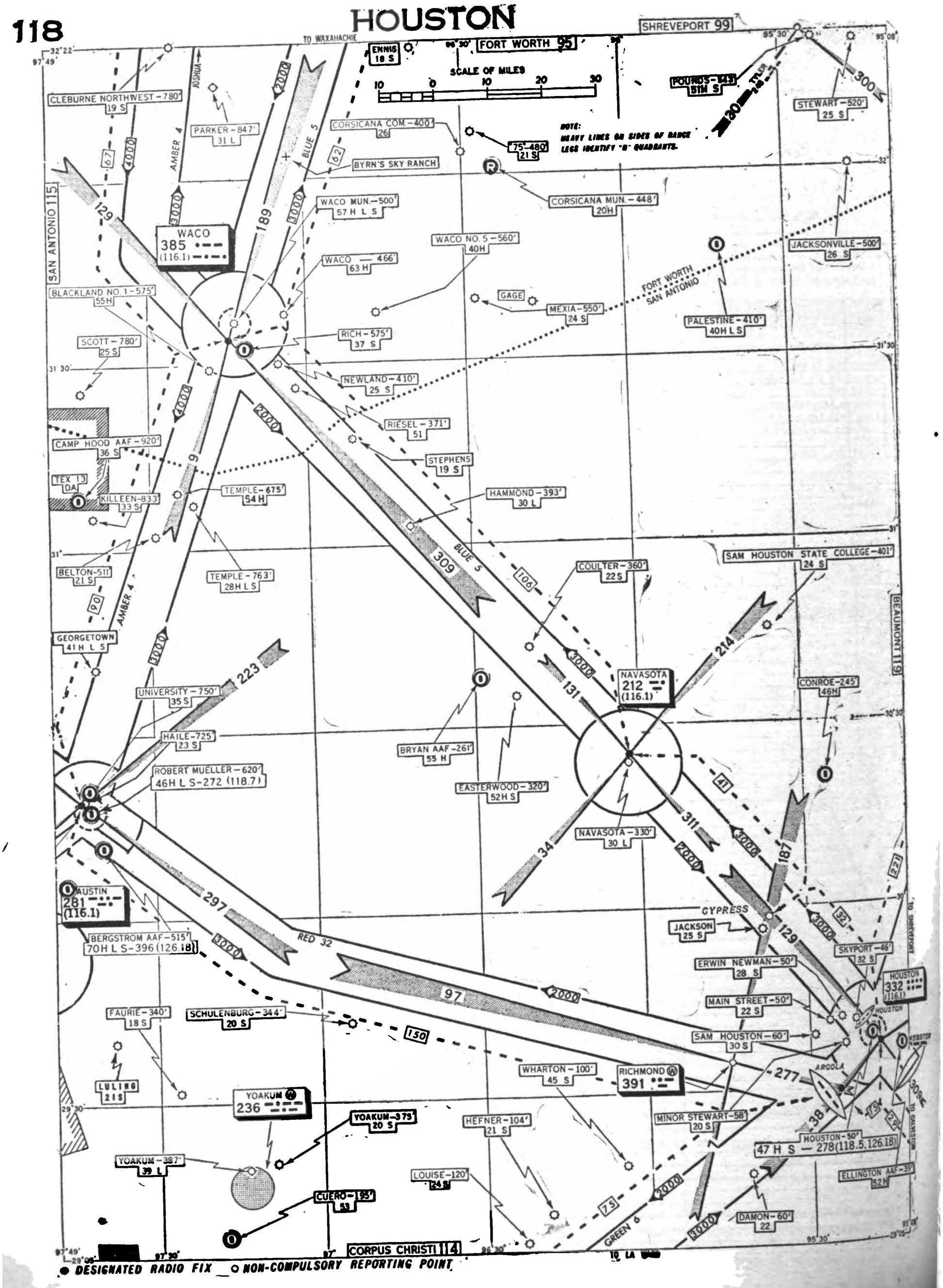
AIRPORTS — TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Belton	1.6 WSW;hwy N	511	21 S1	73,80 oct.No storage.
(A) Bergstrom (Austin) (A)	7 SE	515	70h R1 L5 S6	73,100 oct.No storage.Pole NE,NW.
Blackland #1 (Waco)	11 WSW;RR S	575	55h	
(A) Bryan AAP (A)	7 SSW;riv SSW	261	55h	INACTIVE.
Cameron Airpark (NC)	1.7 N;RR,hwy W	402	29	Bldg NKE
(A) Camp Hood Landing Field (Killeen)	2 NE	920	36 S1	CLOSED. (A)
Cleburne Northwest (Cleburne)	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(P) Conroe	3.5 NE;hwy W	245	46h	
Corsicana, com.	2.8 SW;bet rds	400	26	
mun.	5.6 SE;RR E	448	20h	UNUSABLE.Acft parked entire fld.
Coulter (Bryan)	4 NE;hwy NW	360	22 S6	80 oct.5' fence SW.
Cuero	3.1 N;RR SE	195	53	
Damon	3 ESE;hwy WSW	60	22	4'fence sur fld.
(P) Easterwood (College Station)	2.8 SW	320	52h S6	80 oct.
(A) Ellington (Houston)(A)	15 SE;RR W	39	52h	INACTIVE.
Ennis	1.5 NW;RR E	540	18 S4	Ltd 73 oct.No storage.
Erwin-Newman (Houston)	5 SSW;hwy N	50	28 S6	80 oct.
Faurie (Gonzales)	2 NNE;hwy E	340	18 S2	80 oct.Trees N,S.
Georgetown	3.3 N;hwy E	789	41h L5 S4	80,91 oct.
Haile (Austin)	4.1 NE;RR E	725	23 S6	80,91 oct.Poles ESE.
★ Hammond Int.16,GS-WC	2.5 SSE;RR W	393	30 L3	
Hefner (El Campo)	1.5 WSW;RR SE	104	21 S2	80 oct.Pole line S,SE.
HOUSTON	9 SSE;hwy W	50	47h R2 L5 S6	73,80,91,100 oct.
Jackson (Cypress)	4 SE;hwy S	145	25 S6	80 oct.
Jacksonville	3 N;RR E	500	26 S6	73,80 oct.Pole line ENE.
Killeen	3.6 SE;RR NNE	833	33 S1	73 oct.Sign board N.
Louise	1.6 E;RR W	120	24 S1	Ltd 80 oct.Pole line N,S.
Luling	1.1 SE;hwy NE	418	21 S1	80 oct.Pole lines sur fld.
Madisonville Emergency (NC)	0.8 NW;hwy E	400	18	
Main Street (Houston)	6.5 SW;hwy SE	50	22 S6	80 oct.
Mexia	1 SE;RR NW	550	24 S2	80 oct.
Minor Stewart (Houston)	10 S;RR W	58	20 S6	80 oct.
★ Navasota Int.10,GS-WC	2.5 ENE;RR NNW	330	30 R1 L3	
Newland (Waco)	4.5 SSE;RR NE	410	25 S6	80,91 oct.
Palestine	4.5 WNW;hwy N	410	40h L5 S6	80,91 oct.
★ Parker Int.48,JI-FV	0.6 N;hwy W	847	31 L3	
(P) POUNDS (Tyler)	5.5 W;hwy N	543	51h R1 L5 S1	80,91 oct.Ctc lgts prior req.
Rich (Waco)	3 WSW;hwy SW	575	37 L4 S6	73,80,91 oct.Poles SSE,SE.Fld lgts prior req.
Riesel (Waco)	10.5 SE	371	51	
ROBERT MUELLER (Austin)	3.5 NE;RR SW	620	46h R2 L5 S6	80,91 oct.
St. Edwards (Austin) (NC)	3.5 S	700	22	
Sam Houston (Houston)	10.5 SW;RR S	60	30 S6	73,80 oct.
Sam Houston State College (Huntsville)	2.5 NW;RR E	401	24 S2	80 oct
Schulenburg	2.2 N;hwy W	344	20 S4	73 oct.Pole line W.
Scott (Gatesville)	1.8 E;hwy N	780	25 S1	80 oct.Pole line NW.
Seventy-Five (Corsicana)	1.8 N;RR W	480	21 S6	73 oct.No storage.Poles NW.
Skyport (Houston)	5 S;hwy N	46	32 S4	80 oct.
Sportsman (Houston)	6 ENE;RR N	60	30 S4	80 oct.
Stephens (Marlin)	2 ESE;RR N,SSW	318	19 S2	80 oct.Cattle on fld.Pole W.
Stewart (Tyler)	2.5 E;hwy N	520	25 S6	80 oct.Poles W.
Taylor	2.2 WNW;RR S	520	24 S4	73 oct.
Temple	5.5 NW;rd SW,NW	675	51h	
Temple 40, JI-FV	2 NNW;hwy SW	763	26h L3 S4	73,80 oct.
University (Austin)	6 NNE;RR W	750	35 S6	80 oct.
Waco	7 NNE;bet RRs	466	63h	
WACO MUNICIPAL	6 NW;lake S	500	57h R1 L5 S4	80,91 oct.
45 (Prairie Hill)	2 S;hwy N	560	40h	
Wharton	1.8 ENE;RR N	100	45 S2	80 oct.
Yoakum	4 N;hwy W	375	20 S6	80 oct.
★ Int.7,JR-HU	5 NW;hwy S	387	39 L3	
Gage (Teague)	1.7 N		22 S2	80 oct.Data unverified.
→ Byrn's Sky Ranch (Hillsboro)	5.8 NE	820	25 S6	80 oct. Data unverified.

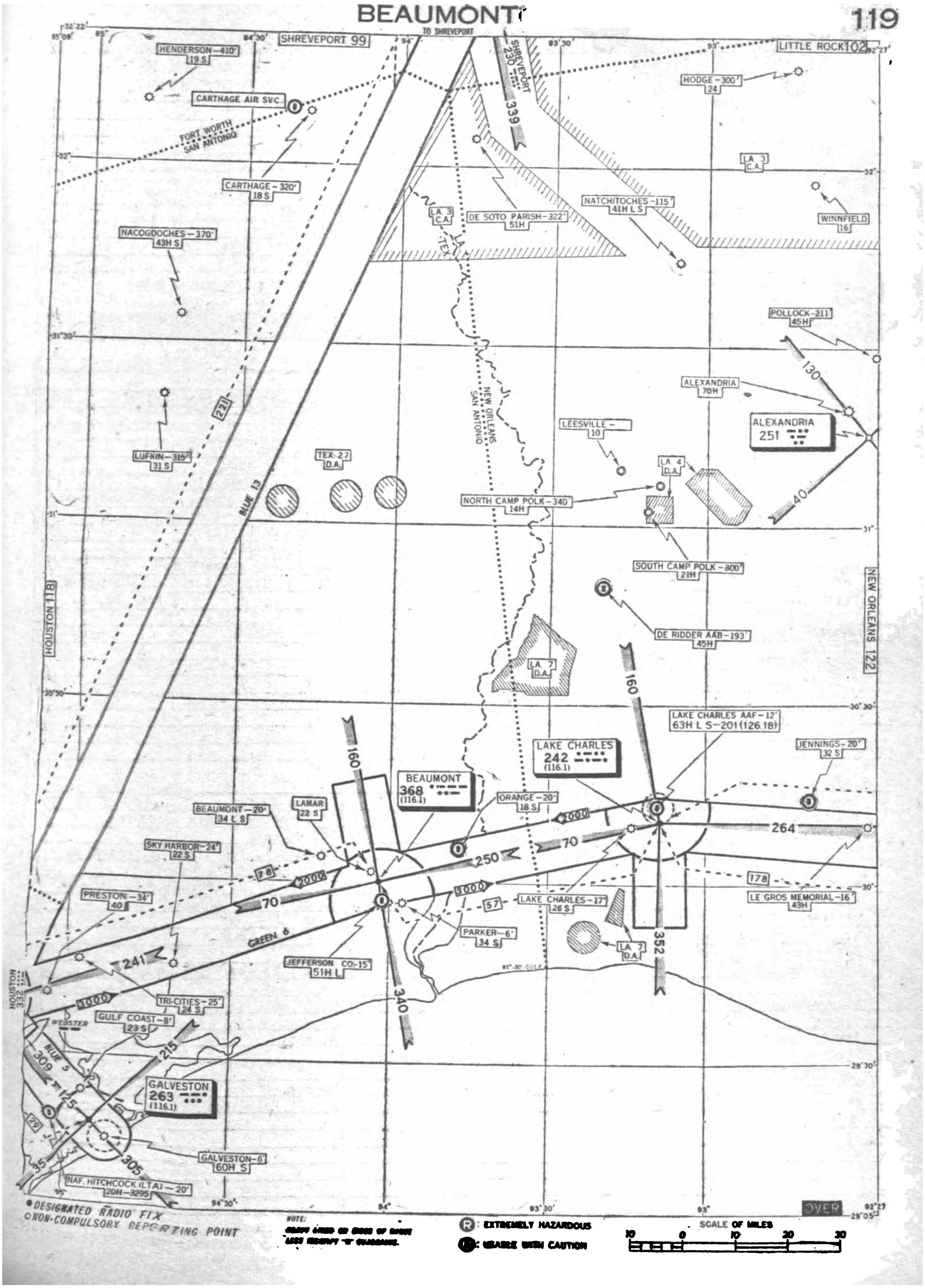
H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

B-3793-0141

HOUSTON


SHREVEPORT 99
TO WAXAHACHIE
ENNIS 18 S
FORT WORTH 95
SCALE OF MILES
10 0 10 20 30
POUNDS-843 5TH S
TYLER
STEWART-520' 25 S
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
CLEBURNE NORTHWEST-780' 19 S
PARKER-847' 31 L
CORSICANA COM.-400' 26
75-480' 21 S
BYRN'S SKY RANCH
CORSICANA MUN.-448' 20H
WACO MUN.-500' 57 H L S
WACO 385 (116.1)
WACO NO. 5-560' 40H
WACO — 466' 63 H
JACKSONVILLE-500' 26 S
FORT WORTH SAN ANTONIO
GAGE
MEXIA-550' 24 S
PALESTINE-410' 40H L S
BLACKLAND NO. 1-575' 55H
SCOTT-780' 25 S
RICH-575' 37 S
NEWLAND-410' 25 S
RIESEL-371' 51
STEPHENS 19 S
CAMP HOOD AAF-920' 36 S
TEX DA
KILLEEN-833' 33 S
TEMPLE-675' 54 H
HAMMOND-393' 30 L
TEMPLE-763' 28H L S
BELTON-511' 21 S
SAM HOUSTON STATE COLLEGE-401' 24 S
COULTER-360' 22 S
GEORGETOWN 41 H L S
UNIVERSITY-750' 35 S
HAILE-725' 23 S
BRYAN AAF-261' 55 H
EASTERWOOD-320' 52H S
NAVASOTA 212 (116.1)
CONROE-245' 46H
ROBERT MUELLER-620' 46H L S-272 (118.7)
NAVASOTA-330' 30 L
AUSTIN 281 (116.1)
BERGSTROM AAF-515' 70H L S-396 (126.18)
CYPRESS
JACKSON 25 S
ERWIN NEWMAN-50' 28 S
SKYPORT-46' 32 S
HOUSTON 332 (116.1)
MAIN STREET-50' 22 S
SAM HOUSTON-60' 30 S
FAURIE-340' 18 S
SCHULENBURG-344' 20 S
WHARTON-100' 45 S
RICHMOND 391
ARCOLA
LULING 21 S
YOAKUM 236
YOAKUM-379' 20 S
HEFNER-104' 21 S
MINOR STEWART-58' 20 S
HOUSTON-50' 47 H S — 278(118.5,126.18)
YOAKUM-387' 39 L
LOUISE-120' 24 S
CUERO-95' 59
ELLINGTON AAF-39' 52 H
DAMON-60' 22
CORPUS CHRISTI 114
TO GALVESTON
TO SHREVEPORT
TO LA
SAN ANTONIO 115
BEAUMONT 119
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

BEAUMONT


TO SHREVEPORT
SHREVEPORT 99
SHREVEPORT 230
339
LITTLE ROCK 102
HENDERSON – 410'
19 S
CARTHAGE AIR SVC.
FORT WORTH
SAN ANTONIO
CARTHAGE – 320'
18 S
HODGE – 300'
24
LA. 3 C.A.
NACOGDOCHES – 370'
43H S
DE SOTO PARISH – 322'
51H
NATCHITOCHES – 115'
41H L S
WINNFIELD
16
LA. 3 C.A.
TEX.
POLLOCK – 211'
45H
130
ALEXANDRIA
70H
ALEXANDRIA
251
LUFKIN – 315'
31 S
221
NEW ORLEANS
SAN ANTONIO
LEESVILLE –
10
TEX. 27 D.A.
LA. 4 D.A.
BLUE 13
NORTH CAMP POLK – 340'
14H
40
SOUTH CAMP POLK – 300'
21H
HOUSTON 118
NEW ORLEANS 122
DE RIDDER AAB – 193'
45H
LA. 7 D.A.
160
LAKE CHARLES AAF – 12'
63H L S – 201 (126.18)
LAKE CHARLES
242
(116.1)
JENNINGS – 20'
32 S
BEAUMONT
368
(116.1)
ORANGE – 20'
18 S
BEAUMONT – 20'
34 L S
LAMAR
22 S
2000
264
70
250
SKY HARBOR – 24'
22 S
78
2000
178
3000
57
LAKE CHARLES – 17'
26 S
PRESTON – 34'
40
70
LE GROS MEMORIAL – 16'
43H
GREEN 6
PARKER – 6'
34 S
352
241
JEFFERSON CO. – 15'
51H L
LA. 7 D.A.
HOUSTON
332
3000
TRI-CITIES – 25'
24 S
GULF COAST – 8'
23 S
WEBSTER
340
215
BLUE 5
309
125
GALVESTON
263
(116.1)
29
35
305
GALVESTON – 6'
60H S
NAF. HITCHCOCK (LTA) – 20'
20H – 3295
95°
94°30'
94°
93°30'
93°
92°27'
29°30'
29°05'
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
R: EXTREMELY HAZARDOUS
C: HEADING WITH CAUTION
SCALE OF MILES
30 0 10 20 30

BEAUMONT

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	251 (DAI)	MRAWZ,310°,5.7	(4)
LAKE CHARLES	242(LC)(116.1)	SBRAZ-VDT	(4);116.1
Lake Charles AAF	201 (126.18)	CA:340°,2.3	(4) only
TEXAS			
BEAUMONT (Jefferson Co.)	368(JU)(116.1)	BMRLZ-VDT,160°,3.8	(4);116.1
GALVESTON	263(GS)(116.1)	SBMRLZ-VDT,125°,4.2	(4);116.1
HITCHCOCK NAF-LTA-HTA	3295	CN	3105,6390 (days)
WEBSTER FM	(- -)	FM,129°,9.3	Houston

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — LOUISIANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ALEXANDRIA	5.5 W;riv 2N	86	70h	
De Quincy (NC)	1.5 SW;RR NW	78	24	Cattle on fld.Trees N,E.
(A) De Ridder AAB (A)	3.5 WSW;RR S	193	45h	INACTIVE.
(P) De Soto Parish(Mansfield)	4.3 NW;hwy S	322	51h	
Hart (Many)(NC)	1.8 SSW;RR E	242	24	Trees NNE.
Hodge	0.5 ENE;hwy NW	300	24	Cattle on Fld.
Jennings	1.4 NNW;RR SW	20	32 S2	80,91 oct.Pole line E.
Lake Charles	5.2 SSW;hwy N	17	26 S6	80 oct.Pole line N. Rnwy data unver
(A,N) LAKE CHARLES AAF (A)	4 ESE;RR NE	12	63h R2 L5 S6	91,100 oct.JP-1.No storage.
(A) Leesville Landing Strip	2 NW		10	L-type acft. (A)
Le Gros Mem'l (Crowley)	6.5 WSW;RR N	16	43h L5	Ctc lgts prior req.
McArthur (Alexandria)	2.8 W;hwy E,N	86	12 S1	Ltd 80 oct.Trees N,S.
(P) Natchitoches	1.5 SSW;RR E	115	41h L5 S6	80 oct.,ltd 90 oct.Ctc lgts prior req. No bcn.
(A) North Camp Polk Landing Strip (Camp Polk)(A)	6 NE	340	14h	
Oakdale (NC)	3 W;hwy N	123	27	Trees WSW,ENE.
Pollock	4.5 SW	211	45h	
(A) South Camp Polk Landing Strip (Camp Polk)(A)	Adj E	300	21h	
Winnfield	3 NW;hwy E	600	16	Trees N.
TEXAS				
Angelina Co. (Lufkin)(NC)	7.5 SSW;RR W	288	42	Cattle on fld.
Beaumont	6.8 W;bet RRs	28	34 L3 S6	73,80 oct.Fld lgts prior req.
Carthage	2 E;hwy N	320	18 S1	Ltd 80 oct.
" Air Service	1.3 W;hwy N,S	310	30 S2	80,91 oct. Pole line N.Trees E,W.
GALVESTON	3.5 WSW;Gulf S	6	60h R1 S6	80,91 oct.
Gulf Coast (Texas City)	2.8 WNW;hwy N	8	23 S6	Ltd 80 oct.No storage.Pole line N.
Henderson	2.1 WNW;hwy S	410	19 S2	73 oct.
(N) Hitchcock NAF(LTA)(N)	2.3 SW;RR ENE	20	20h R1	
Humphrey (Goose Creek)(NC)	4 NNE;RR E	34	24	Pole line NW,W.
(P) Jefferson Co. (Beaumont)	9.8 SSE;hwy NE	15	51h R1 L5	
Lamar (Beaumont)	4 SE;riv NE	17	22 S4	80 oct.No sto.Poleline N,S.
Lufkin	2 NW;hwy N	315	31 L1 S6	73,80 oct.
Nacogdoches	4 WSW;hwy E	370	43h S5	80,91 oct.
Orange	2.6 W;RR S	20	18 S1	73 oct.
Parker (Port Arthur)	4 NW;RR NE	6	34 S6	80 oct.
Preston (Houston)	2.5 WNW LaPorte	34	40	
Richter (Kirbyville)(NC)	1.5 S;RR E	175	16	
Sky Harbor (Anahuac)	0.3 S;hwy N	24	22 S1	80 oct.
Tri-Cities (Goose Creek)	2.6 N;RR E	25	24 S2	80 oct.Pole line SE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARATARIA FM	(- -)	FM, 171°, 20	New Orleans
BATON ROUGE (Harding)	347 (RX)	MRLWZ, 128°, 3.4	
LAFAYETTE	227 (UO)(116.1)	MHVT	(4): 116.1
LA PLACE FM	(- - -)	FM, 271°, 16.8	New Orleans
MADISONVILLE FM	(- - - -)	FM, 353°, 32	New Orleans
MOISANT AIRPORT (New Orleans)	278 (118.3)(126.18)	C (ILS)	(4): 131.9, 118.3, 126.18
NEW ORLEANS (Moisant)	338 (NO)(116.1)	SBRAZ-VDT, 271°, 3.2	(3):116.1
New Orleans Airport	382 (126.18)	CA	(4) only.
New Orleans NAS	323 (142.74)	CN	(3); 142.74 (8-sunset)
NEW ORLEANS FM	(-)	FM, 63°, 11	New Orleans

MISSISSIPPI

JACKSON AIRPORT	278(126.18)(118.7)	C	(4):126.18,118.7,131.9

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
MOISANT, LA.	109.9	333.8	100° Mag.	IM ·····(.04)	MM	OM --(4.5)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

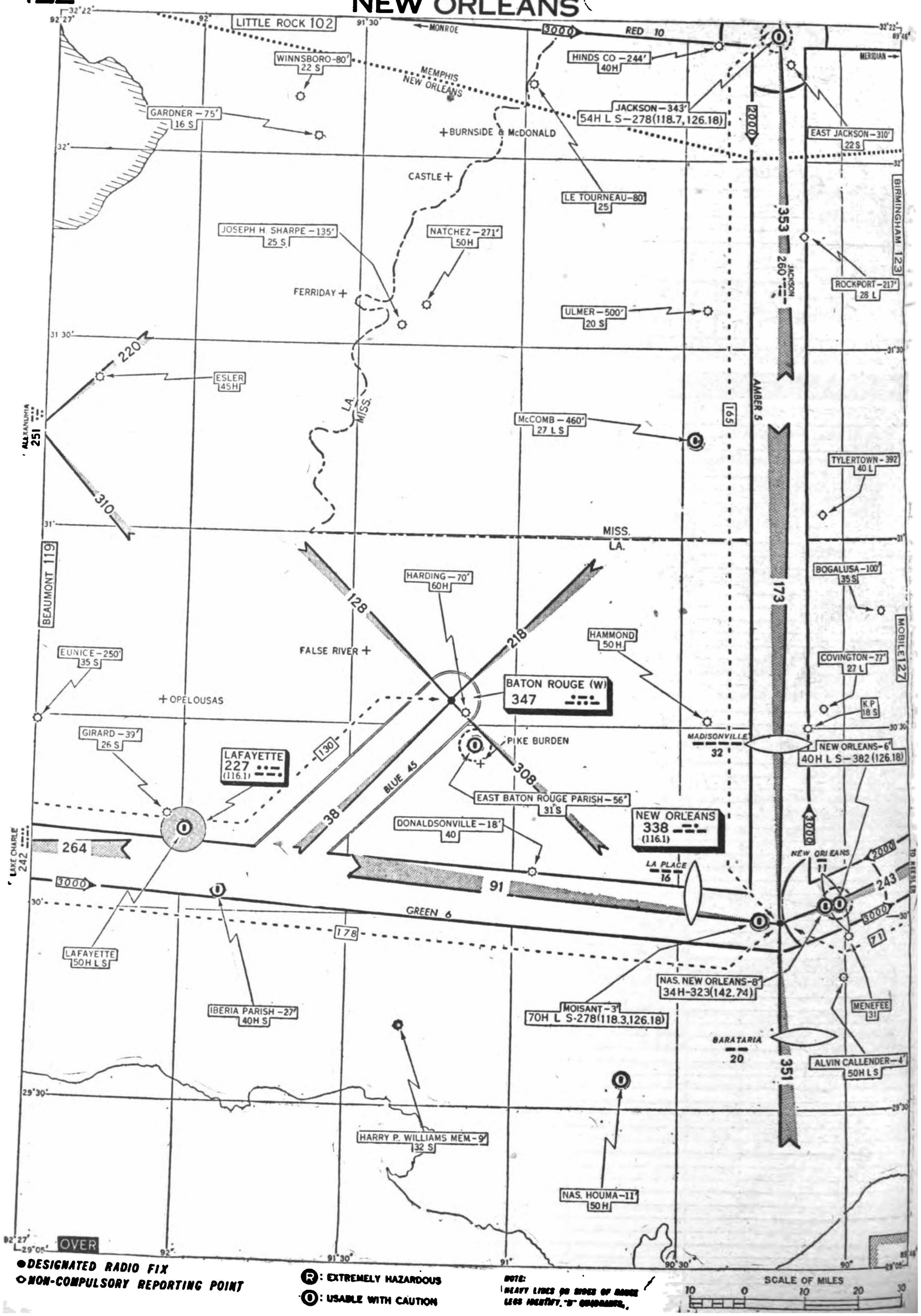
AIRPORTS — LOUISIANA

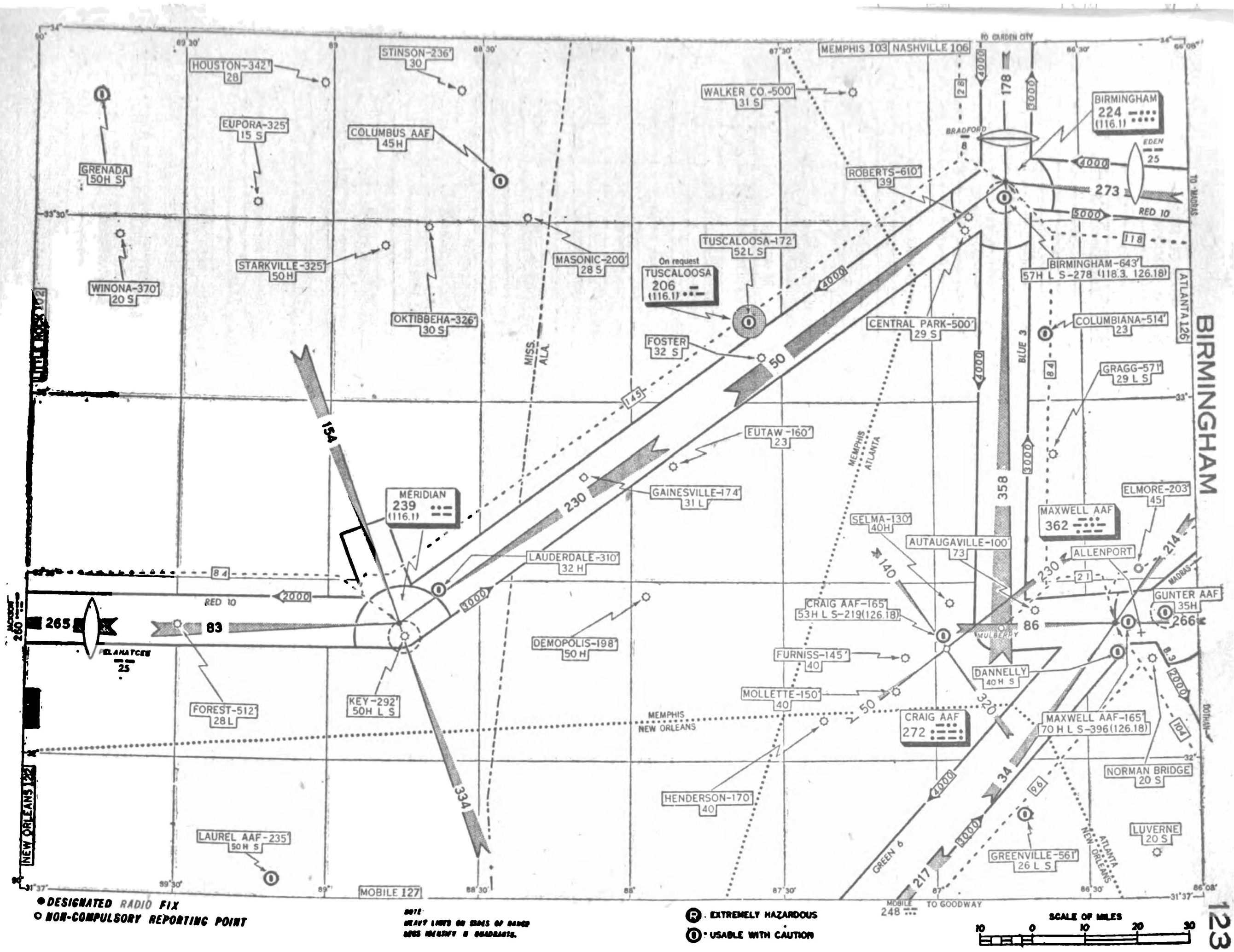
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alvin Callender (New Orleans)	9 SSE; RR E	4	50h L5 S4	73, 80, 91 oct.
Bogalusa	2.4 N; RR E	100	35 S6	73, 80 oct. No sto. Pole S.
Burnside & McDonald (Kewaltton)	1 WSW	77	50	Data not verified.
Castle (St. Joseph)	2 N	75	20 S4	80 oct. No sto. Data not verified.
Chapman (New Orleans)(NC)	8.5 NE; lake N	4	22	15' trees NW. Cattle on field.
* Covington Int. 3, MO-LS	6 NNE; hwy W	77	27 L3	Pole line W.
* Donaldsonville Int. 26, MO-NO	3 ENE; hwy W	18	40 L3	Levee W. Closed ngts.
East Baton Rouge Parish (Baton Rouge)	4 E; hwy N, E	56	31 S4	80, 91 oct. Pole line S.
Esler (Alexandria)	13 NE; Bayou S	92	45h	
Eunice	1.7 W; hwy N	250	35 S2	80 oct.
False River (New Roads)	1.5 W	30	25 S1	80 oct. Data not verified.
Ferriday	1 N	55	18	Data not verified.
Gardner (Gilbert)	1 E; hwy S	75	16 S1	Ltd 73 oct.
Girard (Lafayette)	2.5 NW; hwy E	39	26 S6	80, 87 oct. Obsts sur fld.
Grand Isle (NC)	2.6 NE; hwy NW	4	22	
Hammond	2 ENE; RR S	40	50h	
HARDING (Baton Rouge)	5.8 NNE	70	60h	E of river bend.
Harry P. Williams Mem'l(Patterson)	2 WNW; bet RR,hwy	9	32 L2 S2	73 oct. No bcn. Lgts prior req. Pole line NW.
(H) Houma NAS (LTA)(N)	3.1 ESE; RR NE	11	50h	INACTIVE.
Iberia Parish (New Iberia)	5 NW; RR NE	27	40h L1 S6	73-91 oct. Bcn prior req.
K-P (Covington)	1.6 NW; RR S	27	18 S2	80 oct.
Lafayette	1.5 SE; RR W	40	50h R1 L5 S1	91 oct. Pole line S.
Menefee (New Orleans)	5.2 E; riv S	1	31	Pole line S.
(H) MOISANT INTERNATIONAL(New Orleans)	11 W; riv S	3	70h R3 L6 S1	80,91,100 oct. Avail. only to Army, Navy, Airlines.
(A) New Orleans	6.5 NNE; RR S	8	40h R1 L4 S4	91, 100 oct; 100 oct Govt contract.
(H) New Orleans NAS (N)	4.6 N; on lake	7	34h R1	Tower NE.
Opelousas	1.5 NE	35	18	Data not verified.
Pike Burden (Baton Rouge)	5 SE	35	50 S1	80 oct. Data not verified.
Texaco (New Iberia)(NC)	2.6 N; hwy W	21	18	Poles W, WSW. Cattle on fld.
Winnsboro	1.2 ESE; RR SW	80	22 S1	80 oct.

MISSISSIPPI

East Jackson (Jackson)	3.1 SSE; hwy NW	310	22 S6	80 oct. Trees N.
Hinds County (Jackson)	12.8 W	244	40h	
(A,N) JACKSON	3 NW; RR SW	343	54h R2 L5 S6	80, 91, 100 oct. Tank, stack E.
Joseph H. Sharpe (Natchez)	1.8 ESE; RR S	135	25 S2	73 oct.
LeTourneau (Yokena)	2.5 NW; riv W	80	25 L2 S4	No fuel. Lgts prior req. Caution - wet.
McComb	1.3 NW; hwy E	460	27 L3 S6	80,91 oct. No bcn; lgts prior req. Obsts sur fld.
(P) Natchez	7.1 ENE; RR S	271	50h	
* Rockport Int. 12, MO-LS	1.5 E; riv W	217	28 L3	
* Tylertown Int. 7, MO-LS	6 SE; road E	392	40 L3	
Ulmer (Brookhaven)	1.5 NNE; RR W	500	20 S4	73 oct. No sto. Pole line W.

NEW ORLEANS


LITTLE ROCK 102
MONROE
3000
RED 10
HINDS CO – 244'
40H
MERIDIAN
WINNSBORO – 80'
22 S
MEMPHIS
NEW ORLEANS
JACKSON – 343'
54H L S – 278 (118.7, 126.18)
2000
GARDNER – 75'
16 S
+ BURNSIDE & McDONALD
EAST JACKSON – 310'
22 S
CASTLE +
LE TOURNEAU – 80'
25
BIRMINGHAM 123
353
JOSEPH H. SHARPE – 135'
25 S
NATCHEZ – 271'
50H
ROCKPORT – 217'
28 L
FERRIDAY +
ULMER – 500'
20 S
JACKSON
260
220
ESLER
45H
ALEXANDRIA
251
LA.
MISS.
McCOMB – 460'
27 L S
165
AMBER 5
TYLERTOWN – 392'
40 L
310
MISS.
LA.
BEAUMONT 119
BOGALUSA – 100'
35 S
HARDING – 70'
60H
128
218
173
MOBILE 127
HAMMOND
50H
EUNICE – 250'
35 S
FALSE RIVER +
COVINGTON – 77'
27 L
BATON ROUGE (W)
347
+ OPELOUSAS
KP
18 S
GIRARD – 39'
26 S
PIKE BURDEN
MADISONVILLE
32
NEW ORLEANS – 6'
40H L S – 382 (126.18)
LAFAYETTE
227
(116.1)
130
BLUE 45
308
38
EAST BATON ROUGE PARISH – 56'
31 S
NEW ORLEANS
338
(116.1)
LAKE CHARLES
242
264
DONALDSONVILLE – 18'
40
LA PLACE
16
3000
NEW ORLEANS
11
2000
243
91
GREEN 6
178
71
LAFAYETTE
50H L S
NAS. NEW ORLEANS – 8'
34H – 323 (142.74)
IBERIA PARISH – 27'
40H S
MOISANT – 3'
70H L S – 278 (118.3, 126.18)
MENEFEE
31
BARATARIA
20
ALVIN CALLENDER – 4'
50H L S
351
HARRY P. WILLIAMS MEM. – 9'
32 S
NAS. HOUMA – 11'
50H
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS INDICATE "B" BOUNDARIES.
SCALE OF MILES
10 0 10 20 30


BIRMINGHAM
HOUSTON-342'
28
STINSON-236'
30
WALKER CO.-500'
31 S
MEMPHIS 103 NASHVILLE 106
TO GARDEN CITY
BIRMINGHAM
224
(116.1)
EUPORA-325'
15 S
COLUMBUS AAF
45H
BRADFORD
EDEN
25
GRENADA
50H S
ROBERTS-610'
39
273
RED 10
TO MACRAS
WINONA-370'
20 S
STARKVILLE-325'
50H
MASONIC-200'
28 S
TUSCALOOSA-172'
52L S
On request
TUSCALOOSA
206
(116.1)
BIRMINGHAM-643'
57H L S-278 (118.3, 126.18)
ATLANTA 126
OKTIBBEHA-326'
30 S
MISS.
ALA.
CENTRAL PARK-500'
29 S
COLUMBIANA-514'
23
FOSTER
32 S
50
GRAGG-571'
29 L S
154
EUTAW-160'
23
MEMPHIS
ATLANTA
GAINESVILLE-174'
31 L
MERIDIAN
239
(116.1)
230
ELMORE-203'
45
SELMA-130'
40H
MAXWELL AAF
362
AUTAUGAVILLE-100'
73
ALLENPORT
LAUDERDALE-310'
32 H
RED 10
265
83
ELANATCHE
25
DEMOPOLIS-198'
50 H
CRAIG AAF-165'
53H L S-219(126.18)
GUNTER AAF
35H
266
FURNISS-145'
40
DANNELLY
40 H S
MOLLETTE-150'
40
FOREST-512'
28 L
KEY-292'
50H L S
MEMPHIS
NEW ORLEANS
CRAIG AAF
272
MAXWELL AAF-165'
70 H L S-396(126.18)
NORMAN BRIDGE
20 S
HENDERSON-170'
40
334
LAUREL AAF-235'
50 H S
LUVERNE
20 S
GREENVILLE-561'
26 L S
ATLANTA
NEW ORLEANS
NEW ORLEANS 122
MOBILE 127
MOBILE
248
TO GOODWAY
DOTHAN
358
178
BLUE 3
GREEN 6
MULBERRY
MADRAS
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE
DOES NOT EXIST IN CHARACTER.
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

BIRMINGHAM

RADIO — ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, SEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
BIRMINGHAM	224(BH) (116.1)	SBRAZ-VDT	(3); 116.1
Birmingham Airport	278 (126.18) (118.3)	AC, 178°, 3	(4); 116.1,140.1,131.9,126.18,118.3
BRADFORD FM	(-)	FM, 358°, 8	Birmingham
CRAIG (Selma)(Army)	272 (DPP)	MRLZ	(3);126.18
Craig Field	219 (126.18)	CA, 320°, 2.5	(3); 126.18
EDEN FM	(- -)	FM; 93°, 25.1	Birmingham
GUNTER FIELD(Montgomery)	201 (126.18)	CA	INACTIVE
MAXWELL (Montgomery)(Army)	362 (DXW)	SBRAZ	(4)
Maxwell Field	396 (126.18)	CA; 86°, 2	(4); 126.18
TUSCALOOSA	206(TU)(116.1)	MHVT	(4); 116.1

MISSISSIPPI

MERIDIAN (Key)	239(UM)(116.1)	SBRAZ-VDT;154°,2.8	(4); 116.1
PELAHATCHEE FM	(- -)	FM, 85°, 25	Jackson

S-Simultaneous Range and Voice W-Without Voice Z-VHF Station Location Marker at Range Station (3)-3105.4495.6210 kcs (4)-3105 4495.6210.3117 5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — ALABAMA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allenport (Montgomery)	4 SE	175	30 S5	80,91oct.183' twr NW.Data unver.
Autaugaville (Selma)	20.5 W	100	73	
(A) BIRMINGHAM	5.5 NE;RR S	643	57h R2 L5 S3	73-100oct.JP-1.Rdo rec req.
Central Park(Birmingham)	5.2 SW;RR E	500	29 S6	80 oct. No sto.
Columbiana	1.5 WNW	514	23	Lgt acft only.
(A) Craig (Selma)(A)	4.8 SSE	165	53h R2 L5 S6	91,100 oct.
DARNELLY (Montgomery)	7.5 SW;RR E	219	40h S1	80,91 oct.
(P) Demopolis	7.8 WSW;riv NW	198	50h	
(A) Elmore (Montgomery)(A)	10 N;hwy N	203	45	INACTIVE.
Eutaw	2 SE;hwy N	160	23	Pole line W.
Foster(Tuscaloosa)	5.5 S	236	32 S4	Ltd 73 oct.Pwr line E.
Furniss (Selma)	10 SSW	145	40	
* Gainesville Int,55,FV-AG	2 S;hwy W	174	31 L2	
Gragg,27,PS-TM(Clanton)	2.2 NE;creek S	571	29 L3 S2	80,91oct. Hill E.
Greenville,24,NO-AG	5.5 WNW;hwy S	561	26 L2 S4	80 oct.
(A) Gunter (Montgomery)(A)	5 NE	221	35h	INACTIVE.
Henderson (Selma)	29 SW; riv W	170	40	
Luverne	1.7 NNW;RR E	300	20 S1	73 oct.Pole line W.
(A) Maxwell(Montgomery)(A)	3 WNW	165	70h R2 L5 S6	73,91,100oct.No sto.JP-1
Mollette (Selma)	16.2 SSW	150	40	
Norman Bridge(Montgomery)	5.8 S;RR E	172	20 S4	73 oct. No sto.
Roberts (Birmingham)	3 W;RR N	610	39	
Selma-Selfield (Selma)	4 ENE;RR S	130	40h	
Tuscaloosa,59,FV-AG	3 NW;RR N	172	52 R1 L3 S6	73,80 oct.Pole,trees N.
Walker County (Jasper)	2.5 NNE;RR W	500	31 S2	80 oct.

MISSISSIPPI

(A) Columbus AAF (A)	10 N;RR E	205	45h	INACTIVE.
Eupora	1 NE;hwy S	325	15 S2	80 oct.Hill NW.
Forest,46,FV-AG	1 W;RR S	512	28 L3	
Grenada	3 N;RR S	197	50h L5 S2	80,91 oct.Ctc lgts req.
Houston	1.5 SW;hwy SE	342	28	Trees W,SE,N; bldg SE.
KEY (Meridian)	3.5 SW;RR E	292	50h R1 L5 S4	80,91 oct. Ctc lgts prior req.
Lauderdale Civil(Meridian)	9 NNE;hwy E	310	32h	
(A) Laurel AAF	3 SW;RR SE	235	50h S2	80,91 oct. civil acft.Army inactive.
Masonic (Columbus)	3.9 ENE;hwy S	200	28 S2	80 oct.
O'Keefe (Newton)(NC)	1.5 ESE;RR N	363	26	Trees NE,SE,NW.UNUSABLE.
Oktibbeha (Starkville)	7.5 ENE;hwy E	326	30 S6	73 oct.
(P) Starkville (Columbus)	2 SW Starkville	325	50h	
Stinson (Aberdeen)	3 NW;hwy NE	239	30	
Winona	1.3 SSE;RR W	370	20 S4	73,91oct. Lgt acft only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV; (NC)-Not charted. →

NEW OR REVISED DATA

RADIO — ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANNISTON	206 (K J)(116.1)	MHVT	(4); 116.1
TUSKEGEE (Army)	347 (DNL)	BMRLZ	
Tuskegee AAF	219 (126.18)	CA;270°,3.8	(3); 126.18 (7-19)
GEORGIA			
ALBANY (Turner Aux. Fld. #1)	254 (GY)(116.1)	BMRLZ-VDT;298°,2.3	(4); 116.1
ATLANTA	266 (AG)(116.1)	SBRAZ-VDTX	(3); 116.1
Atlanta Airport	278 (118.7) (126.18)	AC (ILS);331°,1.9	(4);126.18,142.74,118.7, 131.9, 126.18
Atlanta (Navy)	323 (NCQ)	MRLWZ	
Atlanta NAS	356 (142.74)	CN; 86°,3.2	3105,4495,3117.5,142.74
EAST POINT LFM	(- - - -)	LFM, 331°,6.5	Atlanta
JONESBORO	219 (H)	FMK; 133°,11	Atlanta
JONESBORO FM	(- -)	FM, 133°, 11	Atlanta
LAWSON, (Columbus)(Army)	379 (DVL)	MRLZ	
Lawson Field	278 (126.18)	CA; 21°, 3.3	(3); 126.18
MACON (Herbert Smart)	209 (UN)(116.1)	BMLZ-VDT;246°,4.8	(4); 116.1
MADRAS FM	(- - -)	FM, 230°, 22.8	Atlanta
MARIETTA AAF	396 (126.18)	CA	4495,6210,126.18 (8-20)
SMYRNA FM	(. - - - - -)	FM, 337°, 22	Atlanta
STONE MOUNTAIN FM	(-)	FM, 55°, 17.25	Atlanta
WARNER-ROBINS (Robins Fld)	284 (126.18)	CA	(3); 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ATLANTA, GA.	109.9		329° Mag.	IM ·-·-·-(.02)	MM	OM --(3.1)
					MMK 201 ·--·(.68)	OMK

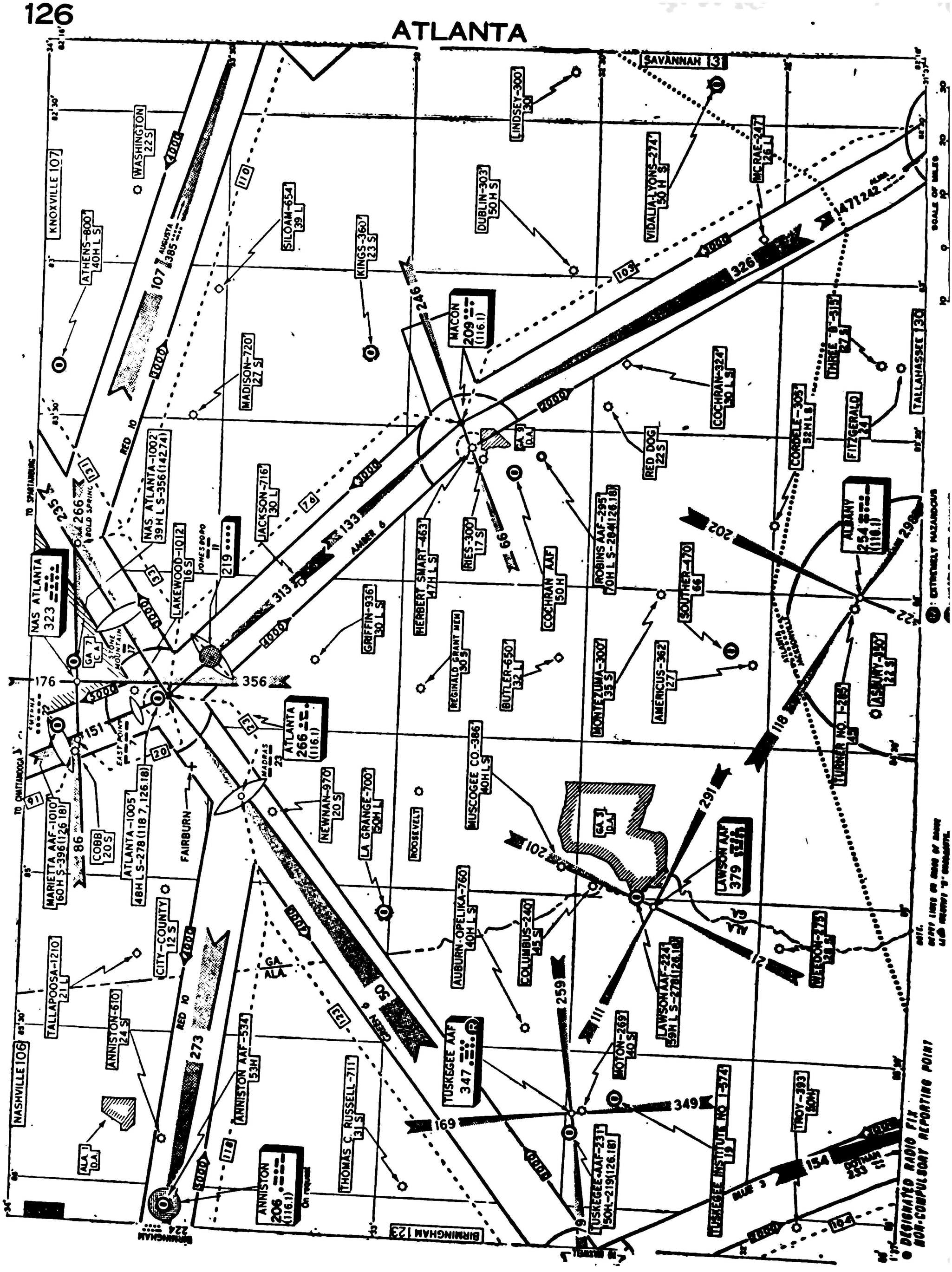
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

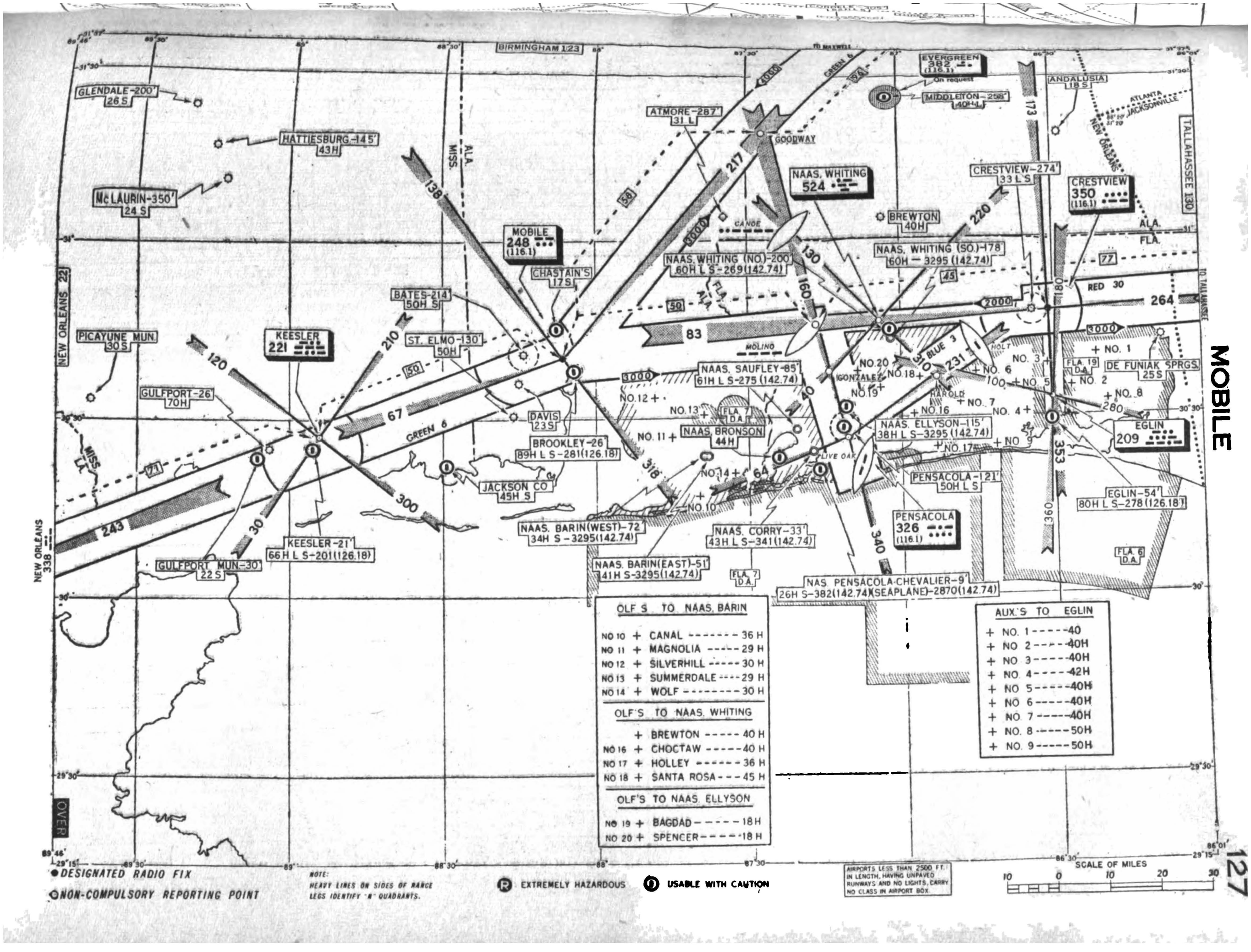
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anniston	5.5 SSW	610	24 S3	80 oct. Pole line W, lgtd.
(A) Anniston AAF (A)	15 SW; hwy N	534	53h R1	INACTIVE.
(P) Auburn-Opelika (Auburn)	2.8 E; RR N	760	40h L5 S5	80 oct. Fld lgts prior req.
Moton (Tuskegee)	3 N; RR, riv E	269	40 S6	73-91 oct. No sto. Twr S end.
Talladega	2.6 NE; RR SE	590	20	Pole line E, hill W.
Thomas C. Russell(Alexander Cy	1.5 SW; hwy E	711	31 S5	80 oct.
(P) Troy	4.8 NNW; rd E	393	50h	
(A) Tuskegee AAF (A)	7.3 NW; RR S	231	50h R2	INACTIVE.
Tuskegee Institute #1	4 SSE; hwy W	574	19	
Weedon (Enfaula)	4.3 NNE; hwy E	275	28 S2	80 oct.
GEORGIA				
Americus	1.5 S; RR W	362	27	Trees E, W, NE.
Ashbury (Dawson)	5.7 SE; RR N	350	22 S1	Ltd 80 oct. Pole NNW.
Athens	3.5 E; RR N	800	40h L4 S6	80, 91 oct.
(A) ATLANTA	8 S; RR N	1005	48h R3 L6 S6	73-100 oct.Rdo rec req.Trees NW.
(N) Atlanta NAS (N)	8.5 NNE; hwy SE	1002	39h R2 L6 S6	100 oct. NAFC.
★ Butler Int,14, T I-AG	0.5 NW; RR S	650	32 L3	Poles S.
City-County (Carrollton)	3.3 NE; hwy E	1200	12 S1	Ltd 73 oct.
Cobb (Marietta)	6.4 SSW; rd S	1050	20 S6	Ltd 80 oct.No sto.Trees NW.
(A) Cochran (Macon) (A)	10 S; RR E	352	50h	INACTIVE.
★ Cochran Int,50,MM-AG	5 NE; rd N	324	30 L2 S6	80 oct. Poles NW, NE, S, SE.
Columbus	1.5 SSE; riv SW	240	45 S4	80 oct.
(P) Cordele	1.6 NNE; RR W	305	52h L3 S1	80 oct.
(N,P) Dublin	4.5 WNW; hwy S	303	50h S1	73 oct.
Fairburn	3.5 SW; RR S		24 S2	80 oct.Hi-line SE. Data not verified.
Fitzgerald	2 SSW; RR W,E	365	24	
Griffin	1.5 S;hwy E	936	30 L3 S6	80 oct. Twr E.
HERBERT SMART (Macon)	4 ESE;hwy W	463	47h R1 L5 S6	80,91 oct.,
★ Jackson Int, 57, MM-AG	4.6 SW; rd S	716	30 L3	Barn E; bldg W.
Kings (Milledgeville)	1.5 NW; RR W	360	23 S4	80 oct. No sto.
(P) La Grange	3 SW; RR ESE	700	50h L2	
Lakewood (Atlanta)	4 S; hwy W	1012	16 S4	80 oct. Pwr line SE end NW-SE strip.
(A) Lawson (Columbus) (A)	9.5 S; riv W	224	59h R2 L5 S6	91,100 oct. No sto.
Lindsey (Swainsboro)	2.3 S; RR W	300	30	Pole line E.
★ McRae Int,47,MM-AG	2 SE; RR NE	247	26 L3	
Madison	2 SSW; RR E	720	27 S2	80 oct. Pwr line SSE.
(A) Marietta AAF (A)	2.5 SE	1010	60h R1 L5 S4	73-100 oct. JP-1. Lgts avail. up to 2000.
Montezuma	1.5 E; RR S,W	300	35 S1	Ltd 80 oct.
Morton (Palmetto)	1.8 NNE; RR SW	1020	24 S6	80 oct.
MUSCOGEE CO.(Columbus)	6 NE; Hwy E	386	40h L5 S6	80,91 oct. Fld lgts prior request.
Newnan Airpark	3.7 SE; RR W	970	20 L1 S1	80 oct.
Red Dog (Cochran)	6.2 NW; RR W	300	22 S4	80 oct. Trees N, E.
Reginald Grant Mem'l(Thomaston)	3.7 NNW;hwy NE	750	30 S4	80 oct. Trees S.
Ries (Macon)	4.5 SE; RR W	300	17 S1	Ltd 80 oct. - emerg. Trees N, E.
(A) Robins (Warner-Robins)(A)	1.5 NE Wellston	275	70h R1 L5 S6	62,73,91,100 oct. JP-1.
Roosevelt (Warm Springs)	3.5 N; hwy W	870	22 S2	80 oct. Trees SE, SW, NW.
★ Siloam Int,7B, AG-CS	1.3 S; road W	654	39 L3	82' mast SE corner N/S strip.
Souther (Americus)	4 NE; RR W	470	66	
★ Tallapoosa Int,73,FV-AG	5.5 SSE	1210	21 L3	Trees SE; house NW.
Three "B" (Fitzgerald)	1.5 N	515	27 S1	80 oct.
Turner #1 (Albany)	15 NE	285	45	
(A) Vidalia-Lyons	3.2 SE; hwy N	274	50h S1	80 oct.
Washington	1.4 NW; RR SE	600	22 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

ATLANTA



● DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT


BIRMINGHAM 123
GLENDALE-200' 26 S
HATTIESBURG-145' 43H
McLAURIN-350' 24 S
PICAYUNE MUN. 30 S
GULFPORT-26 70H
GULFPORT MUN.-30' 22 S
KEESLER 221
KEESLER-21' 66 H L S-201(126.18)
BATES-214' 50H S
ST. ELMO-130' 50H
MOBILE 248 (116.1)
CHASTAIN'S 17 S
DAVIS 23 S
BROOKLEY-26' 89H L S-281(126.18)
JACKSON CO 45H S
ATMORE-287' 31 L
GOODWAY
NAAS. WHITING 524
NAAS. WHITING (NO.)-200' 60H L S-269(142.74)
NAAS. WHITING (SO.)-178' 60H — 3295 (142.74)
NAAS. SAUFLEY-85' 61H L S-275 (142.74)
NAAS. BRONSON 44H
NAAS. BARIN(WEST)-72' 34H S-3295(142.74)
NAAS. BARIN(EAST)-51' 141H S-3295(142.74)
NAAS. CORRY-33' 43H L S-341(142.74)
NAAS. ELLYSON-115' 38H L S-3295 (142.74)
NAS. PENSACOLA-CHEVALIER-9' 26H S-382(142.74)(SEAPLANE)-2870(142.74)
EVERGREEN 382 (116.1) On request
MIDDLETON-258' 40H-L
BREWTON 40H
CRESTVIEW-274' 33 L S
CRESTVIEW 350 (116.1)
ANDALUSIA 18 S
PENSACOLA 326 (116.1)
PENSACOLA-121' 50H L S
EGLIN 209
EGLIN-54' 80H L S-278 (126.18)
DE FUNIAK SPRGS. 25 S
TALLAHASSEE 130
ATLANTA JACKSONVILLE
NEW ORLEANS
ALA.
MISS.
FLA.
GREEN 6
RED 30
BLUE 3
HOLT
MOLINO
CANOE
LIVE OAK
HAROLD
GONZALEZ
FLA. 7 D.A.
FLA. 6 D.A.
FLA. 19 D.A.
NEW ORLEANS 22
NEW ORLEANS 338
MISS. LA.
OVER
OLF S TO NAAS. BARIN
NO 10 + CANAL ------- 36 H
NO 11 + MAGNOLIA ----- 29 H
NO 12 + SILVERHILL ----- 30 H
NO 13 + SUMMERDALE ---- 29 H
NO 14 + WOLF -------- 30 H
OLF'S TO NAAS. WHITING
+ BREWTON ----- 40 H
NO 16 + CHOCTAW ----- 40 H
NO 17 + HOLLEY ------ 36 H
NO 18 + SANTA ROSA --- 45 H
OLF'S TO NAAS. ELLYSON
NO 19 + BAGDAD ----- 18 H
NO 20 + SPENCER ----- 18 H
AUX.'S TO EGLIN
+ NO. 1 ----- 40
+ NO 2 ----- 40H
+ NO 3 ----- 40H
+ NO. 4 ----- 42H
+ NO 5 ----- 40H
+ NO 6 ----- 40H
+ NO. 7 ----- 40H
+ NO. 8 ----- 50H
+ NO. 9 ----- 50H
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "A" QUADRANTS.
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

RADIO

ALABAMA

LOCATION	FREQ.,IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARIN FIELD NAAS(Foley) East Field	3295(142.74)	CN	3105;142.74
BARIN FIELD NAAS(Foley) West Field	3295(142.74)	CN	3105;142.74
BROOKLEY FIELD(Mobile)	281 (126.18)	CA	(4); 126.18
CANOE FM	(. . - - - -)	FM, 310°, 24.9	Whiting NAAS
EVERGREEN (Middleton)	382(EW)(116.1)	MHVT	(4);116.1
MOBILE (Brookley)	248(MS)(116.1)	SBRAZ-VDT;138°, 3	(4);116.1

FLORIDA

CORRY FLD NAAS(Pensacola)	341(142.74)	CN	3105;142.74
CRESTVIEW	350 (HW) (116.1)	SBRAZ-VDT;264°,2.6	(4);116.1
ECLIN (Valparaiso)(Army)	209 (DVQ)	MCLPZ	(Voice 6-24)(3);126.18
Eglin Field	278(126.18)	CA;180°,4	(3);4220,126.18 (6-24)
ELLYSON FLD NAAS (Pensacola)	3295(142.74)	CN	3105;142.74 (8-16)
HOLT FM	(-)	FM, 51°, 31.2	Pensacola
LIVE OAK FM	(- -)	FM, 160°, 6	Pensacola
MOLINO FM	(- - - -)	FM, 340°, 21.4	Pensacola
PENSACOLA	326(KH)(116.1)	SBRAZ-VDT;340°,2.1	(4); 116.1
Pensacola-Chevalier NAS	382 (142.74)	CN	(4);142.74(sunrise-30 mins after sunset.
Pensacola-Chevalier NAS (Seaplane)	2870(142.74)	CN	3105.4495;142.74(730-1630.except Sat,Sun. & holidays).
SAUFLEY FLD NAAS (Pensacola)	275 (142.74)	CN	3105,4495;142.74
WHITING (Milton)(Navy)	524 (AWT)	MRLZ	
Whiting Fld NAAS(North)	269 (142.74)	CN;130°,3.2	3105,4495;142.74
Whiting Fld NAAS(South)	3295(142.74)	CN	3105;142.74(7-22)

MISSISSIPPI

KEESLER(Biloxi)(Army)	221 (DOX)	BMRLZ	(4); 4220
Keesler Field	201 (126.18)	CA; 210°, 2.9	(4); 4220

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs. (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Andalusia	1.7 SSE;RR N	340	18 S1	80 oct.
★ Atmore Int,16,NO-AG	6 NW;at rd int	287	31 L3	
(N) Barin NAAS-East(Foley)	2.7 ESE	51	41h R1 L1 S4	91 oct.
(N) " -West(Foley)	2.7 ESE	72	34h R1 L1 S4	91 oct.
BATES (MOBILE)	10 W;rd N,S	214	50h S6	80,91 oct.
Brewton (old)(NC)	2.5 N;hwy E	100	23	UNUSABLE.
(P) " (new)	3.5 S;riv N	92	40h	
(A) Brookley (Mobile)(A)	3 SSW;RR NW	26	89h R2 L5 S4	62,73,91,100oct.JP-1
(N) Canal OLF (Foley)(N)	8 S;rd W	16	36h	
Chastain's(Prichard)	2.5 NW;RR E	50	17 S1	80 oct.
Davis (Mobile)	12.1 WSW;RR E	180	23 S1	73 oct.
(N) Faircloth (Lillian)(N)	3 NW; bay E	70	37	
(N) Kaisers Tract OLF (Elberta) (N)(NC)	3.3 ENE;hwy S	90	25	
(N) Magnolia OLF (Foley)(N)	5.4 NW	83	29h	
(P) Middleton (Evergreen)	6 WSW; hwy N	258	40h R1 L5	Fld lgts prior req.
St. Elmo	1 WSW; RR S	130	50h	
(N) Silverhill OLF (N)	3.5 WNW	129	30h	
(N) Summerdale OLF (N)	3.5 ENE;RR W	129	29h	
(N) Wolf OLF (Josephine)(N)	1.5 N; bay E	54	30h	

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N) Bagdad OLF (Pensacola)	14 NE;RR SE	111	18h	Use rnwys.(N)
(N) Bronson NAAS(Pensacola(N)	12 WSW;bay W	27	44h	INACTIVE.
(N) Choctaw OLF (Pensacola)	15 ENE	111	40h	(N)
Crestview,21,NO-JX	2.5 N;RR E	274	33 R1 L2 S6	80 oct. No sto.
De Funiak Springs	1 W;RR N	197	25 S1	80 oct. Pwr line N.
(A) Eglin (Valpariso)(A)	1.8 SW;hwy SE	54	80h R2 L5 S4	73-100 oct. JP-1. No sto.
(A) " #1 " (A)	13.7 NNE	238	40h	
(A) " #2 " (A)	6.1 NNE	157	40h	
(A) " #3 " (A)	10 N	192	40h	
(A) " #4 " (A)	6.2 W	92	42h	
(A) " #5 " (A)	10 NW	178	40h	
(A) " #6 " (A)	18.2 WNW;riv NW	136	40h	
(A) " #7 " (A)	19.5 W	133	40h	
(A) " #8 " (A)	10.3 ENE	113	50h	
(A) " #9 " (A)	13.7 WSW	35	50h	
(N) Ellyson NAAS(Pensacola)	7.5 NNE;bay E	115	38h R1 L S6	73,91 oct.E and W flds.CLSD.(N).
Gulf Airpark (Pensacola)	3 NW		17	Data not verified. (NC)
(N) Helm OLF (Pensacola)(N)	12 NW	100	54	(NC)
(N) Holley OLF (N)	1.5 S;riv N	37	36h	
Milton (NC)	3.5 ENE;RR S	150	53	
(P) PENSACOLA	4 NNE;bay E	121	50h R1 L5 S6	80,91 oct.
(N) " NAS (Chevalier)(N)	5.3 SW;RR W	9	26h R1 L S6	91 oct.Flood,obst lgts.
(N) " NAS (Corry)(N)	5 WSW;hwy SE	33	43h R1 L4 S6	91 oct.Obsts N,E,W.
(N) " OLF #1 (N)(NC)	14 NW;riv 3 W	100	46	
(N) " OLF #5 (N)(NC)	10 NNW;RR W	115	57	
(N) " OLF #6 (N)(NC)	10 NNW;RR E	110	48	
(N) " OLF #7 (N)(NC)	7 NW	103	37	
(N) " OLF #8A (N)(NC)	13 NW	100	73	
(N) " OLF #9K (N)(NC)	11.5 NNW;RR E	110	50	
(N) Santa Rosa OLF (Milton)	6 E;rivs N,S,W	150	45h	(N)
(N) Saufley NAAS (Pensacola)	8.5 WNW;bay SW	85	61h R1 L5 S4	87,91 oct. (N)
(N) Spencer OLF (Pensacola)	15 NNE;bay S	145	18h	(N)
(N) Whiting NAAS-North (Milton)(N)	6 N	200	60h R2 L6 S4	73,91,100 oct.
(N) " " -South (Milton)(N)	5 N	178	60h R1	Use N fld. INACTIVE.

MISSISSIPPI

Ellisville	1.3 SW;RR SE	240	18	
Glendale(Hattiesburg)	5 NNW;hwy E	200	26 S3	80 oct.
Gulfort	3.4 NE	26	70h	
" mun.	1.3 N;RR E	30	22 L1 S1	80-oct.Twrs SE,NNE,lgtd.
Hattiesburg	5 SSE;RR SW,NE	145	43h	Poles W,NW
Jackson Co.(Pascagoula)	3.5 ENE;RR N	16	45h L5 S6	80,91 oct.
(A) Keesler (Biloxi)(A)	2 WNW;bay N	21	66h R2 L5 S5	73,91,100 oct.Rdo rqd ngts.
McLaurin	1 NNE;RR W	350	24 S4	73 oct.Lgt acft only.
Picayne	2.3 NNE	92	30 S4	73 oct.No sto.Trees N,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

RADIO

ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DOTHAN	233(ND)(116.1)	SBRAZ-VDT,47°,3.7	(4);116.1

FLORIDA

CROSS CITY	269 (FC)(116.1)	SBMRAZ-VDT,315°,2.7	(4), 116.1
DALE MABRY FLD (Tallahassee)	281 (126.18)(118.3)	C, 85°, 2.7	(4), 126.18, 118.3
TALLAHASSEE (Dale Mabry Fld)	335 (TJ)(116.1)	SBRAZ-VDT,85°,2.7	(4), 116.1
TYNDALL (Panama City)(Army)	203 (DKE)	BMRLZ	Voice 8-23. (3); 126.18
Tyndall Field	272 (126.18)	CA, 313°, 3	(3), 126.18 (6-24)

GEORGIA

ALMA (Int.)	242 (AJ)(116.1)	SBRAZ-VDT,144°,2.2	(4), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DOTHAN	2.5 WNW	322	40h R1 L5	
Enterprise	0.5 NE	355	22	
Headland	2 NE,hwy N	350	48	
Napier (Dothan)	7.5 NW,RR S	396	45h	
(A) Ozark AAF (A)	12 SSW	305	46h	INACTIVE
Southern Airmotive	2 SE,RR W	322	27 S4	80 oct. Twr NW. (Dothan)

FLORIDA

(A) Alliance #4 (Mariana)(A)	14 SE	215	50h	INACTIVE
(A) Apalachicola AAF (A)	2 W,RR N	19	53h	INACTIVE
Bascom (Mariana)	15.5 NE	120	50h	
Carrabelle Flgt Strip	2.6 W,hwy S	20	40h	
Chipley	1.5 SE,hwy N	100	24 S1	80 oct.Trees around fld.
Cross City	1 SE,RR SW	42	50h R1 L5	No beacon
DALE MABRY (Tallahassee)	3 W, RR S	70	52h R2 L5 S4	80, 91 oct.
Ellis (Mariana)	9.5 N,riv W	116	50h	
Fountain	5.2 NNE,hwy E	202	25	
Jasper ,43,NO-JX	3.5 SSE,RR NE	143	36 L3	Poles W.Power line NE.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct. Lgts prior req.
(N) Lake Butler OLF (N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lake Jackson(Tallahassee)	9 NNW,riv NW	250	30 S4	80 oct. No sto.
Live Oak	1 W,RR W	105	26 S1	80 oct. Pole line N,NE,SW. Hwy N.
Malone #2 (Mariana)	15.5 N	154	50h	
Mariana	6 NE,hwy E	112	50h L5 S4	80 oct.Fld lgts prior req.
Montbrook (Williston)	3.2 SSW,hwy E	70	70h	
Monticello (NC)	1.5 SW,hwy E	160	25	
Panama City	5 NW,bay N,S,W	5	19 S6	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV)(NC)-Not charted. → NEW OR REVISED DATA

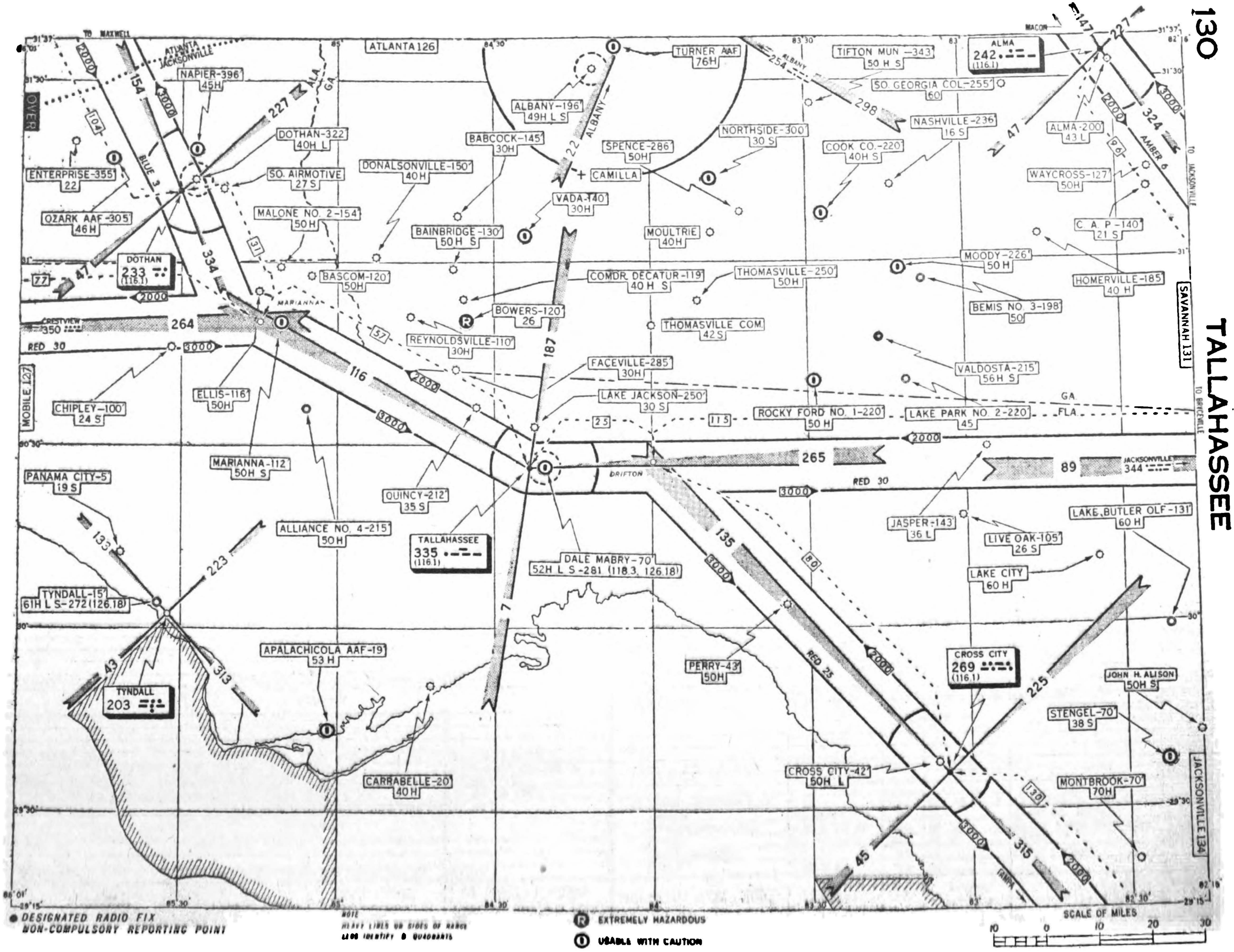
FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Perry	3 S,RR E	43	50h	
Perry Municipal	0.5 NE	43	20	Trees NE,SW.
Quincy	1.5 NE,RR S	212	35 S1	80 oct.
Stengel(Gainesville)	4 WSW,RR SE	70	38 S6	80 oct. Trees around fld.
Tennile	2.5 SSW Clara	35	20	Trees SW Road E.
(A) Tyndall (Panama City)	8 SE	15	61h R2 L5 S6	73,91,100 oct. Gulf of Mexico SW. (A)

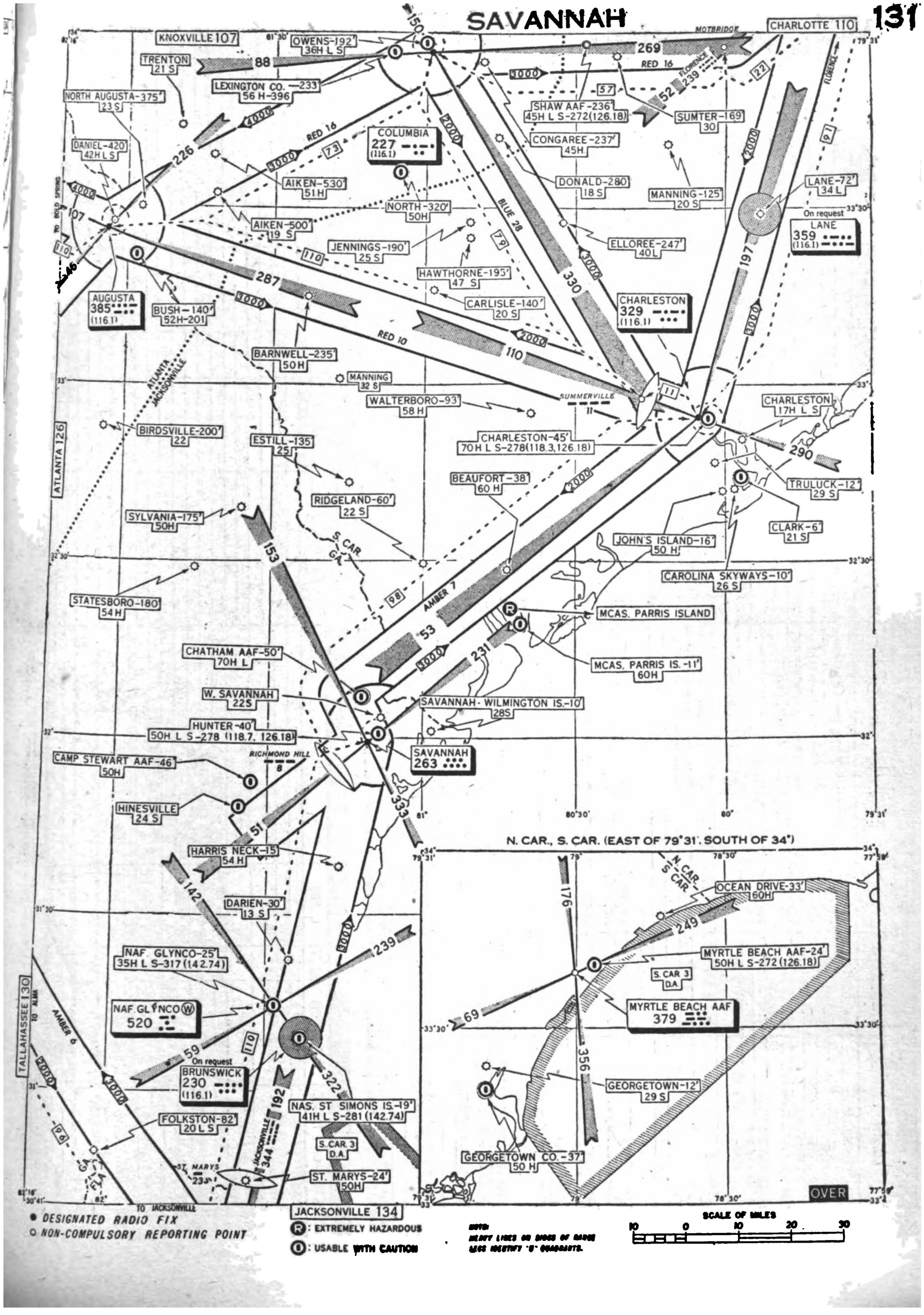
GEORGIA

(P) ALBANY	4 SW, RR N	196	49h R1 L5 S6	80, 91 oct.
★ Alma Int,43,MM-AG	2.5 W,hwy N	200	43 R1 L3	
Babcock(Bainbridge)	3.5 ENE Boykin	145	30h	
Bainbridge	7 NNW,RR NE	130	50h S6	80, 91 oct.
(A) Bemiss #3 (Valdosta)(A)	12 NE,hwy SE	198	50	Not used as airport. CLOSED.
Bowers (Bainbridge)	4.5 S,rd W	120	26	Trees sur fld. Closed. High weeds.
Camilla	0.7 NW		22 S1	80 oct. Data not verified.
Civil Air Patrol (Waycross)	2.6 WSW,RR SE	140	21 S1	80 oct. Obsts surround fld.
Commodore Decatur	2 W,riv S	119	40h S1	80 oct. (Bainbridge)
Cook County (Adel)	1.3 W,hwy NE	220	40h L3 S6	80, 91 oct.
Donalsonville(Bainbridge)	1 S Donalsonv'l	150	40h	
Faceville(Bainbridge)	3.5 S Faceville	285	30h	
Homerville Flgt Strip	2.5 NW,hwy NE	185	40h	
(A) Lake Park #2(Valdosta)	12.5 SSE,hwy N	220	45	INACTIVE (A)
(A) Moody (Valdosta)(A)	11.5 NNE,RR W	226	50h	INACTIVE
Moultrie	7 S,hwy NW	287	40h	
Nashville	1.3 ENE,RR S	236	16 S6	80 oct.
Northside (Moultrie)	3.2 NNW,RR W	300	30 S4	80 oct. No sto.
Reynoldsville (Bainbridge)	1.7 SSW Reynoldsville	110	30h	
(A) Rocky Ford #1 (A)	16 SW,hwy N	220	50h	INACTIVE (Valdosta)
South Georgia College	1.3 S,RR W	225	60	(Douglas)
Spence (Moultrie)	5 SE,hwy W	286	50h	
Thomasville	8.5 ENE,hwy S	250	50h	
Thomasville, com.	1 SW,RR N	250	42 S4	80 oct.Trees sur fld.
Tifton Mun.	2.3 SE,hwy W	343	50h L5 S4	80,91 oct. Lgts prior req.
(A) Turner (Albany) (A)	3.8 ENE,riv N	212	76h	INACTIVE.
Vada (Bainbridge)	3 NE of Vada	140	30h	
(A) Valdosta	2.5 S,hwy E	215	56h S1	80 oct. for civil aircraft.
(P) Waycross	4 NW,hwy E	127	50h	

TALLAHASSEE



SAVANNAH


KNOXVILLE 107
OWENS-192' 36H L S
TRENTON 21 S
LEXINGTON CO.-233' 56 H-396
NORTH AUGUSTA-375' 23 S
DANIEL-420' 42H L S
COLUMBIA 227 (116.1)
AIKEN-530' 51H
NORTH-320' 50H
AIKEN-500' 19 S
JENNINGS-190' 25 S
HAWTHORNE-195' 47 S
CARLISLE-140' 20 S
AUGUSTA 385 (116.1)
BUSH-140' 52H-201
BARNWELL-235' 50H
MANNING 32 S
WALTERBORO-93' 58 H
BIRDSVILLE-200' 22
ESTILL-135' 25
RIDGELAND-60' 22 S
SYLVANIA-175' 50H
STATESBORO-180' 54 H
CHATHAM AAF-50' 70H L
W. SAVANNAH 22S
HUNTER-40' 50H L S-278 (118.7, 126.18)
CAMP STEWART AAF-46' 50H
HINESVILLE 24 S
HARRIS NECK-15' 54 H
DARIEN-30' 13 S
NAF. GLYNCO-25' 35H L S-317 (142.74)
NAF. GLYNCO (W) 520
BRUNSWICK 230 (116.1)
FOLKSTON-82' 20 L S
ST. MARYS-24' 50H
SAVANNAH 263
CHARLESTON-45' 70 H L S-278(118.3,126.18)
BEAUFORT-38' 60 H
JOHN'S ISLAND-16' 50 H
CAROLINA SKYWAYS-10' 26 S
MCAS. PARRIS ISLAND
MCAS. PARRIS IS.-11' 60H
SAVANNAH-WILMINGTON IS.-10' 28S
NAS. ST SIMONS IS.-19' 41H L S-281 (142.74)
S. CAR 3 D.A.
JACKSONVILLE 344
CHARLOTTE 110
SHAW AAF-236' 45H L S-272(126.18)
SUMTER-169' 30
CONGAREE-237' 45H
DONALD-280' 18 S
MANNING-125' 20 S
ELLOREE-247' 40 L
CHARLESTON 329 (116.1)
CHARLESTON 17H L S
TRULUCK-12' 29 S
CLARK-6' 21 S
LANE-72' 34 L
LANE 359 (116.1)
On request
FLORENCE 239
SUMMERVILLE
RICHMOND HILL
ATLANTA JACKSONVILLE
ATLANTA 126
TALLAHASSEE 130
TO ALMA
TO BOLD SPRING
S. CAR GA
GA FLA
TO JACKSONVILLE
MOTBRIDGE
RED 16
BLUE 28
RED 10
AMBER 7
AMBER 6
150
269
88
226
107
287
110
330
197
290
153
98
53
231
333
51
142
239
59
322
192
176
249
356
69
N. CAR., S. CAR. (EAST OF 79°31', SOUTH OF 34°)
OCEAN DRIVE-33' 60H
MYRTLE BEACH AAF-24' 50H L S-272 (126.18)
S. CAR 3 D.A.
MYRTLE BEACH AAF 379
GEORGETOWN-12' 29 S
GEORGETOWN CO.-37' 50 H
JACKSONVILLE 134
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30
OVER

RADIO — GEORGIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA (Daniel)	385 (VD)(116.1)	SBRAZ-VDT,46°,2.1	(4), 116.1
BUSH FIELD (Augusta)	201	CA	(4) (8-sunset)
BRUNSWICK	230 (BS)(116.1)	MHVT	(4), 116.1
GLYNCO (Navy)	520 (NEA)	MRLWZ	
Glynco NAF-LTA	317 (142.74)	CN,239°, 0.3	3105,4495; 142.74 (8-17)
HUNTER FIELD (Savannah)	278 (126.18) (118.7)	AC	(4): 131.9,126.18, 118.7
RICHMOND HILL FM	(- - -)	FM, 231°, 8	Savannah
ST. MARYS FM	(-)	FM, 12°, 23	Jacksonville, Fla.
ST. SIMONS ISLAND NAS	281 (142.74) (140.58)	CN	(3);142.74,140.58 (630-24)
SAVANNAH (Hunter)	263 (SH)(116.1)	SBMRLZ-VDT,51°,2.2	(3); 116.1

SOUTH CAROLINA

CHARLESTON	329 (CS)(116.1)	SBRAZ-VDT	(3), 116.1
Charleston Airport	278 (126.18) (118.3)	AC, 110°, 1.9	(4), 131.9,126.18,118.3
COLUMBIA (Owens Field)	227 (CI)(116.1)	SBRAZ-VDT,330°,1.8	(4), 116.1
LANE (Intermediate)	359 (LX)(116.1)	MHVT	(4), 116.1
MYRTLE BEACH (Army)	379 (DMB)	BMRAZ	
Myrtle Beach AAF	272 (126.18)	CA, 69°, 4.4	(3), 126.18
SHAW FIELD (Sumter)	272 (126.18)	CA	(3), 126.18 (7-24)
SUMMERVILLE FM	(- - - -)	FM, 296°, 10.7	Charleston
→ LEXINGTON CO.ARPT(Columbia)	396	C	(4)(8-18)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS — GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Birdsville (Millen)	9.4 WNW;riv S	200	22	
Bush (Augusta)	7.5 SSE;RR W	140	52h R1	
(A) Camp Stewart (Hinesville) (A)	3 NE;hwy SW	46	50h	INACTIVE
(A) Chatham AAF (Savannah) (A)	7.5 NW;RR E	52	70h L5	INACTIVE
DANIEL (Augusta)	2.5 W;RR S	420	42h R1 L5 S4	80, 91 oct. No sto.
Darien	0.8 SE;riv S	30	13 S1	Ltd 80 oct. Trees W.
★ Folkston Int,37,MM-AG	0.7 WNW;hwy E	82	20 L3 S1	80 oct. on req.
(N) Glynco NAF (LTA)(N)	6.4 N;hwy SE	25	35h R2 L5 S4	91, 100 oct.
Harris Neck	7 E of So.Newport	15	54h	
Hinesville	3 S; hwy W	55	24 S4	73 oct. No sto. Rdo repairs.
HUNTER (Savannah)	3.5 SW;RR yd NW	42	50h R2 L5 S6	80, 91 oct.
St. Marys	1.7 NNW;hwy S	24	50h	
(N) St. SIMONS ISLAND NAS (N)	6 E Brunswick	19	41h R2 L5 S4	91, 100 oct. No sto. Trees NE,W.
Savannah-Wilmington (Savannah)	8 ESE; hwy N	10	28 S6	73 oct. Trees NE,SW.
Statesboro	3.8 NE;hwy W	180	54h	
Sylvania	7.5 SSE;hwy E	175	50h	
West Savannah(Savannah)	3 W; RR W,N	42	22 S6	80 oct. Pole line NW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. → NEW OR REVISED DATA

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS

SOUTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aiken (old)	2 E; RR NNE	500	19 S4	80 oct. Trees SSW.
Aiken (new)	6 NNE; RR SW	530	51h	
Barnwell	1 WNW;hwy E	235	50h	
(P) Beaufort	4 NW	38	60h	
Carlisle (Bamberg)	4 ESE;riv NE	140	20 S4	80 oct. No sto.
Carolina Skyways (Charleston)	6 SSW;riv W	10	26 S4	80 oct.
(A) CHARLESTON (mun.)	9.8 NW;RR NE	45	70h R2 L6 S4	100 oct.
Charleston	4 N; riv E	13	17h L5 S4	91, 100 oct. No sto.
Clark (Charleston)	4 S;riv SW	6	21 S1	80 oct. Trees surround fld.
Congaree (Columbia)	15.5 ESE;RR S	237	45h	
Donald (St.Matthews)	2.5 NNE; RR S	280	18 S1	Ltd 80 oct. Trees SE.
★ Elloree Int,25,AG-CS	5.5 SE;RR N	247	40 L3	Steel mast NE.
Estill	2.5 SSW;RR E	135	25	
Georgetown	1 NW;riv E	12	29 S6	80,91 oct.
(P) Georgetown County	4 S;bay E	37	50h	
Hawthorne(Orangeburg)	5 S; RR E	195	47 S6	80, 91 oct. Tank N.
Jennings (Orangeburg)	2.3 S; RR E	190	25 S2	80, 91 oct. Pole line ENE.
John's Island (Charleston)	7 SSW; rd W	16	50h	
★ Lane Int,24,JX-RW	3 S;RR W	72	34 R1 L3	
Manning (Allendale)	1.5 ENE;hwy N	180	32 S1	80 oct.
Manning	1.5 SE;RR NNE	125	20 S1	Ltd 80 oct.
(A) Myrtle Beach AAF(A)	3 WSW;hwy SE	24	50h R2 L5 S6	73,91,100 oct. No sto.
(A) North (A)	1.5 SE; hwy N	320	50h	INACTIVE
North Augusta	2 E;hwy S	375	23 S4	80 oct.
Ocean Drive (Wampee)	3.5 SE;hwy SE	33	60h	
OWENS (Columbia)	2.5 SE;RR SW	192	36h R1 L4 S6	80 oct. Tank WSW, twr SSE.
(N) Parris Island MCAS	1.5 S	11	60h	INACTIVE (N)
Ridgeland	1.3 WNW;hwy E	60	22 S1	73, 80 oct.
(A) Shaw (Sumter)(A)	7 WNW;RR W	236	45h R1 L5 S6	73, 91, 100 oct. JP-I
Sumter	1.5 NW; RR S	169	30	
Trenton	1.2 E;RR ESE	480	21 S1	80 oct.
Truluck (Charleston)	5.5 W;RRs N	12	29 S6	80 oct. Poles surround fld.
(P) Walterboro	1.3 NE;hwy SE	93	58h	
(A)Lexington Co.(Columbia)	7 SW; RR SE	233	56h R1	

RADIO

FLORIDA

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BANANA RIVER (Navy)	524 (NPB)	MRLZ	(3)
Banana River NAS	224 (142.74)	CN,106°,4.8	(3), 142.74
BAYARD FM	(- - -)	FM, 158°, 19	Jacksonville
BRYCEVILLE FM	(- - - -)	FM, 269°,20.2	Jacksonville
CECIL NAAS (Jacksonville)	201 (142.74)	CN	3105;142.74 (flying hrs)
DAYTONA BEACH	236(DB)(116.1)	BMLZ-VDT,101°, 2.1	(4), 116.1
DREW FIELD (Tampa)	317 (126.18) (118.5)	AC	(4),126.18,118.5,131.9
FORT GEORGE ISLAND FM	(- -)	FM,89°,10.25	Jacksonville
JACKSONVILLE	344(JX)(116.1)	SBRAZ-VDT	(3); 116.1
Jacksonville Arpt No. 1	278 (126.18) (118.5)	AC, 269°, 1.7	(4); 131.9,126.18,118.5
Jacksonville NAS	323 (126.18) (142.74)	CN	(3), 126.18, 142.74
Jacksonville NAS (Seaplane)	3295	CN	3105
MacDILL (Tampa) (Army)	1742 (TM)	H	
MacDill Field	227 (126.18)	CA	(3), 126.18
MELBOURNE	257 (OU)(116.1)	SBRAZ-VDT,158° 2.2	(4); 116.1
NORTH TAMPA FM	(- - - -)	FM, 355°, 10.1	Tampa
ORLANDO	206(OR)(116.1)	BMRLZ-VDT	(3), 116.1
Orlando Arpt.	278 (126.18) (118.7)	C, 220°, 3.4	(4),118.7,131.9, 128.18
PETER O. KNIGHT AIRPORT (Tampa)	278	CI	(4) (12-19)
PINECASTLE(AAF)	248 (126.18)	CA (ILS)	(3),126.18,139.32(8-24)
PINELLAS (St. Petersburg)	272	CI	(4) (8-24)
RUSSELL (Navy) (Fleming OLF)	365 (RUS)	BML, 30°, 3	(3), 128.7
TAMPA (Peter O. Knight Arpt.)	388 (TM)(116.1)	SBRAZ-VDT,55°, 2.6	(3), 116.1
VERO BEACH	242 (VB)(116.1)	MHVT	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAM	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
PINECASTLE AAF, FLA.	109.1	335	360°Mag	IN (.17)	MM ..... (.66)	OM -- (4.5)
					MHK	OHK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

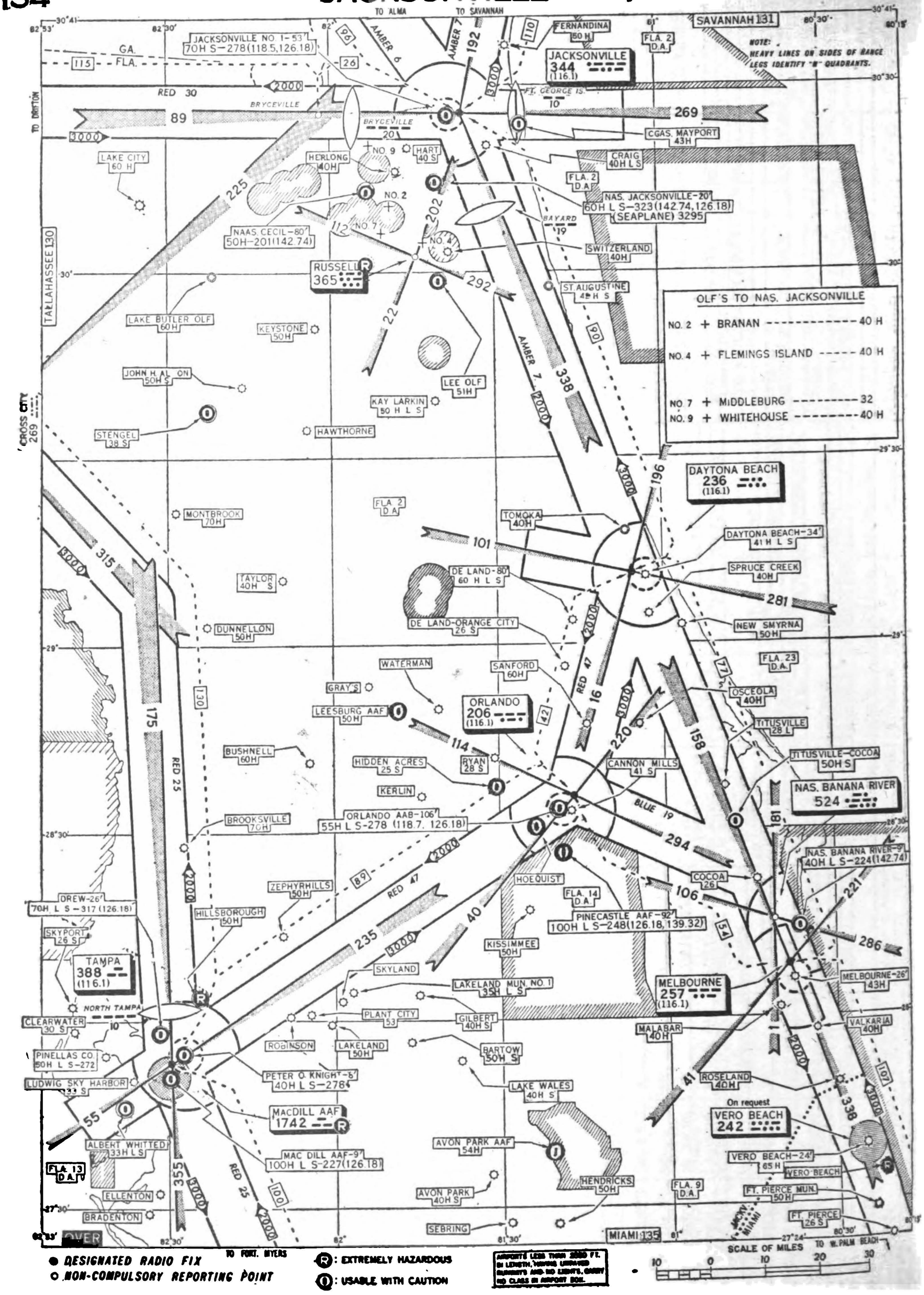
AIRPORTS

FLORIDA

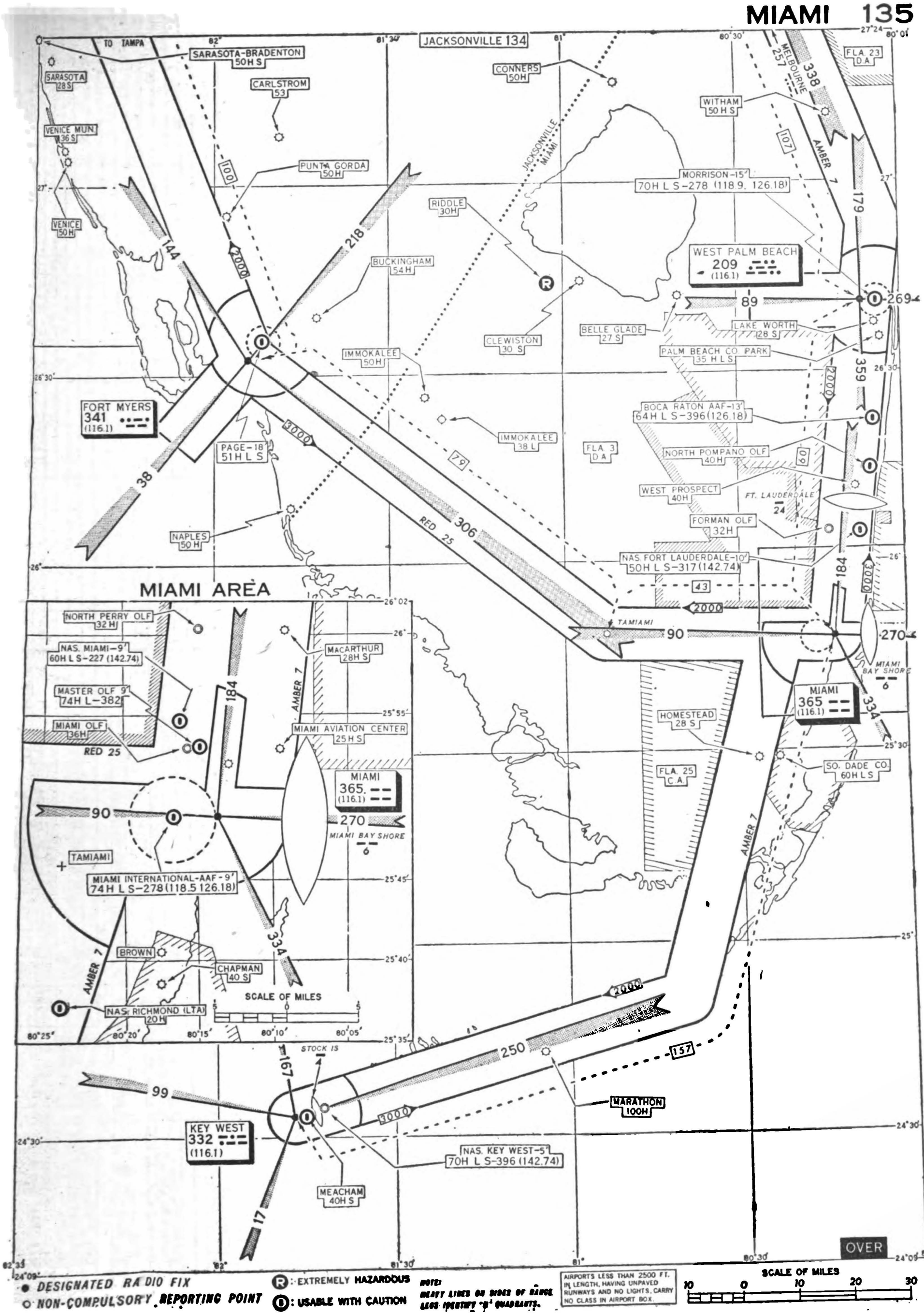
ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P)Albert Whitted (St. Petersburg)	2.5 E,bay E	6	33h L3 S6	80,91,100 oct.Coast Gd. Sta.adj. Poles,stack NW,SW.
Petersburg) (NC)				
Altoona (NC)	0.6 NW,RR E	155	25	Trees ends strips.
Avon Park	1.5 W,RR E	127	40h S1	80 oct.Trees SE.
(A)Avon Park AAF(A)	11 ENE,lake NW	65	54h	INACTIVE.
(N)Banana River NAS	11 SE Cocoa	9	40h R2 L5 S6	91 oct.No bcn. (N)
Barberville (NC)	1 SE,bet RR& rd	25	25	Pole line E.UNUSABLE.
Bartow	5.5 NE,RR NW	128	50h L5 S2	80,91 oct.
Bostwick (NC)	1 NW,RR E	53	34	
Bradenton	0.5 S,RR NE	20	24 S1	80 oct.Trees W.Poles SW
(N)Branan OLF(Jax)(N)	14.5 SW	73	40h L	B-2 lgts.
Brooksville	7.5 SW,hwy E	70	70h	
Bushnell	2.8 NE,hwy S	82	60h	N-S rnwy unusable.
Cannon Mills (Orlando)	3.8 E,hwy N	105	41 S6	80 oct.No sto.Poles sur fld.
(N)Cecil NAAS (Jacksonville)(N)	16 WSW,hwy NW	80	50h R1	INACTIVE.Trees sur.fld
Cedar Keys (NC)	1 W,bay S	6	24h	
Clearwater	2.5 NE,hwy S	73	30 S6	80 oct.No sto.Trees W.
Cocoa	1 N,RR E	20	26 L1	Pole line E,trees S,W.
Craig (Jacksonville)	9 E,riv N	41	40h L5 S6	80,91 oct. No sto.
Daytona Beach	2.8 SW,hwy S	34	41h R1 L5 S6	80, 91 oct.
Deland	2.5 NNE,hwy S	80	60h L5 S1	87,91 oct.
Deland-Orange City (Orange City)	1 SW,riv W	90	26 S1	80 oct. Pole line E.
(N)Drew (Tampa)	5 W,bay SW	26	70h R1 L5 S6	80, 91 oct.Rdo rec req.
Dunnellon	4.5 E,hwy S	63	50h	
Ellenton	1.5 NNW,RR N	18	15	Pole line NE,trees SW,
(P)Fernandina	4 S,ocean E	16	50h	
(N)Flemings Island OLF (Jacksonville) (N)	17.5 SSW	23	40h L	B-2 lgts.
Ft. Pierce, com.	3.3 SSE,RR E	18	26 L1 S6	80 oct.Pole line W.
(P)Ft. Pierce, mun.	3.5 NW,hwy E	24	50h	
Frank D. Waterman (Eustis)	0.9 SSW,lake NNW	81	23 S1	80 oct.Poles SW,N,W.
Gilbert (Winter Haven)	3.5 NNW,lake W,E	135	40h S6	80, 91 oct.
Gray's (Leesburg)	5 N,RR,hwy W	130	27 S6	80 oct.Orange groves W.
Haines City (NC)	1 NW	175	20 L1	
Hart (Jacksonville)	6.5 W,RR N	20	40 S6	80,91 oct.Trees sur fld
Hawthorne	1.2 SSE,RR W	120	24 S1	Ltd 80 oct.Trees S,W,NE
Hendricks (Sebring)	6.5 ESE,RR N	62	50h	
Herlong (Jacksonville)	10.5 WSW	87	40h	
Hidden Acres (Clarcona)	1.5 WNW,lake W	93	25 S6	80 oct.Trees E.
Hillsborough (Tampa)	7 NNE	50	50h	
Hoequist(Orlando)	3.8 SW,bet lakes	90	20 S4	80 oct.No sto.Trees E.
(N)Jacksonville NAS(N)	7.2 S,riv E,N	20	60h R1 L5 S6	91, 100 oct. NATS.
(A)Jacksonville No. 1	6.3 N,RR W	53	70h R2 L5 S4	73, 91, 100 oct. JP-1, for Army.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct.Lgts prior req.
(P)Kay Larkin(Palatka)	3 WNW,RR N	56	50h L5 S1	91 oct.
Kerlin (Minneola)	0.5 NE	100	18 S2	80 oct.
Keystone (Keystone Heights)	4.5 NNW,RR W	192	50h	
Kissimmee	2 W,RR N	65	50h	
(N)Lake Butler OLF(N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lakeland	4.5 SW,RR NE	135	50h	
LAKELAND MUN. NO. 1	2.1 N,lake E	159	35h L5 S6	80, 91 oct.Ctc lgts on req till 2400
Lake Wales	2.3 WSW,RR N	225	40h L3 S6	80, 91 oct.All lgts prior req.
(N)Lee OLF (Green Cove Springs)(N)	2.2 SE,riv N	22	51h	INACTIVE.
(A)Leesburg AAF (A)	4 ENE,RR SE	67	50h L3	CLOSED.
Ludwig Sky Harbor (St.Petersburg)	6 NE,bay E	14	33 L1 S6	80 oct.
(A)MacDill (Tampa)(A)	8 SSW,bay NE	9	100h R2 L5 S6	73-100 oct. JP-1.No sto.
Malabar	7 WNW	27	40h	
Mayport CGAS	0.6 NNE,riv N	19	43h	INACTIVE.
Melbourne	2.2 NW,RR E	26	43h R1	
(N)Middleburg OLF (N)	3 NNE,rds E, SE	34	32	
Montbrook(Williston)	3.2 SSW,hwy E	70	70h	
New Smyrna	3 NNW,RR W	12	50h	
(A)Orlando AAB(Arpt)	2.5 E,lake SE	106	55h R2 L5 S6	91; 100 oct.for military. No sto.
Osceola(Sanford)	10 SSE,lake SE	25	40h	
(A)PETER O.KNIGHT (Tampa)	3.7 S,bay S,E, W	8	40h R2 L5 S6	91,80 oct Shipyard NE-Rdo rec req.
(A)Pinecastle AAF(A)	3 ESE,lake NW	92	100h R3 L5 S4	91,100 oct.JP-1.No sto. No range.
PINELLAS CO. MASTER	9.5 N,bay N	12	50h R1 L5 S6	80,91 oct.No sto.
Piper-Fuller (St. Petersburg)(NC)	4.8 WNW,RR E	21	32	
Plant City	3 E,hwy N	172	53	
Robinson(Plant City)	1.5 WSW,RR E	110	18 S1	80,91 oct.Pole line ESE
Roseland(Sebastian)	1.7 W,riv N,E	23	40h	
Ryan (Apopka)	1 N,lake NW	104	28 S6	80 oct.
St.Augustine	4 NNW,hwy W	10	42h S1	80, 91 oct.
Sanford	2.5 SE,lake N,S	57	60h	
Sawyer (Palatka)	2.6 S,RR SE	60	25	Trees N,E,S. (NC)
Sebring	4 SW,lake NE	200	20 S1	80 oct.Pwr line SW.
Skyland(Lakeland)	1.9 WNW,RR S	170	23 S6	80 oct.No sto.Trees S.
Skyport (Dunedin)	1.5 N,RR E	4	26 S6	80 oct.No sto.Pole line NE
Spruce Creek(Deland)	16 ENE	25	40h	3.5 mi N Sansula.
Stengel(Gainesv'l)	4 WSW,RR SE	70	38 S6	80 oct.Trees sur fld.
Switzerland	1.5 SE	31	40h	
(P)Taylor (Ocala)	1 SW,RR NE	72	40h L3 S6	80,91 oct.Lgts and ngt repairs prior req.
(P)Titusville-Cocoa (Titusville)	6 S,riv E	35	50h S6	80 oct. No sto.
★ Titusville Int,20, MM-AG	1.3 NW,RR E	28	28 L3	
Tomoka (Daytona Beach)	7.8 NW	29	40h	
Valkaria (Melbourne)	8 SSE,RR E	26	40h	
VERO BEACH	1 NW,RR E	24	65h R1	
Wauchula	2.1 E,riv W	120	21	Trees N, E, NE.
(N)Whitehourse OLF (Jacksonville)(N)	13 W,RR S	102	40h L	B-2 lgts.
Wimauma	0.3 ESE,RR W	35	36	Cattle on fld.Bldg W.
Zephyrhills	1.5 ESE,RR W	92	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV (NC)-Not charted. → NEW OR REVISED DATA

JACKSONVILLE



MIAMI 135


JACKSONVILLE 134
TO TAMPA
SARASOTA-BRADENTON 50H S
SARASOTA 28 S
CARLSTROM 53
VENICE MUN 36 S
PUNTA GORDA 50H
VENICE 50H
CONNERS 50H
WITHAM 50H S
MELBOURNE 257
338
FLA 23 D A
JACKSONVILLE MIAMI
107
AMBER 7
179
MORRISON-15' 70H L S-278 (118.9, 126.18)
RIDDLE 30H
218
144
100
2000
BUCKINGHAM 54H
WEST PALM BEACH 209 (116.1)
89
269
BELLE GLADE 27 S
LAKE WORTH 28 S
CLEWISTON 30 S
IMMOKALEE 50H
PALM BEACH CO. PARK 35 H L S
359
FORT MYERS 341 (116.1)
PAGE-18 51H L S
3000
IMMOKALEE 38 L
FLA 3 D A
BOCA RATON AAF-13' 64H L S-396 (126.18)
NORTH POMPANO OLF 40H
60
38
79
WEST PROSPECT 40H
FT. LAUDERDALE 24
FORMAN OLF 32H
RED 25
306
NAPLES 50H
NAS. FORT LAUDERDALE-10' 50H L S-317 (142.74)
43
184
MIAMI AREA
NORTH PERRY OLF 32H
NAS. MIAMI-9' 60H L S-227 (142.74)
MACARTHUR 28H S
MASTER OLF 9' 74H L-382
MIAMI OLF 36H
MIAMI AVIATION CENTER 25H S
TAMIAMI
90
270
MIAMI BAY SHORE
MIAMI 365 (116.1)
HOMESTEAD 28 S
MIAMI 365 (116.1)
334
FLA. 25 C A
SO. DADE CO. 60H L S
MIAMI INTERNATIONAL-AAF-9' 74H L S-278 (118.5 126.18)
BROWN
CHAPMAN 40 S
NAS. RICHMOND (LTA) 20H
SCALE OF MILES
STOCK IS
167
250
157
99
MARATHON 100H
KEY WEST 332 (116.1)
NAS. KEY WEST-5' 70H L S-396 (142.74)
MEACHAM 40H S
17
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOCA RATON AAF	396 (126.18)	CA	(3), 126.18 (6-24)
FORT LAUDERDALE FM	(-)	FM, 4°, 24.4	Miami
FORT LAUDERDALE NAS	317 (142.74)	CN	3105,4495;142.74 (7-2330)
FORT MYERS (Page)	341 (FM)(116.1)	SBRAZ-VDT,38°,3.6	(4), 116.1
KEY WEST	332 (KW)(116.1)	SBRAZ-VDT	(4), 116.1
Key West NAS	396 (142.74)	CN, 70°, 5.8	(3);142.74 (sunrise to sunset)
Key West NAS (Seaplane) (NC)	272 (142.74)	CN	3105,142.74 (prior req.)
MASTER OLF (Miami)	382	CN	(3); 142.74 (7-sunset)
MIAMI BAY SHORE FM	(- -)	FM, 90°, 6	Miami
MIAMI	365(MM)(116.1)	SBRAZ-VDT	(3),116.1
Miami International Arpt.	278 (126.18) (118.5)	AC, 270°, 2.3	(4); 131.9, 126.18, 118.5
Miami NAS	227 (142.74)	CN	3105,4495; 142.74
MORRISON FIELD (West Palm Beach)	278 (126.18) (118.9)	C	(4); 118.9, 131,9 only
STOCK ISLAND LFM	(-)	LFM, 70°, 4	Key West
WEST PALM BEACH (Morrison Field)	209 (DWZ) (116.1)	BMRAZ-VDT,89°,2.4	(3), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arcadia	2 SE,hwy W	60	30	Trees around fld.
Belle Glade	1 NNE,lake W	17	27 S6	73 oct. No sto. Light acft.
(A) Boca Raton AAF (A)	2 NNW,canal E	13	64h R1 L5 S6	73, 91, 100 oct. Twr SE.
Brown (Miami)	10 SSW,RR NW	10	20 S6	80, 91 oct. No sto. Trees E.
Buckingham (Ft.Myers)	10 E,riv SW	23	54h	
Carlstrom (Arcadia)	7 SSE,hwy N	56	53	
Chapman (Miami)	10 SW,RR W	3	40 S6	80,91 oct. No sto. Pwr line W.
Clewiston	1.6 SW,RR N	19	30 S6	80 oct. Pole line N, E, S, W.
Conners (Okeechobee)	2.5 NW, RR S	34	50h	
Dorr (Arcadia)	11.5 E,hwy N	74	53	
(N) Forman OLF (Ft. Lauderdale) (N)	6.5 WSW	7	32h	
(N) Fort Lauderdale NAS	3.5 SSW,RRW	10	50h R1 L5 S4	91, 100 oct. No sto. (N)
Homestead, mun.	2 NE, rd N	8	28 S6	80 oct.
Immokalee Airfield	1.3 ENE,RR W	20	50h	
* Immokalee Int, 13, TM-MM	5.25 SE,RR SW	23	38 L2	
(N) Key West NAS (N)	7 ENE	5	70h R2 L5 S4	91, 100 oct. No sto.
Lake Worth	2 W,hwy N	12	28 S1	80 oct.
MacArthur (Hollywood)	1 SW,RR E	12	28h S4	80, 91 oct. No sto. Trees SE.
Marathon	1.8 ENE,hwy S	6	100h	
(N) Master OLF (Miami)(N)	8 NNW,RR W	9	74h R1 L5	Pwr line SE.
MEACHAM (Key West)	2.3 E,ocean S	4	40h S1	80,91 oct. ARPT OF ENTRY.
Miami Aviation Center (Miami)	7.5 NNE,bay E	8	25h S6	80, 91 oct. No sto.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV) (NC)-Not charted. ⟶ NEW OR REVISED DATA

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
				80 oct. Data not verified.
(A) MIAMI INTERNATIONAL - AAF	5.5 NW,RR S	9	74h R2 L5 S6	91, 100 oct. JP-1. FEE. 2-way radio on req. AIRPORT OF ENTRY.
(N) Miami NAS (N)	10.7 NW,canal N	9	60h R1 L5 S6	91, 100 oct. No sto.
(N) Miami OLF (N)	7.9 NNW,RR E	91	36h	
(A) MORRISON (West Palm Beach) (A)	2 W,canal S	15	70h R2 L5 S5	73-100 oct. CLOSED. FOREIGN CLEARING STATION
Naples	2 NE,RRs E,W	8	50h	
(N) North Perry OLF (Hollywood)	6.3 W	9	32h	
(N) North Pompano OLF	1.5 NE,RR W	21	40h	(Pompano)
PAGE (Ft. Myers)	4 S,RR SE	18	51h R1 L5 S6	80, 91 oct. Ground traffic
Palm Beach County Park (Lantana)	2 WNW,lake N	16	35h L5 S6	80, 91 oct. Fld lgts prior req. Lake E
(P) Punta Gorda	5 ESE,hwy SW	22	50h	
Punta Gorda, mun.(NC)	3 SSE,hwy E	4	24	
(N) Richmond NAS (LTA)	15 SW Miami	13	20h	INACTIVE. (N)
Riddle (Clewiston)	7.6 W,hwy N	19	30h	Use rnwys only.
SARASOTA-BRADENTON (Sarasota)	3.5 NNW,hwy W	24	50h L5 S6	80, 91 oct.
Sarasota, com.	2.5 E,RR S	25	28 S1	80 oct.
Sunny South (Miami)	6 N,hwy N	12	27	
Tamiami (Miami)	12 W		35h S4	80, 91 oct. No sto. Data not verified.
Venice	2 S,RR E	15	50h	Pole lines N, E.
Venice, mun.	0.5 SE,RR E	20	36 S2	80 oct.
Oakland Park (West Prospect)	2.5 WNW	14	40h	Trees sur field.
(P) Witham (Stuart)	1.5 SE,RR SW	17	50h S1	
So.Dade Co.(Homestead)	5 E	8	60h L5 S6	87 91 oct. No sto.

CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURBANK (Lockheed Air Terminal)	248(BU)(116.1)	SML-VDT;93°,3	(4);116.1
BURBANK LFM	(- -)	LFM 97°, 1.5	Burbank
CHATSWORTH	341 (L)	FMK;277°, 10.6	Burbank
CHATSWORTH LFM	(. . - - - -)	LFM, 276°, 10.5	Burbank
DOWNEY FM	(-)	FM; 77°, 11	Los Angeles
DOWNEY	379 (V)	FMK; 77°, 11	Los Angeles
EL TORO MCAS	3295(142.74)	CN	3105,4495;126.18,142.74
GLENDALE	371 (S)	K; 97°, 7.3	Burbank
→ GRAND CENTRAL ARPT (Glendale)	201	CI	(4);131.9, (8-sunset)
HAWTHORNE NORTHROP	396 (126.18)	CA	(3);126.18 (730-2230)
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LOCKHEED AIR TERMINAL (Burbank)	278 (126.18) (118.3)	AC	(4);131.9,126.18,118.3
→ LONG BEACH	233(HB)(116.1	SBMRLZ-VDT	(3);116.1
Long Beach Airport	347 (126.18) (118.5)	AC; 298°, 3.9	(4);131.9,118.5,126.18
LOS ALAMITOS NAAS	317 (142.74)	CN	3105;142.74 (8-1730)
LOS ANGELES	260 (LA)	SBRAZ-DTX	(4)
Los Angeles Airport	272 (126.18)	C (ILS);244°,3.8	(4);116.1,126.18
NEWHALL (Int)	209(NH)(116.1)	BMRL-VDT;317°,0.1	(4);116.1
→ ONTARIO ARPT	219(126.18)	CI	(4); 126.18, 116.1
SANTA ANA (Navy)	472(SNA)(116.1)	BMRLZ	3105;142.74 (13-5)
Santa Ana NAS	6970(142.74)	CN;250°,0.6	3105,3195;142.74 (flying hrs & req)
SANTA MONICA AIRPORT	272 (126.18)	CI	(3);126.18 (8-18)
TERMINAL ISLAND NAS (San Pedro)	338 (142.74)	CN	(3);142.74 (flying hrs)
VAN NUYS METROPOLITAN AIRPORT	219 (126.18)	CA	(3);126.18 (7-19)
→ CASTAIC FM	(- - - -)	FM, 322°, 41	Los Angeles

COLORADO

AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DENVER (Stapleton Airfield)	379 (DV) (111.1)	SBMRAZ-VDTX;159°, 2.5	(4); 131.7
DENVER (9 mi ENE Stapleton)	109.1 (DV) 111.1	WAR-VDT	(4); 131.7
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
LOWRY FIELD (Denver)	396 (126.18)	CA	(3);126.18
SKY RANCH ARPT (Denver)	206	CI	(3) (sunrise to sunset)
STAPLETON AIRFLD(Denver)	278 (126.18) (118.7)	AC (ILS)	(4);131.9,126.18
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

— DENVER AREA —

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
STAPLETON, COLORADO	110.3	335	206° Mag.	IM	MM .....(.64)	OM -- (4.2)	
					MMK	OMK	

— LOS ANGELES AREA —

LOS ANGELES, CALIFORNIA	109.9		247° Mag.	IM (.05)	MM	OM (2.45)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

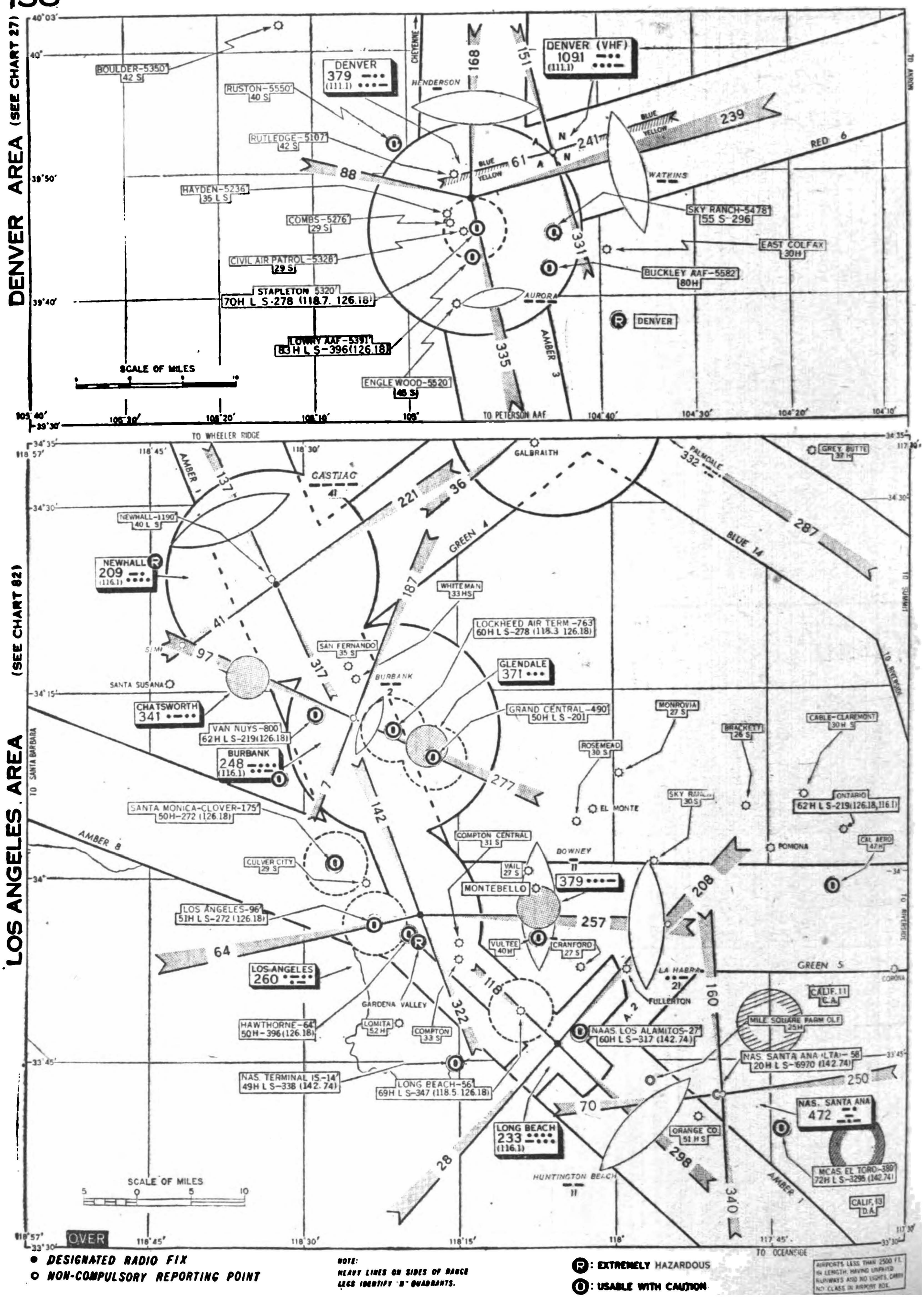
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Brackett (Pomona)	3 NW;hwys S,E	1010	26 S6	80 oct. Fence W.
Cable-Claremont	1.8 ENE;RR E	1400	30h S4	80,91 oct.
Cal Aero (Ontario)	5 SSE;hwy W	625	47h	Rest'd to D.P.C.
Compton	1.5SW;hwyE,W,N	90	33 S6	80 oct. Poles E. W.
Compton Central(Compton)	2 NW;RR W	100	31 L S6	80,91 oct. No sto. B-2 lgts req.
Corona	2.3 ESE; RR N	645	22 S4	80,91 oct. Pole line W.
Cranford (Artesia)	2.1 NE;RR W	55	27 S6	80 oct. Pole line S.
Culver City(Los Angeles)	9 WSW;RR S,W	25	29 S6	80 oct. Poles NE.
El Monte	1 NNE;rd E	300	21 S6	80 oct. Trees SW. Bldgs NE
(N) EL Toro MCAS (N)	3.7 NW;RR SW	380	72h R1 L5 S4	73,87,91,100 oct.
Fullerton	3 W;RR N	95	18 L1 S6	80 oct.
Galbraith (Palmdale)	0.3 W;RR E	2660	21 S1	73,80 oct.
Gardena Valley (Gardena)	2 NW; RR SE	50	23 S6	80 oct. Pole line E.
Grand Central (Glendale)	2.2 NW;bet RR and river	490	50h R1 L5 S6	73,83,91,100 oct.
Grey Butte (Victorville)	22 W	3050	37h	Mts. S.
Hawthorne	1.2 E;RR S	64	50h R1	Poles W. Closed to transients.
Hughes (Culver City)(NC)	3.6 SSW;RR N	15	91	Pole line NE. RESTRICTED.
LOCKHEED AIR TERMINAL (Burbank)	3.5 WNW;RR S	763	60h R2 L6 S6	73,80,91,100 oct. No sto. Two-way radio required.
Lomita Landing Strip	1 W;hwy S	95	52h	Mts. S.
(A) LONG BEACH	3 NE;RR W	56	69h R2 L6 S6	80,91,100 oct. JP-1. No sto.
(N) Los Alamitos NAAS (N)	1 SE;riv W	27	60h R1 L5 S4	73,91,100 oct.
(A)(N) Los Angeles(MinesFld)	9.5 SW;RR E	96	51h R3 L6 S6	91,100 oct.Rdo req.
(N) Mile Sq.Farm OLF (San Diego)	3.5 SE;riv E	44	25h L	Pwr lines S
Monrovia	0.5 SE;RR S	500	27 S6	80,91 oct.
★ Newhall Int.3A,LA-SF	2.2 NW;RR E	1190	40 R1 L3 S1	90 oct. for airlines.
Norco	2.5 N;RR S	590	14 S1	80 oct.
→ Ontario	1.5 E;bet RRs	934	62h R1 L5 S4	80,91,100 oct.
Orange Co. (Santa Ana)	5 S;at fork rds	45	51h S6	80-100 oct.
(N) Palisades OLF (N)(NC)	2 E Costa Mesa	107	25	Bay N,W.
Pomona	1.8 SSE;riv S	775	20 S6	80 oct.
Rosemead (El Monte)	1 W;RR N	255	30 S6	80,91 oct. No sto.
San Fernando	1.2 E;hwy SW	1150	35 S6	80 oct. Poles SW.
(N) Santa Ana NAS (LTA)(N)	3.6 SE;RR NE	58	20h R2 L5 S4	91,100 oct. No sto.
(P) Santa Monica	2.6 ESE;rd E	175	50h R1 L5	No bcn.Lgts prior req.
Santa Susana	0.5 S;RR N	955	19 S6	73 oct.No sto. Pwr line W.
Sky Ranch (Puente)	1.3 E;RR S	402	30 S4	80 oct. No sto.
(N) Terminal Is. NAS (San Pedro) (N)	2 ENE	14	49h R1 L6 S1	91,100 oct. NAFC.
Vail (Los Angeles)	6.5 E;RR SW	175	27 S6	80,91 oct. Radio repairs.
(A) Van Nuys Metropolitan (A)	2.8 NW;RR N	800	62h R1 L5 S4	100 oct.
Vultee (Downey)	1.5 SSE;hwy W	100	40h L1	69' trees WSW. RESTRICTED.
Whiteman (San Fernando)	2 SE;RR N	1000	33h S6	80 oct. Pole line NNW,NE,SW.
Montebello	2 SSW;RR S	180	34 S6	80,91 oct.

COLORADO

Boulder	3 ENE;RR NW,S	5350	42 S5	80,91 oct. Bldg. N
(A) Buckley (Denver)(A)	12.5 ESE	5582	80h	INACTIVE.
Civil Air Patrol (Denver)	3.9 E	5328	29 L S6	80 oct. Flood lgts.
Combs (Denver)	3 NE;RR N	5276	29 S6	80,91 oct. Pole line N, S.
East Colfax (Watkins)	2.7 WSW;hwy N	5650	30 S4	73 oct. Poles N, NW.
Englewood	6.8 SSE;hwy S	5520	45 S6	80,91 oct. No sto.
(A) Lowry (Denver) (A)	5.3 ESE	5391	83h R1 L5 S6	91,100 oct. JP-1.
Ruston (Denver)	10 NNW;hwy W	5550	40 S1	80,91 oct. Pole line W,SW.
Rutledge (Dupont)	1 S;bet RR;hwy	5107	42 S6	80 oct. Pole lines sur fld.
Sky Ranch (Denver)	12.6 E;RR S	5478	55 R1 S6	73,80,91 oct.
STAPLETON (Denver)	5 ENE;RR N	5320	70h R3 L6 S6	80,91 oct.
Vest Acft. Co. (Denver)	3.8 NE;hwy W	5236	35 L2 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV.) (NC)-Not charted. → NEW OR REVISED DATA

DENVER AREA (SEE CHART 27)



LOS ANGELES AREA (SEE CHART 82)

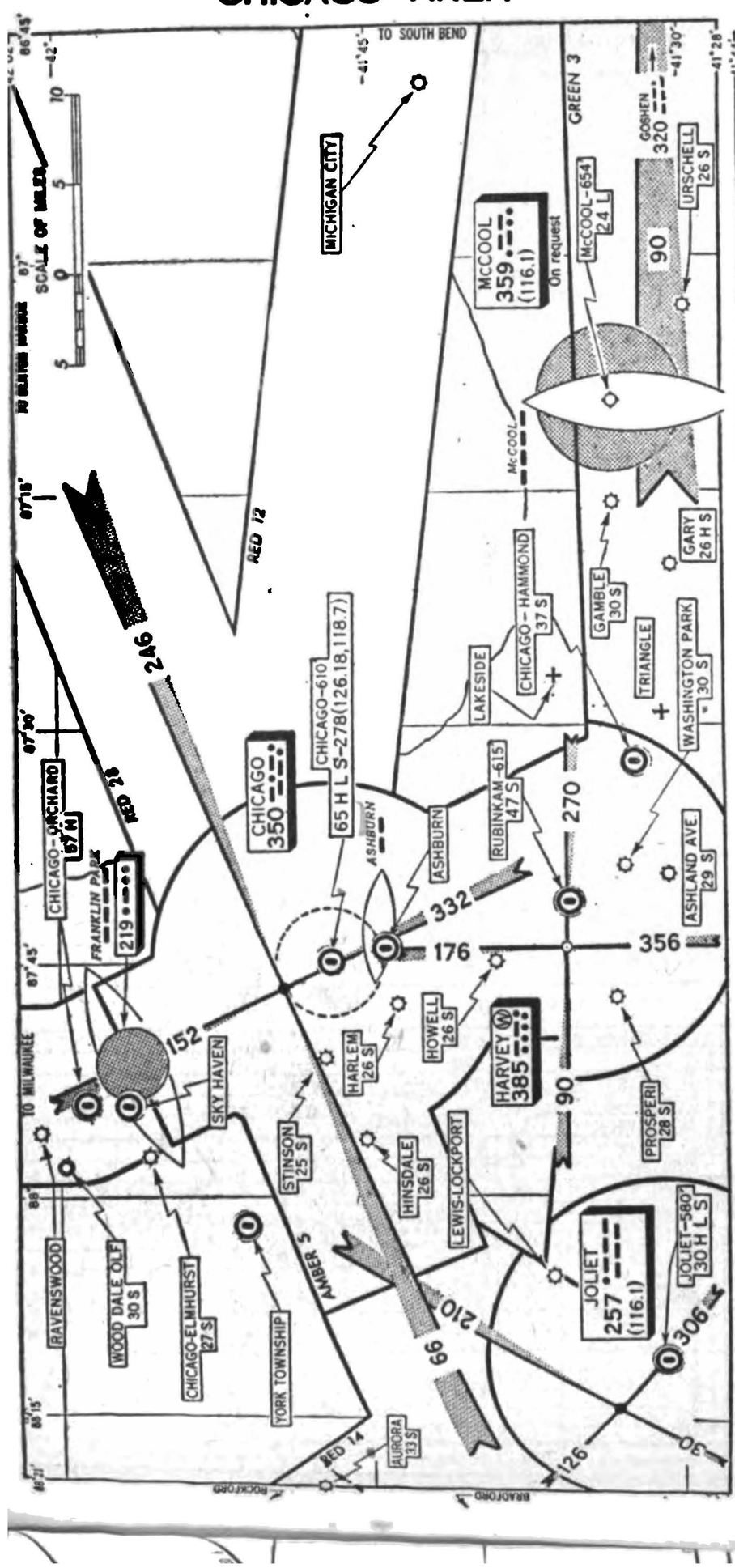
- ● DESIGNATED RADIO FIX
- ○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

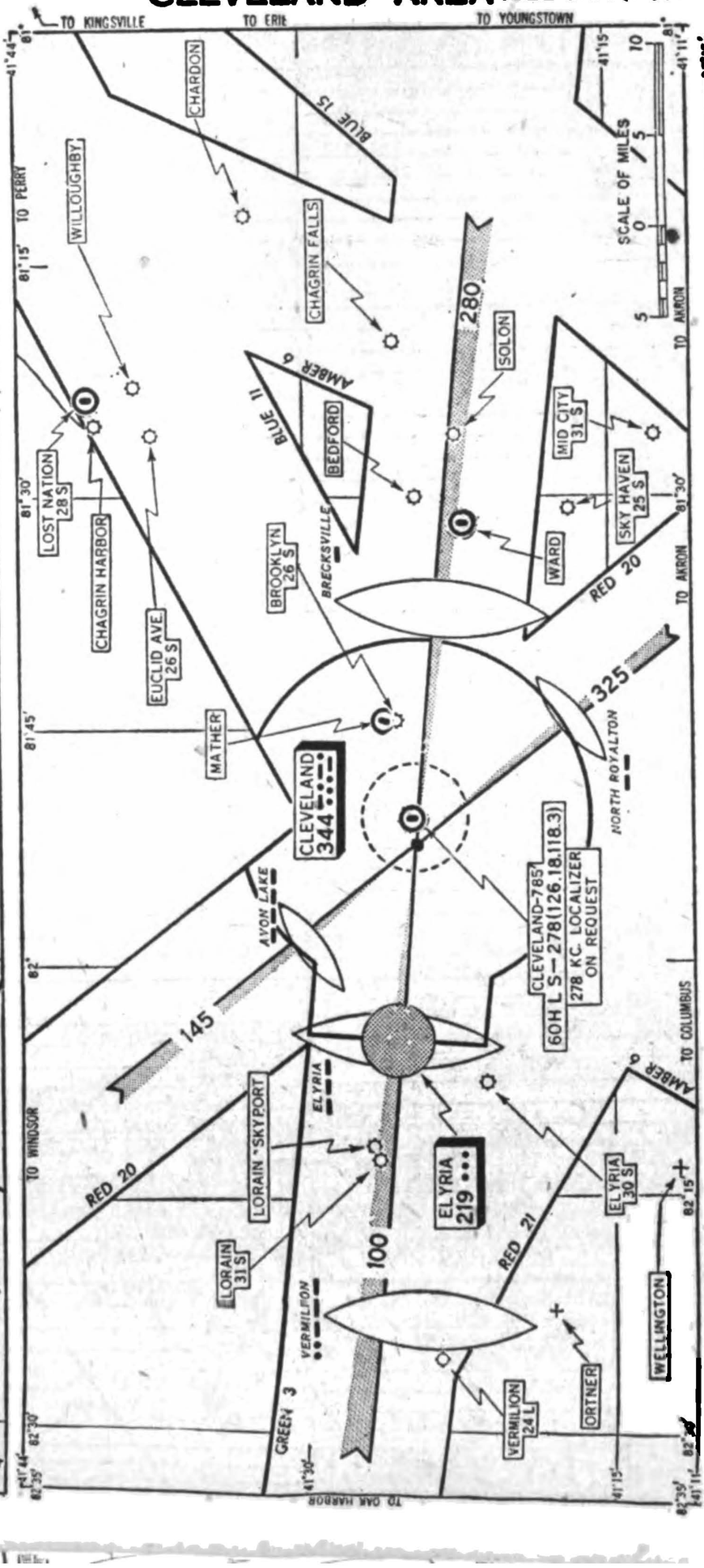
- (R): EXTREMELY HAZARDOUS
- (O): USABLE WITH CAUTION

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

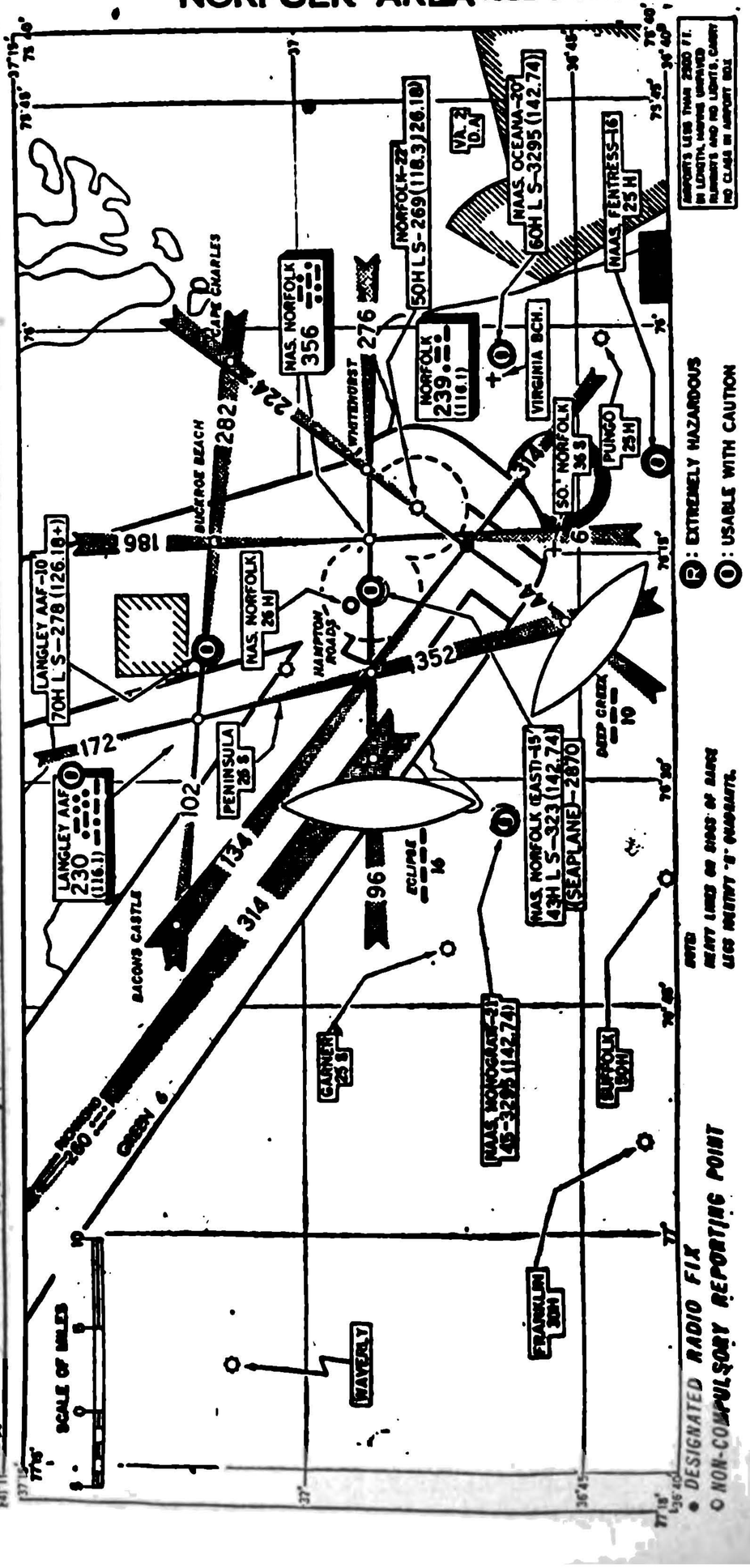
CHICAGO AREA (SEE CHART 34)



CLEVELAND AREA (SEE CHART 38)



NORFOLK AREA (SEE CHART 111)



RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM,152°, 6.25	Chicago
CHICAGO	350(CG)(116.1)	SBRAZ-VDTX	(3);116.1
Chicago Airport	278(126.18) (118.7)	AC (ILS);152°,2.2	(4);131.9,126.18,118.7
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
FRANKLIN PARK	219 (L)	FMK; 332°, 9.5	Chicago
HARVEY (Rubinkam)	385 (GH)	MLWZ; 90°, 2.2	
JOLIET	257(JO) (116.1)	SBRAZ-VDT; 126°,3.6	(4); 116.1

INDIANA

McCOOL (Int)	359(ML) (116.1)	MRVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

OHIO

AVON LAKE LFM	(- - - -)	LFM, 325°, 8.1	Cleveland
BRECKSVILLE FM	(- - -)	FM, 201°, 10.3	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX	(3)
Cleveland Airport	278 (126.18) (118.3)	AC (ILS);100°,0.7	(4); 118.3, 126.18
ELYRIA FM	(- - -)	FM, 280°, 10.9	Cleveland
ELYRIA	219 (S)	FMK, 280°, 10.9	Cleveland
NORTH ROYALTON LFM	(- -)	LFM, 145°, 10.8	Cleveland
VERMILION FM	(. - - - -)	FM, 280°, 26	Cleveland

VIRGINIA

DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk NAS East Field
LANGLEY FIELD (Army)	230(DLY) (116.1)	SBMRAPZ-VDT	(3); 116.1
Langley Field	278 (126.18) (116.1)	CA; 102°, 3.5	(4); 126.18 only
MONOGRAM NAAS(Drivers)	3295(142.74)	CN	3105,4495;142.74 (on req only)
NORFOLK	239(NW)(116.1)	SBMRLZ-VDT	(4);116.1
Norfolk Airport	269 (126.18) (118.3)	AC; 44°, 3.4	(4);131.9,126.18,118.3
Norfolk (Navy)	356 (NGU)	BMRLZ	
Norfolk NAS(East Fld)	323 (142.74)	CN; 276°, 2.9	(3); 142.74
Norfolk NAS(Seaplane)	2870	CN	2870 (7-17 & on req)
OCEANA NAAS	3295(142.74)	CN	3105,4495;142.74(745-1830)

CHICAGO AREA

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. on mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CHICAGO, ILL.	109.9		132° Mag.	IM ·····(.04)	MM	OM --(1.89)
					MMK 201 ···(.71)	OMK
— CLEVELAND AREA —						
CLEVELAND, OHIO	109.9		54° Mag.	IM ·····(.06)	MM	OM -(4.75)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Ashburn (Chicago)	12 SW;hwy W	620	16 S4	73,80 oct.Unsafe after rain.
Ashland Ave(Chicago Hgts)	1.5 NW;hwy S	675	29 S6	80,91 oct.Obsts sur fld.
Aurora	3 NNW	701	33 S4	80 oct. Twr NE;stack SE.
(A,N)CHICAGO	9 SW of loop	610	65h R3 L6 S6	73,80,91 oct. FKE.
Chicago-Elmhurst(Elmhurst)	2.5 N;hwy SW	707	27 S6	80,91 oct.Poles S,E.
(A) Chicago-Orchard (A)	16 NW;RR W	657	57h	
Chicago-Hammond(Lansing)	1.5 S;RR N	660	37 L1 S6	73,80oct.Obsts sur. fld.
Harlem (Oaklawn)	2.2 WNW;hwy W	610	26 S6	80 oct.Pole line E.
Hinsdale	3 S;hwy SE	710	26 S6	73,80 oct. Rolling ground.
Howell (Blue Island)	3 W; hwy E	600	26 S4	80 oct. Obsts sur fld after 2400.
Joliet,22,IS-OO	5 W;riv W	580	30h R1 L4 S4	80, 91 oct.Flood lgts prior req

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIV) (NC)-Not charted. ——➤ NEW OR REVISED DATA

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lewis-Lockport(Lockport)	2.2 WNW;hwy E	664	26 S6	80,91 oct. Twr SE.Obsts sur fld.
Prosperi (Tinley Park)	1.7 SSW;hwy W	695	28 S6	80 oct.
Ravenswood (Des Plaines)	2.5 SW;hwy E	650	17 S6	80 oct. No sto.
(P) Rubinkam (Harvey)	2.5 SW;hwy N	615	47 L1 S5	73,80,91 oct.Use W part only.
St. Charles (NC)	3.5 E;RR E,S	760	18h	Pole line N.
Sky Haven(Bensenville)	1.5SE;bet RR,rd	650	22 S1	73,80oct. Use strips only.
Stinson (La Grange)	2 SE;hwy SE	644	25 S6	80,91 oct.Pole line S,W.
(P) Washington Park(Homewood)	1.5 SE;hwy E	625	30 S6	80,91 oct.Allway area.
Wood Dale (Glenview)	10.5 SW	711	30 S5	80 oct.
York Township(Lombard)	2 SSW;hwy N	726	20 S6	80 oct.Use strips.Pole line N,E.

INDIANA

Gamble (Hobart)	1.8 NNW;hwy S	650	30 S4	73,80 oct.Obst sur fld.
Gary	6 S;hwy W	610	26h S6	80,91 oct.Trees N,E,S.
★ McCool Int,3,CG-LG	2 SW;hwy S	654	24 R1 L3	
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,S,W.
Urschell(Valparaiso)	1.7 NNE;hwy E	766	26 S2	80 oct.Pole line N.

OHIO

Bedford	2 NE;hwy W	1060	17 S2	73 oct.
Brooklyn (Cleveland)	5.5 SW;RR S	780	26 S2	73 oct.
Chagrin Falls	3 E;hwy SW	1220	23 S4	80 oct. Pole line N.
Chagrin Harb.(Willoughby)	2.5 NNW	620	22 S6	80 oct. Pole line W.
Chardon	2.8 S	1230	22 S1	80 oct. Pole lines sur fld.
(A) CLEVELAND	8.5 SW;riv W	785	60h R3 L6 S6	73,80,91,100oct.JP-1.FKE. ARPT.
Elyria	1.6 SSW;RR NW	745	30 S2	80 oct. Poles SE. OP ENTRY
Euclid Ave.(Willoughby)	1.5 WSW;RR N	640	26 S6	80 oct.Poleline S,hi-line N.
Lorain	2.1 SW;RR N	610	31 S1	80 oct.Pole line NE,SE.
Lorain Skyport(Lorain)	2.8 W;lake NW	610	30 S1	80 oct.Pole line S,SE,Rnwy data
Lost Nation (Willoughby)	3 N;lake NW	626	28 S6	80,91 oct.Obsts sur fld. unver.
Mather (Cleveland)	5 SW;RR S	740	19 S2	80 oct.
Mid City (Hudson)	2 S;RR S	1080	31 S4	80 oct.Poles W,NW.
Ortner (Wakeman)	4 NNE;RR S		26 S1	73 oct.Data not varified.
Sky Haven (Northfield)	2.5 SSE;RR NE	1040	25 S4	73,80oct.No sto.Pwr line W,S.
Solon	1.1 SSE;RR NE	1034	24 S6	73,80 oct.Pole line SE,W.
★ Vermilion Int, 28,CG-LG	3.7 SW;RR SE	610	24 L3	
Ward (Bedford)	1.5 S;RR E	980	20 S4	80 oct.No storage.
Willoughby	1.2 E;RR NW	700	22 S6	80 oct. Pole line sur fld.

VIRGINIA

(N) Fentress NAAS (N)	2.5 ESE;hwy N	16	25h		INACTIVE.
(P) Franklin	1.7 NE	38	30h		
Garner's (Windsor)	4.8 NNE;hwy W	80	25 S2		80 oct.
Glen Rock (Norfolk)(NC)	4.5 E;RR S	18	24		Twrs,pole line SW.
(A) Langley Field (A)	3 N Hampton	10	70h R2 L5 S6		73,91,100 oct.JP-1
(N) Monogram NAAS (Drivers)	2.8 W;riv W	21	45 R1		INACTIVE. (N)
➤ NORFOLK	5 ENE;RR SE	22	50h R2 L5 S4		80,91 oct.
(N) " NAS (Chambers)(N)	7 N;rd N	13	26h		CLOSED. Use East Field.
(N) " NAS (East Field)(N)	6 N;RR SW	15	43h R2 L5 S6		91,100 oct.NATS,NAFC.
(N) Oceana NAAS (N)	1 SW;RR N	20	60h R1 L5 S4		91,100 oct.No ban.
Peninsula(Hampton)	2 WSW;RR N	12	26 S4		80 oct.
Pungo	0.8 NE	15	25h		
South Norfolk (Norfolk)	6 SSE		36 S4		Fuel.No sto.Data unverified.
(P) Suffolk	3.8 SSW;RR E	66	50h		
Waverly	2.5 NW;RR SW	115	17 S2		80 oct.Treas,brush sur fld.
Virginia Beach Va.	4.5W;RR,hwy N	15	42 S4		80,91 oct.Pole line N.Data unver.
➤ Lakeside (Gary) Ind.	7.5 W		35 S4		73,80 oct. Unverified.
➤ Triangle (Dyer) Ind.	2 NE		27		Unverified.

——➤ NEW OR REVISED DATA

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JERSEYVILLE FM	(-)	FM, 355°, 21	St. Louis, Mo.
SCOTT (Belleville) (Army)	263 (PCD)	SBMRAPZ-DT	(4)
Scott Field	396	CA; 49°, 1.8	(4)
MISSOURI			
LAMBERT-ST. LOUIS ARPT. (St. Louis)	278 (126.18) (142.74)	AC (ILS)	(4); 131.9,126.18,142.74
ST. LOUIS(Lambert-St.Louis Airport)	209 (LS)	SBRAZ-DTX.256°, 2.2	(3)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE	219 (L)	FMX; 69°, 7.8	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
OREGON			
PORTLAND	332 (PD)	SBRAZ-DT	(4)
Portland AAB	278 (126.18) (118.3)	AC; 171°, 3.1	(4);142.74,131.9,118.3,126.18
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
WILLAMETTE FM	(. . - -)	FM, 76°, 20.6	Portland
TEXAS			
ALAMO (San Antonio) (San Antonio Airport)	344(JR)(116.1)	BMLZ-VDT	(4); 116.1
BROOKS FIELD (San Antonio)	396 (126.18)	CA	(3); 126.18
KELLY FIELD (San Antonio)	219 (126.18)	CA	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
Randolph Field	272 (126.18)	CA; 322°, 2.04	(3); 126.18
SAN ANTONIO (Kelly Field)	254(ZN)(116.1)	SBRAZ-VD, 107°, 1.8	(4); 116.1
San Antonio Arpt.(Alamo Fld)	278 (118.5)	C	(4); 118.5,131.9,126.18
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo
WASHINGTON			
HOBART FM	(--)	FM, 88°, 15	Seattle
LAKEVIEW FM	(- - -)	FM 175°, 25.5	Seattle
KING CO. AIRPORT (Seattle)	278(126.18) (118.3)	AC	(4); 131.9,140.1, 126.18,118.3
McCHORD (Tacoma)(Army)	272 (DTA)	BMRL	
McChord Field	396 (126.18)	CA (ILS);260°,1.7	(3); 116.1, 126.18
SEATTLE (King Co. Airport)	260(SA)(116.1)	SBRAZ-VDTX.296°,3.3	(4);116.1
→ SEATTLE NAS (Navy)	532 (WN)	MH	(4) cont.
Seattle NAS	230 (142.74)	CN	(3); 142.74 (8-sunset) (GCA)
WASHOUGAL FM	(-)	FM, 63°, 17.5	Portland, Oregon
WOODLAND FM	(- - - -)	FM, 331°, 23	Portland, Oregon

– ST. LOUIS AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LAMBERT-ST. LOUIS, MO.	110.3		238° Mag.	IM ••.•••(.06)	MM	OM – –(4.50)
					MMK 201 •••(.60)	OMK

– SEATTLE AREA –

McCHORD, WASHINGTON	109.9	333.8	337° Mag.	IM (.26)	MM •••••(.85)	OM – –(4.44)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

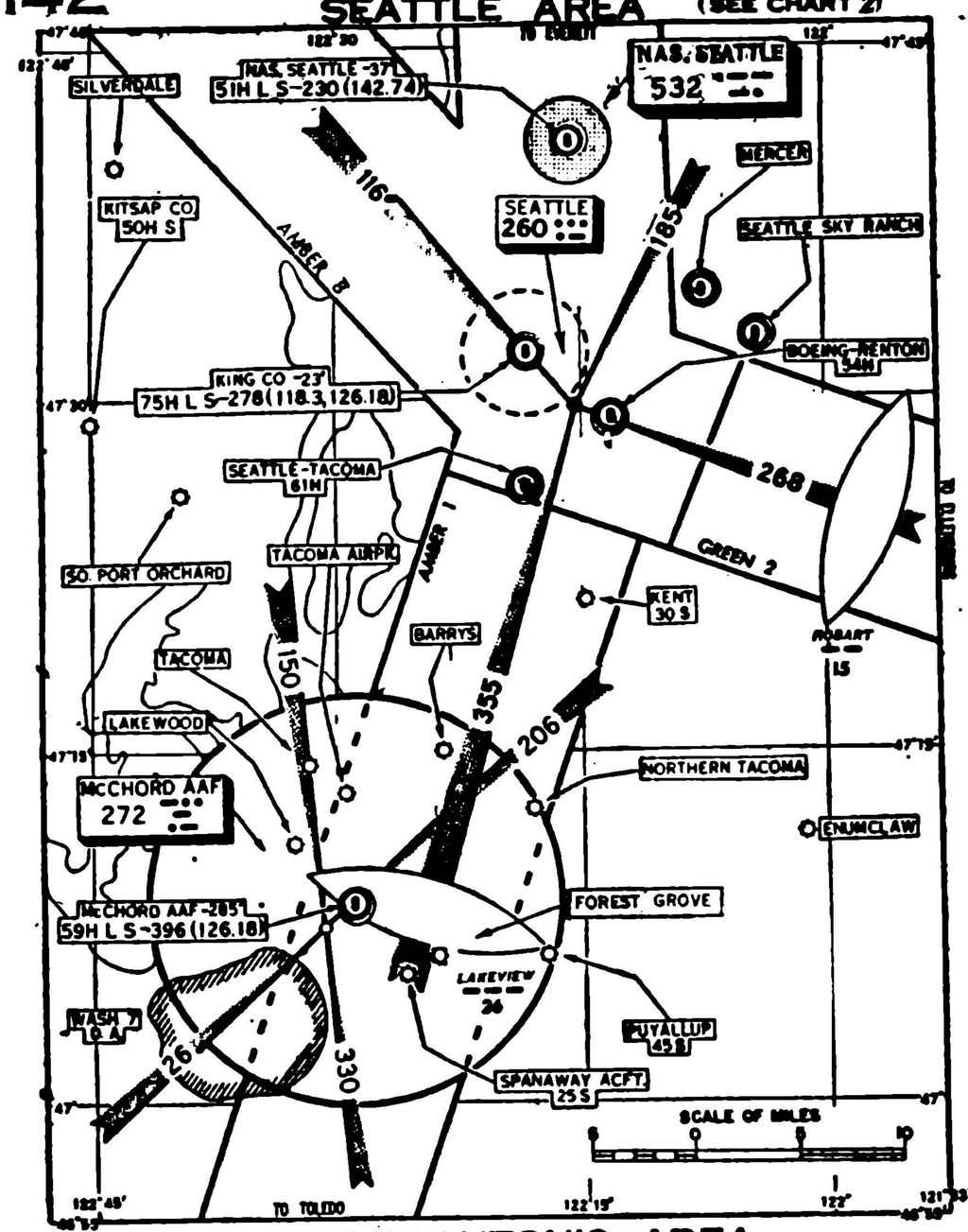
AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Gundlach (Belleville)	1.8 E	514	23	Obsts surround fld.
Lakeside (E. St. Louis)	7 NNE; lake W	420	32 S6	73 oct.
Parks (E. St. Louis)	4.2 SW; RR SE	410	26 L1	25-75' obsts on fld.
Parks Metropolitan (East St. Louis)	3.5 SSW; RR W	420	17h S6	80, 91 oct.
(A) Scott (Belleville)(A)	7.5 ENE; RR S	444	55h R2 L5 S5	73, 91, 100 oct. JP-1.
Wadlow (Alton)	3.5 NNW	600	25 S4	80 oct.
MISSOURI				
Black Walnut (St.Louis)	18 NNW	442	20	
Creve Coeur (St. Louis)	14.5 WNW;lake E	445	37	
Ellisville	0.4 NE; hwy S	750	16 S2	80 oct.
Kratz (St. Charles)	1.1 ESE; RR S	442	30 S6	80, 91 oct.
(N) LAMBERT-ST.LOUI Louis)	10.8 NW;hwy N,W	552	60h R3 L6 S6	80-100 oct. Rdo req.
Machens (NC)	1 NNW	450	41	
Meramec (Valley Park)	1.5 ESE; riv N	440	30 S2	80 oct. Pole line S.
(N) Neubeiser OLP (St.Louis)(N)	22 NNW; riv N	438	20h	
St. Charles	5.3 NNW; RR N	470	29 S6	80 oct. Poles E, N, NE, SE.
Sterling (St. Louis)	14 SSW; RR E	615	26 S4	80, 91 oct. Obsts surround fld.
Sylvan Beach (Penton)	2 NNW	442	42 S2	80, 91 oct. Pole line N.
Weiss (Kirkwood)	4 SW	430	15 S4	80 oct. Pole line NE, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIV.) (NC)-Not charted, → NEW OR REVISED DATA

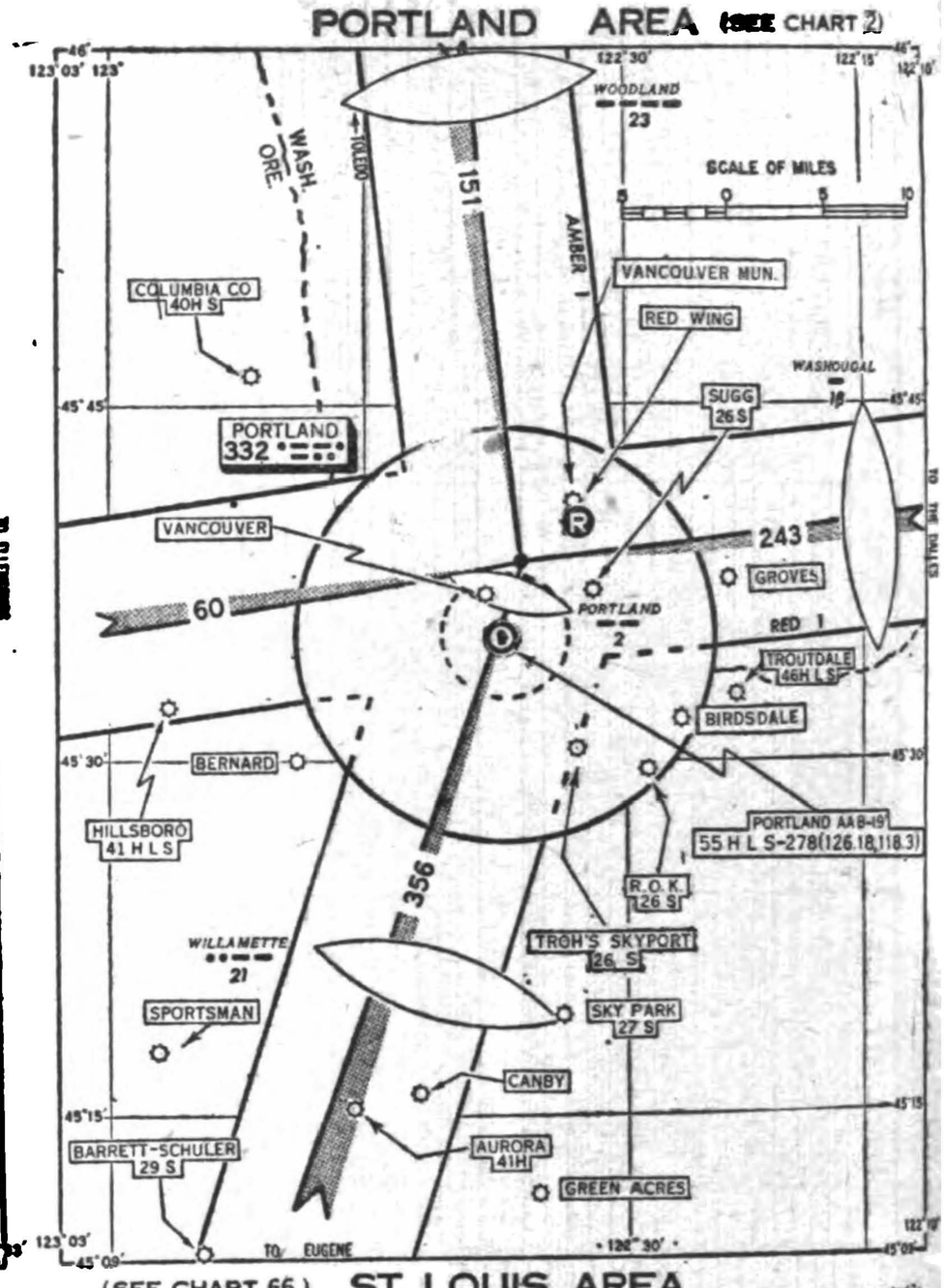
OREGON

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Aurora Flight Strip	1.6 NNW; hwy W	196	41h	
Barrett-Schuler (Woodburn)	2.8 WNW; RR E	200	29 S1	73 oct. Pwr line NNE.
Bernard (Beaverton)	1.4 NNW; RR S	188	18 S6	73, 80 oct.
Canby	0.5 NNW	150	17 S1	80 oct. Pwr line NE, SW.
Columbia Co. (Scappoose)	1.2 NE; RR W	55	40h S4	80 oct. Pole line N, NW.
Dwyer Landing Fld.(Portland)	7 SE; RR NW	200	16	Obsts ENE, WSW. Ditch around strip.
Green Acres (Mulino)	1.9 SSW; RR W	269	18 S4	80 oct. No sto. Obst SSE.
Hillsboro	2.4 ENE; RR S	200	41h L5 S6	73,80 oct. No sto.
(A)(N) PORTLAND AAB (A)	5 NNE; riv N	19	55h R2 L5 S6	73, 91, 100 oct. JP-1.
R. O. K. (Gresham)	2.2 W; RR S	285	26 S5	73 oct. No sto. Pwr line E, ENE.
Sky Park (Oregon City) (NC)	2.7 SE; RR NW	440	27 S4	80 oct. No sto. Pole line S.
Sportsman Arpk. (Newberg)	1 E; riv SW;RR N	173	23 S2	Ltd 80 oct. Trees NNE.
Troh's Skyport (Portland)	6 E; riv N	250	26 S6	80, 91 oct.
Troutdale	1 NW; RR S	34	46h L5 S6	73, 80 oct.
Portland Birdsdale(Portland)	8.5 E;RR N	220	23 S6	80,91 oct.
TEXAS				
ALAMO (San Antonio)	7.8 N;RR SE	783	55h R2 L5 S2	73,80 oct.
Bexar Co. (San Antonio)	7.1 SSW; rd W	640	32 S6	80, 91 oct. Poles,trees N,NW,W,S.
(A) Brooks (San Antonio)(A)	6.5 SSE; RR W	594	52h R1 L5 S6	73,91,100 oct.
Craigg (Sayers)	1.8 W; hwy,RR N	650	41 S1	80 oct.
Davis (San Antonio)	6.7 N; RR SE	780	16 S1	80 oct.
Hurt (San Antonio)	6.5 WNW; hwy W	680	36 S6	80 oct.
(A) Kelly (San Antonio)(A)	6.8 SW; RR NE	676	75h R2 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEAR. STA.
Kuehler (New Braunfels)	1.7 SE; riv NW	720	18	Pole line NW. Cattle.
Lake (San Antonio)	10 S; RR E	700	23 S2	73 oct.
Leon Valley (San Antonio)	8.6 WNW;hwy E	710	40 S6	80,91 oct.Pwr line N.W. NW.
(A) Martindale(San Antonio)(A)	8.1 E; RR S	600	30h	
Mission (San Antonio)	4.5 S; hwy E	567	23 S6	80 oct. No sto. Pole line NNE.
(A) Randolph (San Antonio)(R)	15.8 ENE;RR NW	752	70h R2 L5 S6	91,100 oct. No sto.
Stinson (San Antonio)	6.2 SSE; RR E	567	49h	
Yates (San Antonio)	13.7 N; hwy W	968	33	
(A) Zuehl No. 6 (A)	0.8 NE; hwy NW	610	30h	
WASHINGTON				
Berrys Sky Harbor (Tacoma)	2.3 ENE; riv SW	4	21 S2	Ltd 80 oct. Pole line E.
Boeing-Renton (Renton)	0.9 NW;lake N	32	54h L5	RESTRICTED. All lgts prior req.
Enumclaw	1.5 WSW; hwy E	740	20 S2	Ltd 80 oct. Pwr line E.
→ Groves (Camas)	2.8 N;hwy E	350'	16 S1	Ltd 80 oct. Lake SW.
Kent	1.5 SSW; riv N	30	30 S6	80 oct.
→ (A) KING CO.-BOEING (Seattle)	6 S; riv SW	23	75h R2 L5 S6	80-100 oct.No sto. ARPT OF ENTRY. FOREIGN CLEARING STATION.
Kitsap Co. (Bremerton)	8 SW; hwy NW	482	50h L5 S6	80,91 oct.No sto. Lgts prior req.
Lakewood (Tacoma)	7.5 SSW;RR E	243	22 S1	80 oct. Trees ENE, WSW.
(A) McChord (Tacoma)(A)	7 SSW;lake SE	285	59h R3 L5 S6	73,91,100 oct.JP-1. FOREIGN CLEARING STN.
Mercer (Bellvue)	4.1 ESE;lake E	345	20 S4	80 oct. Tie-down sto.
Northern Tacoma (Puyallup)	1.3 N; RR N,S	20	19 S6	80 oct. No sto.
Puyallup	6 S; hwy W	520	45 S6	80,91 oct.Rnwy data unverified.
R. C. Sugg (Orchards)	3.6 SSE;hwy S	310	26 S6	80 oct. 6.8 E Vancouver.
(N) Seattle NAS (N)	6.5 NNE;lake E	37	51h R1 L5 S6	91,100 oct.
(N) Seattle-Tacoma (Seattle)	10.5 S;RR E	405	61h	Trees and hills surround fld.
Silverdale	1.9 NW;rd E,S	350	19	Poles S. Emergency only.
Sky Ranch (Walla Walla)	1.3 SW		32	Pwr line W. Data not verified.
South Port Orchard (Port Orchard)	7.5 SSW;lake S	350	19 S4	80 oct. No sto. Trees N. S.
Spanaway Acft Co.(Spanaway)	1.2 SSE;RR S	375	25 S1	80 oct. Pole line S.
Tacoma	4.4 W;hwy SE	369	22 S4	80, 91 oct.
Tacoma Airpark (Tacoma)	2.9 WSW;RR E	250	20 S1	Ltd 80 oct. Sharp drop W edge fld.
Vancouver	1 SE	26	19 S6	Ltd 80 oct. No sto.
" mun.	6.7 ENE;hwy W	240	26 S1	80,91 oct.
Forrest Grove (Spanaway)	1.8 E;RR E	340	22 S6	80 oct.

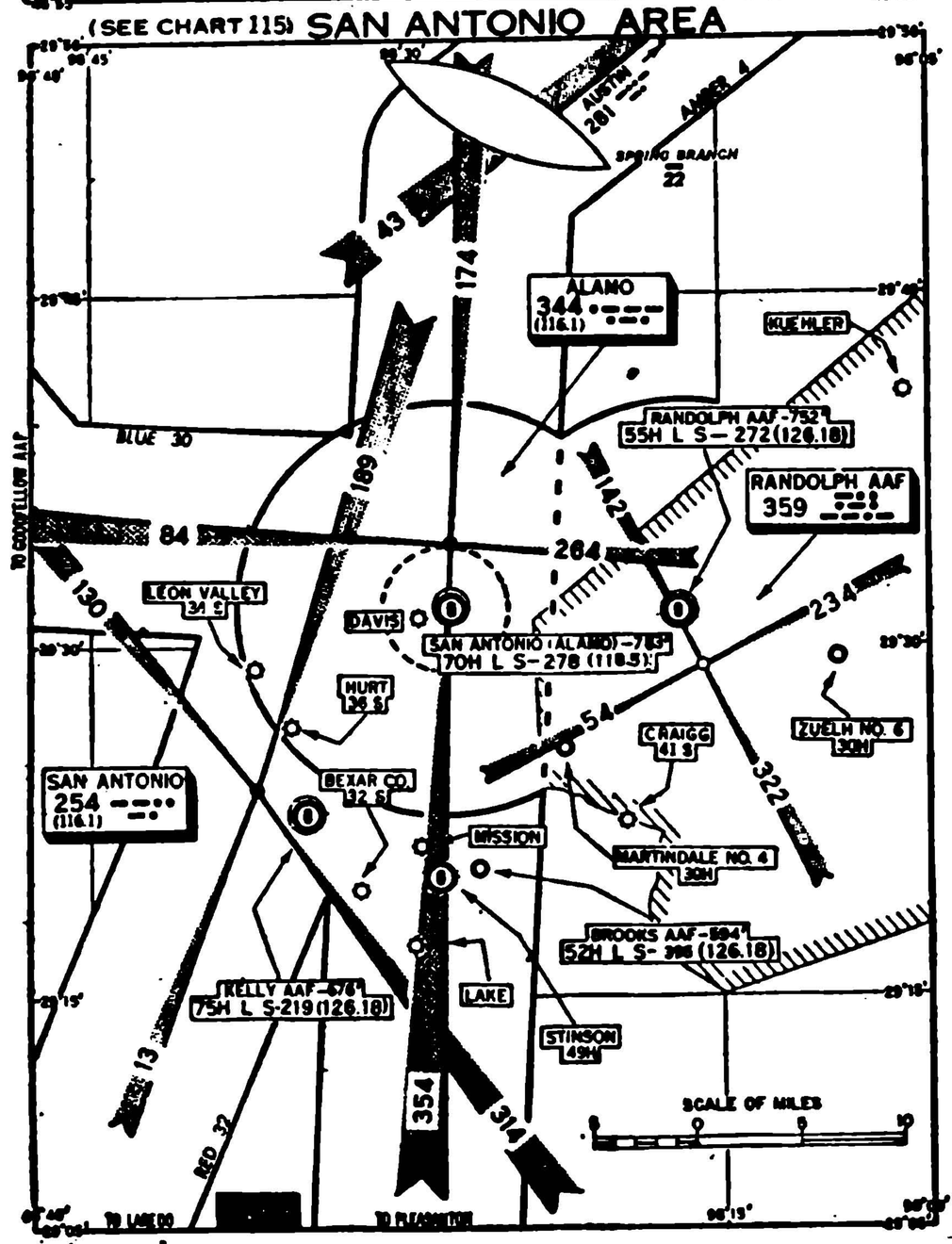
SEATTLE AREA (SEE CHART 2)



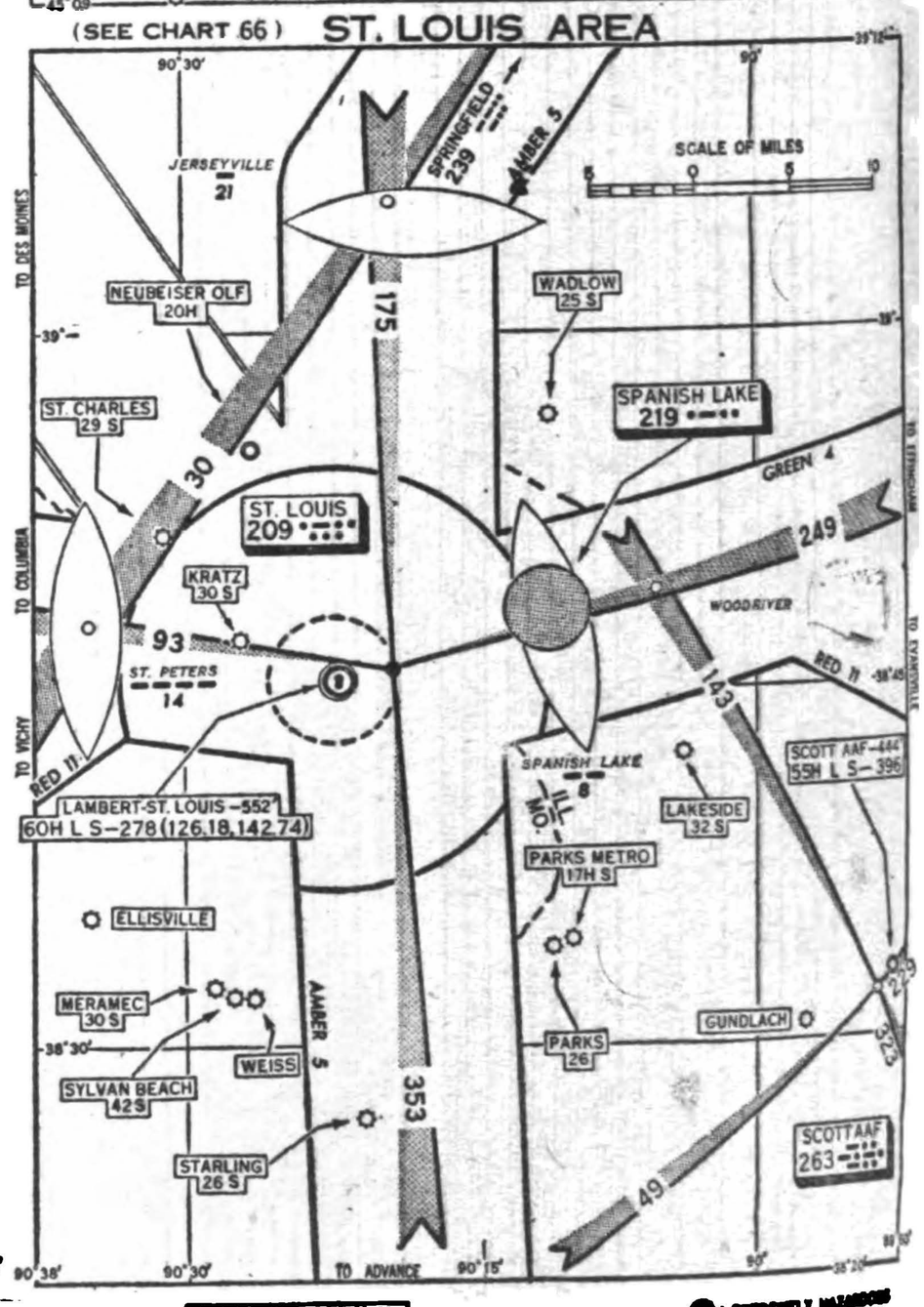
PORTLAND AREA (SEE CHART 2)



SAN ANTONIO AREA (SEE CHART 115)



ST. LOUIS AREA (SEE CHART 66)



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 3500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, ONLY NO CLASS D AIRPORTS SHOWN.

Ⓔ: EXTREMELY HAZARDOUS

Ⓤ: USABLE WITH CAUTION

Directory of Seaplane Bases and Anchorages

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
CALIFORNIA				
(N) Alameda NAS (N)	4.5 WNW	S.L.	211 R1 L5 S6	73,91,100 oct. Ramp; tractor.
(N) Corcoran, Tulare Lake	15.5 WSW	200	74 R1 L1	Buoys. Pole line W.E;dikes NW,W,S
Lakeport, Clear Lake	E of Lakeport	1325	Unl S1	Buoy.
Oakland	6 S	S.L.	S4	Ramp;beach;haul-out.Data unver.
(N) San Diego NAS (N)	4.5 WSW	S.L.	106 R1 L S6	87,100 oct. Ramps; haul-out.
(N) San Francisco CGAS (N)	9 SSE	S.L.	132 L5 S6	91,100 oct. Ramps; all facs.
(N) San Pedro NAS (N)	2 ENE	S.L.	Unl L1 S4	73-100 oct. Ramps; all facs.
CONNECTICUT				
Greenwich	0.8 S	S.L.	Unl	PRIVATE. Ramp. Congested harbor.
Stratford,United Acft.Corp	2 SW	6	53	PRIVATE. Ramp.
Westport	2 S	S.L.	Unl S4	80 oct. Float; marine railway.
DISTRICT OF COLUMBIA				
(N) Anacostia NAS (N)	2.4 SE Mon't	8	106 S4	87-100 oct.Ramp;all fac prior req.
FLORIDA				
Avon Park,Lake Lotela	2 SE; RR SW	100	66 S1	80 oct. Beach. ARPT OF ENTRY.
(N) Banana River NAS (N)	11 SE Cocoa	S.L.	116 L S6	87,98 oct. Ramps; all facs.
Bradenton	Adj N	1	Unl S1	73 oct;80 oct req. Ramp;float.
Clarcona,Hidden Acres	1.5 WNW	90	30 S6	80 oct. Data unverified.
Daytona Beach,Bob Orrell	2 N	S.L.	264 S4	Ramp; float.
" Raymond's	1.5 N	S.L.	Unl S6	80 oct;91 oct req.Ramps;piers;boa
Fort Myers,Gulf Airways	2 N	S.L.	Unl S4	80 oct.Ramp;all facs. Data unver.
(N) Jacksonville NAS (N)	7.2 S	S.L.	Unl R1 L5 S4	91,100 oct. Ramps;all facs.
" Riverside	Adj city	7	Unl S1	80 oct. Beach.Data unverified.
(N) Key West NAS (N)	7 ENE	S.L.	130 R1 L S6	91,100 oct. Ramps;buoys.ARPT OF
Lakeland, Municipal	Adj NE	145	Unl S1	80 oct. Data unverified. ENTRY
Lake Worth, Municipal	Adj city	S.L.	Unl S1	80 oct.Ramp;beach.Obsts E.Unver.
Leesburg, Hal Hoover's	1 N	15	Unl S1	80 oct.Ramp;beach;dock.Data unver.
Melbourne	Adj S	S.L.	Unl S1	80 oct. Float
Miami, Chalk's	2 E;causeway	N S.L.	Unl S4	80 oct. Beach;ramps;winch.
(N) " Dinner Key CGAS (N)	2.5 SE	S.L.	150 L5 S4	100 oct. Ramps; haul-out.
" E.Coast Avia. Service	8 NNE	S.L.	132 S4	80 oct. Ramps;buoys. Obsts.
" Embry Riddle	2 E;causeway	S S.L.	65 S4	80 oct. Ramps.
" Miami Avia. Center	8.5 N	S.L.	Unl S1	80 oct. Data unverified.
Orlando.Orlando Aviation Country Club	5 N	90	60 S1	80 oct. Ramp;beach. Data unver.
" Raymonds	2 W	70	50 S1	80 oct.Float.Twr NE.Data unver.
(N) Pensacola NAS (N)	5.3 SW	S.L.	116 R1 L1 S6	87-100 oct.Ramps; all facs.
(N) " Bronson NAAS (N)	12 WSW	S.L.	Unl L4 S4	87,91 oct. Ramps; all facs.
St. Augustine	Adj SE	S.L.	Unl S1	80 oct. Float; beach; dolly.
St. Petersburg.Albert Whitted	0.75 SE	S.L.	Unl S6	80,91 oct. Data unverified.
(N) " CGAS (N)	2.5 E	S.L.	Unl L S4	80-100 oct. Ramps.
" James Johnstone	7 W	S.L.	Unl S6	80 oct. Ramp; all facs.Data unver.
" Pinellas County	11 NNW	S.L.	Unl S1	80 oct. Data unverified.
Tampa, Peter O.Knight	4 S; arpt W	8	Unl S6	80 oct. Ramps; all facs.
Titusville	Adj NE	S.L.	Unl S1	73 oct; 80 oct req. Data unver.
West Palm Beach, Midet	1 N	S.L.	158 S4	80,87 oct.Ramps;all facs.ARPT OF ENTRY.
IOWA				
Davenport,Elliot Fly.Serv	Adj S	550	60 S1	80 oct.
LOUISIANA				
Westwego	1 E	S.L.	53	PRIVATE. May Brothers.

CITY AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
MAINE				
Bath, New Meadows	2.3 WNW; RR S	12	60	Beach. N,S approaches blocked.
Boothbay,Frank L.Sample Jr	Adj	S.L.	Unl S1	Ramp; float.
Brunswick,Riverside Arpk.	1 WNW;RR,hwy S	60	23 S1	
Dexter,Heart of Maine	0.5 N	433	40	Buoys;boat. Trees N,S,W.
Eagle Lake	3.8 N	574	70 S1	80 oct. Obsts.
East Holden,Holbrook Pond	1.1 NNE	200	50 S1	73 oct. Ramp;dock.
Eastport	1 W	S.L.	Unl	Ramp.
Fryeburg	2 E	358	120	Trees encircle lake.
Greenville,Moose Hd.Lake	0.6 NNW	1028	50 S4	91 oct. Ramp.
" Jct.,Squaw Mt. Inn	1.5 N	1028	52	Buoy;boat;beach;float.
Madison, Tomlinson	6.8 NE	330	130	Boat;beach;ramp.
Naples	0.5 NNW	267	160 S1	80 oct. Boat.
Portage,Portage Lake	0.4 WSW	609	160 S4	80,91 oct. Beach; boat.
Shinn Pond	0.7 NE	900	60 S1	80 oct.Buoys;beach;wharf; Obst.
Winthrop,Inland Fish & Game	2.7 NNE	212	127 S1	80 oct.Buoys;beach;float.
MARYLAND				
(N) Annapolis NAF (N)	1 E	S.L.	Unl S2	Ramp;haul-out;buoys.
(N) Baltimore,Middle River NAF	10 E	S.L.	Unl S6	91,100 oct.Ramp;buoys. (N)
Baltimore	7 S; bay E		Unl L1 S4	Ramps.
Glen Burnie-Whipp	1.5 E	50	100 S6	80 oct. Ramp.
(N) Patuxent River NAS (N)	2.9 NE of Jarboesville	S.L.	Unl S4	90,100 oct. Ramps;buoys.
MASSACHUSETTS				
Agawam	1 SSE	30	100 S6	80 oct. Ramp; all facs.
Beverly,Jubilee Yacht Club	Adj S	S.L.	105 S1	Beach;dock. Avail. May - Oct.
Chatham	Adj W	S.L.	33 S2	Ramp;dolly;buoy.
Holyoke, Smiths Ferry	4.5 N	100	95	Obsts. NE, SW.
Lawrence,Merrimack Valley	2 E	7	83 S4	No sto. Ramp;float.Data unverified.
(N) Salem CGAS (N)	2.5 E	S.L.	150 S4	91,100 oct. Ramps.
(N) Squantum NAS (N)	0.8 W	10	Unl S4	73-100 oct. Ramps;buoys.
Swansea,Swansea Boat Yard	2.5 SSW	S.L.	211	Float;buoys;beach.
MICHIGAN				
Algonac	2.8 W	574	50 S1	73 oct.
Detroit,Motor Boat	6 ENE	575	Unl S1	Dock. Peach Island S.
" Seapl. Patrol Base Inc	4 ENE	575	Unl S1	73 oct. Dock. Belle Island S.
Kalamazoo, Austin Lake	8 SSE; RR E	855	100 S4	80 oct. Boat;beach;tractor.
North Muskegon,Interstate	0.3 S	581	100	Ramp;boat;dolly.
Trenton, Hance	5 NNE	574	Unl S1	73,80 oct. Beach;ramps.
Whitmore Lake	1 NNE	894	84 S4	Beach;boat;ramp.
MINNESOTA				
Bemidji, Moberg	1 NNE	1350	S2	80 oct.
Ely	1.5 W	1337	110 S2	80 oct. Ramps;dock.
Little Falls,Scenic Airways	0.5 N	1110	35 S1	80 oct. Ramps;beach; Poles S.
Marcel, Ranier	0.5 E	1300	30	Trees around lake.
MISSISSIPPI				
(N) Biloxi CGAS (N)	2 ESE	S.L.	54 S4	91 oct. Ramp.
NEW HAMPSHIRE				
Alton Bay,Interstate Awys	Adj N	504	Unl S1	80 oct. Ramp;buoys;wharf.Data unver
Hooksett	2 S	2	80 S6	80 oct. Beach;ramp;tractor.
Lakeport, Paugus Bay	1 NE	504	100 S4	73 oct. Beach;boat;ramp.
The Weirs, Weirs	0.3 SE	504	210 S4	80 oct. Ramps.
Wolfeboro	0.5 SE	504	180 S1	80 oct. Boat;wharf.
" Lakes Region	2.7 W	504	60 S6	80 oct.Ramp; all facs.
" Lake Winnepesaukee	3 WSW		60 S1	80 oct. Data unverified.

R-radio facilities. L-lighting facilities. S-servicing. (See page XIV.) → NEW OR REVISED DATA.

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
NEW JERSEY				
Cape May CGAS	2 NW	S.L.	60	Ramp; haul-out; buoys. INACTIVE
Little Ferry	0.5 E;brdg N	5	40 S6	80 oct.Boat;ramp;tractor.
Perth Amboy	0.5 S of brdg	5	Unl S1	80 oct.Ramp;all facs.Data unver.
Ridgefield Park,Lambrose Air College	0.5 S	5	40 S4	80 oct. Boat; ramp; winch.
Heller-Howard	1 S	5	35 S4	80 oct. Ramp; all facs.
Secaucus, Down Patrol	0.5 N;brdg SW	5	50 S2	73 oct. Winch.
NEW YORK				
Alplaus, Wells	0.5 SW	200	50 S4	80 oct.No sto.Ramp.Hi-line E.
Babylon Skyport	1.5 SW	S.L.	Unl S4	80 oct. Ramps;boat.
Buffalo	7.3 NW	570	103 S6	80 oct. Ramp; all facs.
Cooperstown, Otsego	Adj NNE	1194	Unl S1	80 oct.Float;ramp;buoys;winch.
Dobbs Ferry	0.5 SW	5	100	Marine Ry;ramp;winch;float.
Eagle Bay, Adirondack	0.3 S	1707	70 S1	80 oct. Beach.
Lake George, Hall's	0.5 E	330	52 S1	73 oct. Ramp; all facs.
Montauk Yacht Club	2.5 NE	S.L.	Unl S1	87 oct.Buoys;floats. Avail.May-Oct
New York,Downtown Skyport	Foot Wall St.	S.L.	S1	Floats.
" Evers	11 NE	5	70	Ramp;buoy;boat;winch. Bridge SSW.
(N) " NAS (N)	11.8 SSE	S.L.	100.S4	73,91,100 oct.Ramps;tractor.
" La Guardia	5 E	S.L.	211 L1 S6	73-100 oct. Ramps;winch;buoys.
North Long Beach	0.4 N;brdg SW	S.L.	75 S4	80 oct. Ramp;float.
Ossining, Pickair	0.5 W	3	158 S4	80 oct. Boat;ramp.
Oyster Bay, Cold Sprg Harb.	2 E	10	50	Buoys;beach;boat;dolly.
Piseco, Knox Bay	1.5 S	1661	163	PRIVATE. Boat;beach;tractor.
Port Washington,Grumman	1.5 NW	S.L.	158 S4	Ramps; all facs.
Rochester,Point Pleasant	6 NE	246	Unl S1	80 oct. Ramp;float;dock.
Round Lake	0.5 E;RR S,W	188	48 S6	80 oct. Beach;boat;tractor.
Sag Harbor	0.5 N	5	103	PRIVATE. Ramp;tractor.
White Stone, Queens	1 N	S.L.	200 S4	80 oct Ramp;dock.
Yonkers	S end	S.L.	Unl S4	Ramp. Closed Dec 15 - Mar 15.
NORTH CAROLINA				
Elizabeth City CGAS	3.5 SE	S.L.	106 L1 S4	91,100 oct. Ramps; all facs.
" Harvey Point	13 S	S.L.	Unl	Ramps.
OHIO				
Cleveland,Breckling Air Service	1 E	573	30 S4	80 oct.No sto.Ramp;boat.Data unver buoy
OREGON				
Milwaukie, Portland	3 W	10	32 S4	80 oct. Ramps;boat;beach;winch.
Ocean Lake, Devils Lake	0.7 E	S.L.	59 S4	80 oct.No sto. Beach;winch.
Portland, Safley's	5 NNW	26	60 S1	Ltd 80 oct. Ramp;beach;winch.
PENNSYLVANIA				
Aspinwall, Highland	0.7 S	721	52 S3	80 oct. Ramp;boat.
Beaver	0.5 S	670	50 S1	80 oct. Boat;beach;ramp;tractor.
Coraopolis	0.5 N	675	50 S1	80 oct. Boat;ramp.
Edinboro	1.2 NNW	1200	Unl S1	Ltd fuel.Beach;boat;haul-out.
Harrisburg, Air-Harbor	1 SSW;brdg SE	300	30 S4	80 oct. Boat.No sto.
Kittanning, Sedwicks	0.2 W	769	50	Float;beach;boat.
McKeesport	1.3 NW	718	40 S1	80 oct. Float;ramp.
Milton	1.5 SW	440	50 S	Svcg from Milton Arpt.
Oakmont	Adj NW	725	52 S1	80 oct. Float.
Philadelphia	10 SW	10	Unl S6	80,91 oct. Ramps; all facs.
" Philadelphia Skyport	Center of city	10	Unl S6	Boat;all facs. Data unverified.
(N) " Mustin NAS (N)	4 S	S.L.	120 S6	87-100 oct. Ramp.
Pittsburgh, Buck's	at riv inter.	715	70 S6	87 oct.Boat;beach;ramp;winch.
" Brevosburg	5 SE;jct rivs	718	50 S2	80-100 oct. Ramp;float;boat.
" Highland	5 NNE	721	66 S6	80 oct. Ramp;dock;crash boat.
Rochester	0.5 S	670	78 S1	80 oct. Float;boat.

H-radio facilities. L-lighting facilities. S-servicing. (See page XIV) ⟶ NEW OR REVISED DATA.

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
RHODE ISLAND				
Newport	3 NW	S.L.	Unl	Ramps;buoys;boat.
(N) Quonset Point NAS (N)	16.5 S Provid.	S.L.	Unl L5 S6	91,100 oct. Ramps; all facs.
TEXAS				
(N) Corpus Christi NAS (N)	9.5 SE	S.L.	Unl R1 L3 S5	91,100 oct. Buoys;ramps.
La porte, Fay Bros.	2 NE	S.L.	Unl S1	No sto. Floats;marine ry.Data unver.
VIRGINIA				
(N) Dahlgren NAF (N)	Adj SE	10	S2	Ramp
(A) Langley (A)	3 N Hampton	5	105 S2	Dock;Closed during ice period.
(N) Norfolk NAS (N)	7 N	S.L.	54 R1 L1 S6	87,91,100 oct. Ramps.
(N) Quantico MCAS (N)	1 S	13	180 S4	Buoys;boat;ramp.
WASHINGTON				
Bellingham	5 ESE	307	158 S2	73 oct. Boat;ramp;winch.
" Lakeside Fly. Serv.	3 E	307	106 S1	73 oct. Buoy;boat.
Bremerton	0.75 E	S.L.	211 S6	80 oct.No sto.Ramps;winch;hoist.
(N) " NAS (N)	0.5 S	S.L.	Unl S4	Ramp;buoys;haul-out.
Chelan, Air Harbor	0.8 W	1079	Unl S1	73 oct. Boat;beach;ramp.
Coulee Dam	3 ESE	1275	Unl S2	73 oct. Boat;beach;marine ry.
Longview, Sky Harbor	1.3 ENE	5	37 S1	73 oct. Float;beach.
(N) Oak Harbor NAS (N)	0.5 SE	S.L.	Unl R1 S	Fuel,sto,prior req.Ramps;buoys.
Oroville, Dorothy Scott	1,7 N	913	52	Boat;beach.
(N) Port Angeles CGAS (N)	2 NNE	13	Unl S4	Ramp; all facs.
Port Townsend	Adj S	S.L.	150 S4	Ltd fuel. Buoys.
Prosser, L & D	1 W	632	76 S1	80 oct. Ramp. 100' pole line WSW.
Seattle,Kurtzer Fly.Svcg.	In city	S.L.	79 S4	80 oct. Ramps;hoist.
(N) " NAS (N)	6 NNE	36	300 L S6	87-100 oct. Ramps; all facs.
" Seattle Service	In city	20	53 S2	80 oct. Ramp;boat.
Tacoma, Float Haven	0.7 NE	S.L.	26 S1	80 oct.Ramp;floats;boat;winch.Brdg SSE.
Wenatchee	0.5 E	600	53 S1	73 oct.Boat;beach;ramp.
WEST VIRGINIA				
Charleston,Kanawha Flying School	Center of city	586	50 S6	80 oct. Boat;ramp;winch.
Wheeling	Center of city	630	50 S1	87 oct.Boat. Bridges S.
WISCONSIN				
Madison, Jackson	3 WNW	849	Unl S2	80 oct. Dock; float
Milwaukee	3 ESE;hwy W	585	185 S6	80,91 oct.
Bangor, Down East (Maine)	3 NE		106 S4	80 oct.No sto.Ramp;float;beach.Data unverified.
Fall River (Massachusetts)	2 E	131	119	Data unverified
Gloucester (Massachusetts)	0.3 W	S.L.	50 S4	80 oct.No sto.Morrings;float.Data unverif.
Holyoke,South Hadley(Mass.)	3 N	95	66 S3	80 oct. Data unverified.
Lowell (Massachusetts)	1 W	95	92 S3	Data unverified.
Methuen,Merrimac Val'y(Mass)	2 W Lawrence	45	50	Data unverified.
New Bedford (Massachusetts)	In harbor	S.L.	Unl	Data unverified.
Athens (New York)	Adj E		Unl S1	73 oct. Float. Data unverified.

SPECIAL NOTICE

In compliance with numerous requests from seaplane pilots for immediate coverage, the above admittedly incomplete directory has been compiled. Seaplane base and anchorage operators, whose facilities have not been covered, or have been incompletely covered, are requested to submit complete data to: the Office of Aviation Information, att: A 250, Civil Aeronautics Administration, Department of Commerce, Washington 25,D.C.

NOTICES TO AIRMEN

INTRODUCTION

PROCEDURAL STATEMENT: The AIRMAN'S GUIDE no longer has a separate section for the DIRECTORY OF AIRPORTS or the AIR NAVIGATION RADIO AIDS. These two sections are now inserted as data pages between the flight planning charts. To retain the 2-page chart flow, however, the data pages are found on the reverse sides of the charts rather than facing them. On the data pages are tabulated all the data covering the facilities charted on the reverse sides and formerly found in the DIRECTORY OF AIRPORTS and AIR NAVIGATION RADIO AIDS sections. To facilitate reference to a particular facility, an Index of Facility Locations with the parenthetical number of the page on which the locale is charted has been added to the revised AIRMAN'S GUIDE, e.g., Chicago (139). On the back of page 139 will be found the Air Navigation Radio Aids and the Directory of Airports data covering Chicago.

Because of the serious paper shortage every means of reducing the Airman's Guide bulk has been investigated. Codification and considerable abbreviation are already being utilized. No material may be deleted, however, in this paper conservation program because surveys have revealed that subscribers consider all parts of the Guide essential. Consequently, about the ultimate step in this bulk-reduction direction has just been taken. The data pages backing the charts now serve, where possible, as notam pages. Resultantly, most of the new data formerly notamized in the Notices to Airmen section with prefixed large stars or double asterisks are no longer carried in that section. Only commissionings, abandonments, or changes so potentially hazardous that they are indicated with (R) (for red flag) symbols on the charts, are now cited in the Notices to Airmen section.

Notamizing on the data pages is effected by the use of prefixed arrows as in the former Air Navigation Radio Aids publication. All changes from the previous issue, whether cited in the Notices to Airmen section or not, are indicated by the prefixed arrows. Following are examples of changes notamized only on the data pages: field obstruction, servicing, elevation, location, and runway length changes. Because of the use of the prefixed arrows as new data indicators, a further innovation had to be adopted. This is a heavy black horizontal line device.

Space below the heavy black horizontal lines on the data pages has been reserved as a supplement for new radio aids and airports whose data were received after the data pages were originally typed. Revisions to existing airports and radio aids are super-imposed on the old data, but new airports and radio aids are listed, necessarily out of alphabetical alignment, below the heavy black horizontal lines until the page is re-typed.

In summation: (a) on the data pages backing the charts, new data or revisions are indicated by arrows; (b) in the Notices to Airmen section, citations covering new or revised radio data are prefixed by one large star "★". Citations covering new or revised airport, radio, or miscellaneous data are prefixed by two asterisks "**"

All temporary conditions (field soft, runway under construction, range course out of alignment, etc) are cited in full until they are no longer in effect. When a citation carries a permanent item and a temporary item, the permanent item is underlined. Parenthetical date at end of item indicates time item was reported.

To conform to chart practice, all facility data are listed in the Notices to Airmen section and on data pages alphabetically by states and by facility name. Thus, an airport will be found listed alphabetically under its own name rather than under its locale's name. If the airport or radio facility name is other than that of the city in which it is located, the location is shown in parenthesis after the facility name.

CIVIL FACILITY DATA: Please advise immediately the Office of Aviation Information, Attention A-250, CAA, Department of Commerce, Washington 25, D. C., whenever temporary conditions covering civilian airports or navigational aids begin or terminate, data revisions are effected, or flight hazards are erected or removed.

SPECIAL NOTICES

ARMY DATA: Advice covering Air Forces Fields or Air Forces Operations on civilian fields, or AAF Radio Facilities, and Danger or Caution Area activation, as well as requests for approval for the closing of any army airfields to transient military aircraft for a period in excess of ten days should be directed to: COMMANDING GENERAL, AIR TRANSPORT COMMAND, WASHINGTON 25, D.C. ATTENTION: HEADQUARTERS FLIGHT SERVICES, FLIGHT OPERATIONS. Information to be published will be coordinated and submitted to the C.A.A.

NAVY FACILITY DATA: In accordance with Hydrographic Office Memorandum for Aviations No. 9, July 29, 1946, Hydrographic Office information concerning naval and marine corps air stations and facilities, including changes in field facilities, operation rules, air/ground communications facilities, instrument approach procedures and navigational aids, should be directed to: The Division of Air Navigation, Hydrographic Office, Washington 25, D. C., for transmittal to the Civil Aeronautics Administration. In accordance with Aviation Circular Letter #96-46 of June 13, 1946, approval for the closing of any naval or marine corps air station or facility to transient military aircraft for a period in excess of 10 days must be obtained from the Chief of Naval Operations. Also, approval is to be obtained from the Chief of Naval Operations before relocation or modification of any aid to air navigation, such as reorientation of radio ranges.

POLICY ON ARMY USE OF TEMPORARILY INACTIVE ARMY AIR FIELDS: 1. Municipal airfields which have been used jointly by the Army Air Forces and civil interests and at which Army facilities are temporarily inactive but the civil facilities are still active, may continue to be used by military aircraft. No servicing other than that provided by commercial concerns will be available. Such airfields will be identified herein by the following notice: "Army temp inactive - civil facs". 2. Temporarily inactive Army airfields used exclusively by the Army Air Forces (either owned or leased) or municipal airfields used jointly by the Army Air Forces with civil interests at which both Army and civil facilities are inactive will be available to military aircraft on official business only under written orders of an air force, command or higher authority. Individual orders for each flight rather than blanket authority is desired. Such airfields will be identified herein by the following notice: "Temp inactive - no facs. (see Special Notice re use)". Operation of Air Transport Command hospital evacuation aircraft will not be limited in any respect by above policy. Above policy statement is not to be construed as countermanding any AAF regulations or letters governing command use of municipal airports or Army airfields.

"OFFICIAL BUSINESS" AS APPLIED TO AAF: The term "official business", within the meaning of AAF Regulation 85-2, is interpreted as the necessity for personnel aboard an aircraft to contact personnel, units or organizations at or near the airfield selected for landing for the purpose of conducting transactions in the service of, and in the interest of, the United States Government. This does not include the use of an airfield by transient aircraft for the purpose of obtaining aircraft clearance, service, or other items attendant with itinerant operations. Cross country flights for the purpose of maintining flying proficiency are not considered to be official business within the meaning of this regulation.

AIRPORTS AVAILABLE FOR USE BY MILITARY AIRCRAFT: The attention of Army clearance personnel and of Army pilots is invited to provisions of Section III of Army Air Forces Regulation 85-2, which states in part: "The use by Army aircraft of private airports which have not been leased, purchased, or otherwise acquired by the

✓ Indicates new or revised Special Notice.

Federal Government is unauthorized except in case of emergency or for official visits authorized by an Air Force or Command". This Regulation furhter states "AAF transient itinerant acft may utilize: (a) Government or DLA (development landing area) type airports, subject only to such restrictions as may be listed from time to time in Weekly Notice to Airmen..... (b) Private arpts when legal permits for their limited use are procured by, and filed with the real estate agency of the War Department.....". Reference to the AAF Installations Directory,and to the Data Pages as well as the Notices to Airmen section of this publication should be made in case of doubt as to the proper use of fields. In the Directory of Airports section, all AAF installations are designated by the prefix (A), Navy by (N), and DLA Field by (P).

RESTRICTION ON C-45, AT-7, AT-11, F-2, and CQ-3 ARMY AIRCRAFT: Upon compliance with following items and notation in Form 1B of each aircraft certifying completion, above types of aircraft may be cleared for IFR flight: (a) Replace all gyro units which on flight check spill either gyro at less than 45°; (b) Compliance with T.O. 01-90C-9; (c) Compliance with applicable modifications on auto-pilots prescribed by T.O.'s 01-90-50, 01-90-54, 01-90-52, 01-90-56; (d) Modify receiver dials so that index is turned 90° toward pilot as described in item 7, page 6, T.O. 00-65-14; (e) Periodic inspections prescribed in T.O. 05-45BA-2 for Jack and Heintz instruments and T.O.45AB-2 for Sperry instruments.

RESTRICTION ON FLIGHT OF AAF AIRCRAFT IN NEW YORK CITY AREA: Effective immediately no AAF acft except those on scheduled transport operations will be cleared to New York City Area unless point of first intended landing is Mitchel Field, Hempstead, L.I., N.Y. When instrument conditions prevail in New York City Area, no Army acft except those on scheduled transport operations will land at or take off from other than Mitchel Fld. When contact conditions prevail in New York City Area, acft which have been cleared for Mitchel Fld but which desire to land at other authorized fields in New York City Area will, when approaching New York City Area, obtain clearance from New York Flight Service thru normal communication means. For purposes of these instructions, New York City Area is defined as a circle 50 miles in diameter centered on southern tip of Manhattan Island. Contact weather New York Area will be considered to be: 2000 feet ceiling,3 miles visibility,both day and night. When cloud conditions exist below 2000 feet,flight conditions will be considered IFR.

MILITARY AND NAVAL LANDINGS IN NEWFOUNDLAND: All military and naval air craft landing in Newfoundland should use Harmon Field at Stephenville or Naval Operation Base at Argentia. Gander has very limited military facilities and is reserved for commercial and weather diverted military aircraft.

RESTRICTIONS ON AAF HELICOPTERS: YR-5A, R-5A, YR-5D, R-5D (excpet as indicated below*) and YR-5E helicopters are grounded and will not be flown.

*R-5D helicopters No. 43-46643 and subsequent have been modified by the contractor and may be released for flight.

ARMY FOREIGN CLEARING STATIONS: Under the authority of AAF Regulation 61-4, Army aircraft with destinations listed below or returning therefrom to the United States will clear through the stations indicated: AFRICA - Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. ALASKA - McChord Field, Wash.; Great Falls AAF, Mont.; or Boeing Field, Wash. BERMUDA - Mitchel Field, N.Y.; Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. CANADA - Great Falls AAF, Mont.; McChord Field, Wash.; Washington National Airport, D.C.; Boeing Field, Wash.; Selfridge Field, Mich.; or Westover Field, Mass. CANAL ZONE, CENTRAL AMERICA, MEXICO, AND SOUTH AMERICA - March Field, Calif.; Kelly Field, Tex.; or Morrison Field, Fla. CARIBBEAN - Morrison Field, Fla. ENGLAND, GREENLAND, ICELAND, NOVA SCOTIA, NEWFOUNDLAND, AND NORTH IRELAND - Washington National Airport, D.C., and Westover Field, Mass. (Note: Selfridge Field also will clear for Nova Scotia and Newfoundland). HAWAII - Fairfield-Suisun AAF, Calif.

ARMY AIRWAYS FACILITIES CHANGES AND ADDITIONS: In accordance with AAF Letter 100-74 and AAF Manual 100-63-1, the AAF Military Flight Service Communications System will be implemented in the near future. This new system, which replaces the leased CAA communications system now used for CFR flight plans and associated communications, will handle AAF operational point-to-point and air-ground communications pertaining to departures, arrivals, emergency rescue, hurricane evacuation, flight advisories, clearances, transportation and cargo services, training, bomb scoring, and RON messages. The CAA will continue to handle IFR flight in accordance with statutory responsibility.

This system will be operated by nine AAF military Flight Service Communications Centers located at the following points, which will have an area of responsibility corresponding to that of two or more CAA airway traffic control centers: McChord Field, Washington; Hamilton Field, Calif.; March Field, Calif.; Lowry Field, Colo.; Ft. Worth AAF, Texas; Maxwell Field, Ala.; MacDill Field, Fla.; Olmsted Field, Pa.; and Wright Field, Ohio. Communications between Military Flight Service Communications Centers will be by teletype normally; and communication between such centers and AAF air bases will be by interphone circuits.

System will be placed in effect on a trial basis on October 1st and it is contemplated that all facilities will be available and system will go into regular operation November 1st.

When installation is completed, communication with Army aircraft will be accomplished by means of HF and VHF installations as listed below:

HF Installations

EAST ZONE: Wright Field, Ohio, Maxwell Field, Ala.; Grenier Field, N.H.; Olmsted Field, Pa.; Pope Field, N.C.; MacDill Field, Fla.;Brookley Field, Ala.

CENTRAL ZONE: Rapid City AAB, S.D.; Lowry Field, Colo; Biggs Field, Tex.; Ft. Worth AAF, Tex.; Sherman Field, Kans.; Wold Chamberlain Field, Minn.; Kelly Field, Tex.; Scott Field, Ill.

WEST ZONE: McChord Field, Wash.; Medford AAB, Ore.; Hamilton Field, Calif.; March Field, Calif.; Luke Field, Ariz.; Hill Field, Utah; Great Falls AAB, Mont.

HF air/ground radio stations will operate on a common voice frequency of 4765 kc, common CW frequencies of 4595 and 8200 kc, with East Zone HF voice on 2862 and 4845 kc, Central Zone HF voice on 2936,4630 kc,and West Zone HF voice on 2862 and 4697.5 kc. The zone voice channels will be used mainly for local training missions. Detailed outline is given in AAF Manual 100-63-1.

VHF Installations

Andrews Field, Md.; Barksdale Fld, La.; Bergstrom Fld, Tex.; Biggs Fld, Tex.; Brookley Fld, Ala.; Casper AAF, Wyo.; Chanute Field, Ill.; Clovis AAF, N.M.; Columbus AAF, Miss.; Davis-Monthan Fld, Ariz.; Dow Fld, Me.; Eglin Fld,Fla.;

Ellington Fld, Tex.; Enid AAF, Okla.; Ft. Dix AAB, N.J.; Ft. Worth AAF, Tex.; Goodfellow Fld, Tex.; Great Falls AAF, Mont.; Greater Pittsburgh Arpt, Pa.; Greenville AAB, S.C.; Grenier Fld, N.H.; Hamilton Fld, Calif.; Hill Fld, Utah; Kearney AAF, Nebr.; Kelly Fld, Tex.; Kirtland Fld, N.M.; Langley Fld, Va.; Las Vegas AAF, Nev.; Lawson Fld, Ga.; Lockbourne AAB, Ohio; Lowry Fld., Colo.; Luke Fld, Ariz.; MacDill Fld, Fla.; March Fld, Calif.; Maxwell Fld, Ala.; McChord Fld, Wash.; Medford AAF, Ore.; Memphis Mun. Arpt., Tenn.; Merced, AAF, Calif.; Mitchel Fld, N.Y.; Moody Fld, Ga.; Morrison Fld, Fla.; Olmsted Fld.; Pa.; Orlando Air Base, Fla.; Pocatello AAF, Idaho; Pope Field, N.C.; Portland AAB, Ore.; Rapid City AAB, S.D.; Robbins Field, Ga.; Rome AAF, N.Y.; Roswell AAF, N.M.; Scott Field, Ill.; Sedalia AAF, Mo; Selfridge Fld, Mich.; Shaw Fld, S.C.; Smyrna AAF, Tenn.; Spokane AAF, Wash.; Tinker Field, Okla.; Tonopah AAF, Nev.; Sherman Fld, Kans., Turner Fld, Ga.; Walla Walla AAF, Wash.; Westover Fld, Mass.; Wold-Chamberlain Fld, Minn.; Wright Field, Ohio.

Each VHF air/ground station will constantly guard two frequencies 116.1 mc and 137.88 mc and be capable of transmitting on either frequency. It is planned that 116.1 mc which is a common frequency will be used as secondary until such time as all aircraft are equipped with the eight channel VHF set. All aircraft equipped with 137.88 mc will use that frequency. Insofar as operating personnel allotments allow and the volume of air traffic dictates, facilities for VHF D/F Homing will be provided.

FLIGHT SERVICES CENTER BOUNDARIES:

McChord Field Flight Services Area: Encompasses present Seattle and Great Falls CAA Areas.

Hamilton Field Flight Services Area: Encompasses present Oakland and Salt Lake City CAA Areas.

March Field Flight Services Area: Encompasses present Los Angeles, Albuquerque and El Paso CAA Areas.

Lowry Field Flight Services Area: Encompasses present Denver, Minneapolis, Kansas City CAA Areas.

Ft. Worth Flight Services Area: Encompasses present Ft. Worth and San Antonio CAA Areas.

Maxwell Field Flight Services Area: Encompasses present Memphis, New Orleans, Atlanta CAA Areas.

MacDill Field Flight Service Area: Encompasses present Jacksonville and Miami CAA Areas.

Olmsted Field Flight Service Area: Encompasses present Washington, Pittsburgh, N. Y., and Boston CAA Areas.

Wright Field Flight Service Area: Encompasses present Detroit, Cleveland, Cincinnati, St. Louis, and Chicago CAA Areas.

STANDARD NAVY GROUND CONTROL APPROACH FREQUENCY ASSIGNMENTS: Allocations of frequencies, both HF and VHF, for Navy GCA use have been coordinated with the AAF. Universal frequencies allocated primarily for Navy GCA operational use are as follows: HF Communications - 3475 kcs., 4890 kcs., 6640 kcs; VHF communications- 134.64 mcs., 142.02 mcs., 143.64 mcs. As a safety precaution, Navy GCA Units will also be prepared to control aircraft on 140.58 mcs., the Navy emergency frequency. To provide a means whereby Navy aircraft may receive assistance from Army GCA Units and vice-versa, the following agreement will govern: (a) Army GCA Units will at all times be prepared to control Navy Aircraft on 140.58 mcs. (b) Navy GCA Units will at all times be prepared to control AAF aircraft on 131.40 mcs. It is the responsibility of the pilot desiring GCA assistance to establish communication with the appropriate control tower for preliminary approach instructions. The pilot will then be instructed as to the proper frequency for contacting the GCA Unit. Navy GCA Operational Units are located as follows: Whidbey Island NAS, Wash.; Charlestown NAAS, R.I.; Oakland NAS, Calif.; Camp Kearney NAAS Calif.; Seattle NAS, Wash.; Olathe NAS, Kans.; Oceana NAAS, Va.; Patuxent River NAS,

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LORAN DATA: Loran is a long range electronic navigational aid utilizing pul techniques. It provides accurate fixes for the user within 1 per cent of his distance fro the stations. Loran service is provided continuously twenty-four hours a day. Loran operates on fixed frequencies of 1750, 1850, and 1950 kilocycles. To use Loran it is re quired that a Loran receiver-indicator be employed and that suitable charts and tables available to the navigator. The following is a list of Coast Guard and Canadian Loran rates presently in operation: Atlantic: 1L0, 1L1, 1L2, 1L3, 1L4, 1L7, 1H1, 1H2; West Coast U.S.: 2H4, 2H5, 2H2; Aleutian Area: 1L0, 1L1, 1L2; Central and Western Pacific 2L0, 2L1, 2L2, 2L3, 4H2, 4H3, 4H4, 4H5, 1L6, 1L7. Information regarding Loran cove age, rates, frequency, etc., throughout the world is contained in the Catalog of Loran Charts and Service Areas, Hydrographic Office Publication No. 1-L. This publication be obtained from Hydrographic Office agents located in various cities in the United Sta or from the Hydrographic Office, Washington, D. C., at a cost of $0.30. Complete Lor tables are contained in Hydrographic Office Publication Series No. 221, which can be ob tained from the same sources at a cost of $3.00 per volume. Loran charts may be sim larly obtained. Hydrographic Office Circular No. 3 and the Hydrographic Bulletin (issu weekly) give a list of these agents mentioned above and may be obtained without charge from the Hydrographic Office or any Branch Hydrographic Office. Changes in Loran service are broadcast in Hydrolants and Hydropacs, and as local broadcasts, the statio frequencies, and schedules being listed in the first Hydrographic Bulletin issued each month. Inquiries of an operational nature regarding Loran may be addressed to the Commandant (OAN), U.S. Coast Guard, 1300 E Street, N.W., Washington, D. C.

CIVILIAN USAGE OF MILITARY FIELDS: Army and Navy fields are open to civilian fliers only in emergency or with prior permission of the commanding officers thereof.

✓ FOREIGN ENTRY PROCEDURES: The following procedures are necessary in order to gain entry, with intention to land, in Canada and Mexico:

CANADA: 1. All departures from the United States must be made from the following Airports of Entry: Caribou Arpt, Me.; Presque Isle Arpt, Me.; Detroit City Airport, Mich.; Romulus AAF, Mich.; Sault Ste. Marie Arpt, Mich.; Williamson-Johnso Field, Duluth, Minn.; Cut Bank Arpt, Mont.; Great Falls Arpt, Mont.; Havre City-Count Airport, Mont.; Albany Arpt, N. Y.; Buffalo Arpt, N.Y.; Malone-Dufort Arpt., N.Y.; Massena Arpt, N.Y.; Ogdensburg Arpt, N.Y.; Rochester Arpt, N.Y.; Rouses Point Sea-planes Base, N.Y.; Watertown Arpt, N.Y.; Grand Forks Arpt., N.D.; Pembina Arpt, N.D. Cleveland Arpt, Ohio; Hinde Arpt, Sandusky, Ohio; Put-In-Bay Arpt, Ohio; Austin Arpt, Swanton, Vt.; Burlington Arpt, Vt.; Bellingham Arpt, Wash.; City-County Arpt, Port To send, Wash.; Felts Field, Spokane, Wash.; King County Arpt., Boeing Field, Seattle, W (2) If landing is to be made at a designated Canadian Airport of Entry, notice should be telephoned or telegraphed to the collector of customs at the predetermined point of ent when clearing U.S. Customs. (3) If entry is planned at a field other than a customs air port, arrangements should be made with the Secretary, Customs Division, Department of National Revenue, Ottawa, at least 10 days in advance. (4) Pilots and aircraft must be properly certificated and general observance of Canadian air regulations is require (5) The following is a list of all Canadian Customs Airports of Entry: Whitehorse, Y. Vancouver, B.C.; Calgary, Alta.; Lethbridge, Alta.; Moose Jaw, Sask.; Regina, Sask.; Winnipeg, Man., Ottawa, Ont.; Toronto, Ont. (Island or Malton); Hamilton, Ont.; Winds Ont.; Montreal, P.Q. (Dorval); Fredericton, N.B.; St. John, N.B.

MEXICO: Applications for permits may be filed with the nearest Mexican consul who charges a fee of $4.00, or directly with the Department of Civil Aeronautics, Mexico City, Mexico, without charge. The permit will be sent directly to the Airport of Entry named in the application, unless the applicant specifically requests that it be sent to his home address. If entry is to be made from Brownsville, Tex., permission may be received from Representative of Mexican Ministry of Communication and Public Works, Department of Civil Aeronautics, Rio Grande Valley International Airport, Brownsville, Texas. All departures from the United States must be made from the following Airports of Entry: International Arpt, Douglas, Ariz.; Nogales International Arpt, Ariz.; Lindbergh Field, San Diego, Calif.; Meacham Fld, Key West, Fla.; Miami International AAF, Fla.; Midet Seaplane Base, West Palm Beach, Fla.; Eagle Pass Arpt, Tex.; El Paso Arpt, Tex.; International Airport, Brownsville, Texas.

CUSTOMS REPORTS: In making flights TO or FROM a foreign country, civilian fliers are required to report to a customs officer. If they do not report, they are subject to a civil penalty of $500.00 for each violation, and any aircraft used in connection with any such violation is subject to seizure and forfeiture, as provided for in the customs laws. On flights from foreign territory, the first landing in the United States is required to be made at an airport of entry, unless permission to land elsewhere than at an airport of entry is granted by the Commissioner of Customs, Washington 25, D. C. Consult the nearest customs officer before making foreign flights.

U.S. CIVIL AIRCRAFT CLEARANCE FOR FOREIGN COUNTRIES: Although the CAA does not require special permission for the flight of U.S. aircraft abroad, or for the delivery of aircraft exported to foreign countries all aircraft must be registered and certificated as to airworthiness, and pilots must hold appropriate U.S. pilot certificates. The single exception to the above is: Special permission must be obtained from the Director, Aircraft and Components Service, CAA, Washington, D.C., for any flight into or through the Panama Canal Zone. In general, permission must be secured from foreign countries for the conduct of scheduled or non-scheduled operations from the U.S. Specific information may be secured from the Aviation Division, State Department. All air carriers must secure operating certificates from the CAA and their operations must be in conformance with these certificates. Although there are no Federal taxes on the exportation of aircraft from the U.S., it is mandatory that a license for such export be obtained from the State Department.

CANADIAN REGULATIONS FOR CFR FLIGHTS: (a) It is compulsory for pilots desiring to conduct a CFR flight to file a flight plan unless the flight will be made within a radius of 25 miles of the point of departure. (b) Arrival messages must be filed by pilot on all such CFR flights.

CANADIAN INSTRUMENT FLIGHT RULE FLIGHT: Pilots are cautioned to conform to the requirements of CAR 60.2 where flight is proposed to be conducted under Instrument Flight Rules from the United States into air traffic control areas designated in Canada. Failure to adhere to these regulations may result in detention of pilots concerned by Canadian Authorities.

PANAMA CANAL ZONE, FLIGHT INTO: Prior to take-off from Miami, New Orleans, or Brownsville, or other port of embarkation on any aircraft flight into, through, or out of the 200 mile intermediate area blanketing the Canal Zone, commanders of military aircraft will secure a Fighter Command clearance by filing a flight plan. With a view to the safe-guarding and protection of their equipment and personnel, operators of all other aircraft should follow the same procedure. Responsibility for this notification of flight plans is delegated to the clearance authority at the point of departure.

SAN JUAN, P.R. PRE FLIGHT CLEARANCES: The Isla Grande Airport at San Juan, Puerto Rico, is a part of the U.S. Naval Air Station, San Juan. Commercial air carriers may not operate at this field without receiving specific authorization from the Chief of Naval Operations, Washington, D.C. The Commanding Officer NAS, San Juan, may grant permission for one or two isolated landings. In any case proper authority must be obtained prior to landing at San Juan. Privately owned aircraft in a ferry status must obtain permission from the commanding officer before landing at Isla Grande Arpt.

PRE FLIGHT SERVICE: Pilots desiring to file flight plans are requested to do so with any CAA Airway Communication Station by personally visiting the station or by telephone. Radio should be used for filing flight plans only as a last resort. Pilots are urged to visit communications stations to obtain authentic flight information and assistance in planning their flights. Personnel at these stations are trained to render flight planning assistance. An objective of CAA pre flight service is to encourage pilots to familiarize themselves with flight conditions prior to commencing cross country flight.

TRAFFIC CLEARANCES: In order to prevent delay to aircraft operating in contact flight rule weather conditions and yet ensure adequate separation when and if instrument flight rule weather conditions are encountered, traffic clearances to pilots filing instrument flight rule (IFR) flight plans may amend such flight plans by requiring flight in accordance with contact flight rules (CFR) for all or a portion of the flight. A traffic clearance will specify the approved altitude followed by the abbreviation "CFR". Upon receipt of such clearance, the pilot will be responsible for avoiding other aircraft while operating in CFR weather conditions and for securing an amended clearance at the specified altitude before IFR weather conditions are encountered. The pilot must remain in CFR weather conditions until the amended clearance is received. For efficient operation, the use of this procedure can be determined only by Air Traffic Control. Pilots, therefore, should not file "altitude/CFR" in any flight plan; "altitude/CFR" is to be used only in a traffic clearance issued by Air Traffic Control.

AIRPORT APPROACH ZONES AND AIRPORT TRAFFIC ZONES CFR MINIMA: Part 60 specifies that CFR traffic within Airport Traffic Zones or Airport Approach Zones must maintain 500 foot vertical and 2000 foot horizontal separation from the clouds unless given traffic clearance by the control tower or control center concerned. Even under such clearance CFR flights must remain clear of clouds. These airport traffic zones and airport approach zones are indicated on the Flight Planning Charts of the Airman's Guide, and all recently revised Coast and Geodetic Survey Aeronautical Charts. In the interest of safety CFR flights must maintain the 500 foot and 2000 foot minima specified above while in these circular charted zones. (see page VIII of this publication for air traffic control procedures and weather minima).

EL PASO AIRWAY TRAFFIC CONTROL CENTER COMMISSIONING: The El Paso Center was commissioned 0001 M.S.T., October 1, 1946. (See next item for boundaries).

AIRWAY TRAFFIC CONTROL AREA AND FLIGHT ADVISORY AREA BOUNDARY CHANGES: Effective 0001 M.S.T., Oct. 1, 1946, the following airway traffic control area and flight advisory area boundaries resulted from the commissioning of El Paso Center:

El Paso Boundaries: Green 5 - 25 miles NW of Tucson to 25 miles W of Abilene; Amber 3 - 25 miles N of Engle to intersection of Green 5; Blue 30 - Big Spring to 25 miles SE of Big Spring; Red 51 - El Paso to 25 miles SE of El Paso.

El Paso Advisory Area: 25 miles NW of Tucson on Green 5 due S to the International Boundary; along the International Boundary to a point 102°; NE to a point 101° 20' - 31° 55'; E to Wingate, Texas; N to Trent, Texas; NW to but excluding South Plains AAF; W to a point 111° 05' - 33° 30', and S to the starting point.

Revised Albuquerque Boundaries: Amber 3 - 25 miles N of Engle to 25 miles S of Pueblo. Delete all of Green 5.

Revised Albuquerque Advisory Area: Western Boundary starting at a point 112° - 36°; NE to a point 108° - 38°; E to a point 101° 30' - 37° 30'; SE to a point 25 miles NE of Gage on Green 4; S to a point 99° 36'; W to a point 25 miles E of Amarillo on Red 24; S to a point 25 miles SE of Amarillo on Red 10; S to and including South Plains AAF; W to a point 111° 05' - 33° 30'; 25 miles SW of Winslow on Red 9; W to a point 25 miles E of Prescott on Green 4, and N to the starting point.

Revised Fort Worth Boundaries: Green 5 - 25 miles W of Abilene to 25 miles NE of Texarkana. Delete Blue 30 - Colorado intersection to 25 miles S of Colorado intersection.

Revised Fort Worth Advisory Area: Western Boundary starting at Wingate, Tex.; N across Green 5 to Trent, Texas; NW to but not including South Plains AAF; NNE to a point 25 miles SE of Amarillo on Red 10; N to a point 25 miles E of Amarillo on Red 24; NE to a point 99° - 36°; E to a point 25 miles NE of Newalla on Amber 4; E to a point 94° 30' - 35° 31'; SE along the W edge of Blue 13 to a point 25 miles N of Texarkana; E across Blue 13 to a point 25 miles W of Monroe on Red 10; SW to a point 25 miles SW of Shreveport on Blue 13; SW to a point 25 miles SE of Waco across Blue 5 and Amber 4; and NW to the starting point.

Revised San Antonio Boundaries: Blue 30 - San Antonio to 25 miles SE of Big Spring.

Revised San Antonio Flight Advisory Area: Western Boundary only portion affected. Starting at a point on the International Boundary at 102°; NE to a point 25 miles SE of Big Spring on Blue 30; E to Wingate, Tex.; and SE to 25 miles SW of Waco on Amber 4. Balance unchanged.

BOUNDARY CHANGE BETWEEN KANSAS CITY AND ST. LOUIS AIRWAY TRAFFIC CONTROL CENTERS: Effective October 1, 1946, the boundary between these two centers on Amber Airway #4 was changed to 25 miles S of Chanute, Kans., range station; on Blue Airway #22 to 25 miles SE of the Portland intersection (NW Tulsa and S Wichita).

NEW PRIVATE FLIER FREQUENCIES: Effective Jan. 1, 1947, all CAA Communications Stations will guard 122.1 mcs. and CAA operated towers will guard 122.5 mcs. in addition to those now guarded. These are the new frequencies assigned for use by the private fliers for air/ground communications.

GUARDING OF 3117.5 KCS. BY CAA AIRWAY COMMUNICATIONS STATIONS: Effective Oct. 1, 1946, all airway communications stations located at points also served by CAA airport traffic control towers discontinued continuous listening watches on 3117.5 kcs. Thereafter, communications stations at these locations will establish watches on 3117.5 kcs upon "request" and during such hours as the associated tower is closed

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OPERATION OF SEAPLANES ON THE NEW YORK STATE CANAL SYSTEM: An official complaint has been received from the State of New York, Department of Public Works, that the New York State Canal channel is being used for the taking off and landing of aircraft. This channel is very narrow and has numerous curves. The taking off and landing of aircraft on this channel, therefore, is dangerous and presents a hazard to canal traffic and small boats. All airmen are cautioned that such activities may constitute careless of reckless operation of aircraft.

FEDERAL AIRPORT ACT HEARINGS AND PROCEDURES: All details of the Civil Aeronautics Administration's rules and regulations for use of federal money in airport construction will be open for discussion the week of October 28, 1946. Those invited to the hearings are U.S. Conference of Mayors, American Municipal Association, National Institute of Municipal Law Officers, Council of State Governments, and the National Association of State Aviation Officials. Others, of course, may present their views, and the CAA will welcome briefs and memorandums submitted not later than November 8, 1946. Forms are now in the CAA's field offices for preliminary project requests. These are important to the CAA not only in planning its first year's work, but also in preparing the National Airport Plan, required by the Act. Once a project is tentatively selected, formal applications must include the sponsor's complete plans and specifications for the airport in question. The sponsor's assurance agreement, required in the tentative rules and regulations, lists all the responsibilities undertaken by a municipality. The provision that the federal funds be used to pay 25% of the cost of land brings up a number of rules regarding appraisal, title guarantee, etc. Communities also are reminded that federal money may be requested to pay for projects and planning that have been initiated since the law was signed, May 13, 1946. The proposed rules and regulations, published in toto in the Federal Register, can be obtained from the Superintendent of Documents, Washington 25, D.C., for 15¢, for study prior to the public hearings in October.

AERONAUTICAL CHART AND PUBLICATION CORRECTIONS: (a) Correct the illustration on page 13 of ANC-IFR INSTRUMENT FLIGHT RULE TRAFFIC so that the holding pattern indicates lateral separation by following the N edge of the range course W-bound and the S edge E-bound.

(b) Correct Altoona, Pa., Instrument Approach Chart, AL-100, dated April 2, 1946, by deleting runway contact lights citation, relocating wind tee to NE corner of rnwy intersection, and changing elevation to 1495 feet; Meridian Instrument Approach Chart, by changing the elevation of Key Field, Meridian, Miss., to 292 feet

(c) Correct Flight Information Manual, Vol. 1, No. 1, dated July 1, 1946, page 4, by changing under 910 kcs. "KAAL", Salt Lake City, Utah, to "KALL". Page 11, by changing under Salt Lake City "KAAL" to "KALL". The height of tower for the above station is 278 feet, hours of operation are 0600-2400.

(d) Correct Albuquerque Sectional Aeronautical Chart, by showing Site 32, El Paso-Pueblo Airway as having a beacon without course lights. Orlando Sectional Aeronautical Chart, dated August 6, 1946, by changing bearing on N course of Tampa radio

range to 355°-175°. Birmingham Sectional Aero. Chart, by changing the elevation of Key Field, Meridian, Miss., to 292 feet.

(e) Correct T.O. 08-15-1, dated Aug. 15, 1946, page 66, by showing fueling for Victorville AAF, Calif., as "A only", and page 68, by showing the hours of operation of control tower as continuous.

(f) Correct WAC 408, by changing the elevation of Key Field, Meridian, Miss., to 282 feet.

WEATHER REPORTING SERVICE

Weather Reporting Station	Type of Station	Lat. Long.	Elev.	Effective Date
Brunswick, Me.	Hourly Closed			
Tillamook, Ore. (NAS)	Hourly Closed			
Waterman, Ill.	Hourly Closed			8-31-46
Parkersburg, W. Va. (Wood County Airport)	Supple. Wea. Opened	N39°21' W81°26'	855'	
Cortez, Colo., Airport	Supple.Wea. Opened	N37°19' W108°38'	6000'	
Monte Vista, Colo., Arpt.	Supple.Wea. Opened	N37°35' W106°13'	7710'	

TELETYPE NOTAMS: Throughout the year climatic conditions (snow storms, floods, etc.) render many fields temporarily unusable or unsafe. In addition, there are intermittent maintenance operations in progress on many fields. Radio facilities suffer temporary power failures or course misalignments, and lighting facilities are temporarily inoperative. Because these temporary conditions cannot be given immediate coverage in the "Airman's Guide", full cognizance must be taken of Teletype Notam service which gives the desired coverage on any facility or field at which teletype transmitting stations are based. Cross-country pilots, accordingly, should consult these Teletype Notams for latest available data on air navigation aids. These teletype notams are posted in CAA Communications Stations and in all Army Air Field and Naval Air Station Operations Offices having teletype drops.

N.B.

AIRPORT TRAFFIC CONTROL PROCEDURES: (a) Planes with two-way radio should establish communication with control tower when 15 miles from the airport of destination and before taxiing or taking off.

(b) Planes without receivers, when approaching tower-controlled fields and before taxiing and taking off, should be on the alert for and be guided by light gun signals. (See AAF Regulation 100-4, dated March 4, 1944, and CAR Digest or Manual 60).

(c) Flashing tetrahedron lights, as well as the daylight operation of rotating beacons coupled with flashing red code lights, indicate suspension of CFR traffic.

AIR NAVIGATION AID DATA

All radio facilities except towers are CAA facilities unless otherwise cited. All towers are listed by operating agency. All range bearings are magnetic inbearings. All fan markers and station location markers operate on 75 mcs. All radio facilities operate continuously unless otherwise specified.

LEGEND

** - New or revised airport, danger areas, or miscellanous data to be inscribed on charts or added to records.

★ - New or revised radio data to be inscribed on charts or added to records.

ALABAMA

ANNISTON AAF-Temp inactive - no facs. (See Special Notice re use).

BIRMINGHAM ARPT-Closed to civil. acft not equipped with operating rcvr. No landings on sodded areas. Ctn ngts or under IFR, plant S of fld has long taxi and parking strips resembling rnwys. No svcg mil acft 2200 to 0600. No maintenance. Tetrahedron uncontrollable. (9-6)

BROOKLEY AAF (MOBILE)-Soft - use rnwys, taxi strips only. No 91 oct.Rnwy 14-32 closed. (9-26)

CAMP SIBERT AAF (ATTALLA)-CLOSED TO ALL ACFT.

CENTRE ARPT-N/S strip not mntnd. E/W strip rough. Tlfo lines E end. (4-9)

CHASTAIN'S ARPT (PRICHARD)-E/W strip under const, marked. (7-22)

COLUMBIANA ARPT-NE/SW strip unsafe High grass S 500' N/S strip. (4-9)

CRAIG FLD (SELMA)-Twr obst lgts inop. No maintenance or RON facs. Bndry and N/S rnwy lgts inop. (9-9)

DANNELLY FLD (MONTGOMERY)-NE taxi strip closed (parked acft). (8-12)

GREENVILLE ARPT-SITE 24,NEW ORLEANS-ATLANTA-E 400' E/W rnwy unsafe (high grass). (9-2)

GUNTER FIELD (MONTGOMERY)-RADIO: Army twr temp suspended. (5-16)
FLD: Temp inactive-no facs. (See Special Notice re use). Use rnwys only. Sod areas adj rnwys and taxi strips soft.

HARTSELLE ARPT-N 900' W side avail. emerg landings, bal fld unusable. (3-30)

MAXWELL FLD (MONTGOMERY)-At ngt or under IFR conditions large depot 1 mi S looks like arpt and lgts give impression of parallel rnwys. NE/SW, NW/SE rnwys closed (const). Equip. on fld. (6-18)

MIDDLETON FLD (EVERGREEN)-Rnwy lgts inop. (7-18)

MUSCLE SHOALS ARPT-Fuel avail. civil. acft only. (8-1)

NAPIER FLD (DOTHAN)-Avail. civil. acft in emerg only. (8-6)

OZARK AAF-Temp inactive-no facs. (See Special Notice re use).

PRYOR FLD (DECATUR)-Mun. opers and acft sto depot. No collect calls or telegrams accepted by sto depot. (6-22)

TUSCALOOSA ARPT, SITE 59, FV-AG-Rnwys not lgtd although N bndry and parallel obst lgts may look like rnwy lgts. (9-16)

TUSKEGEE AAF-RADIO: Army range and twr will be discont Oct.5.(9-24). FLD: Temp inactive-no facs.(See Special Notice re use). N/S, E/W rnwys closed at N-S/E-W intersections; open for taxiing and emerg only. (7-18)

TUSKEGEE INSTITUTE FLD NO. 1 (TUSKEGEE)-Soft in spots, mrkd. (1-21)

ARIZONA

ANDERSON MESA, BEACON SITE 44, LA-AQ-Soon, site consisting of 24" rot. bcn and course lgts atop 51' twr flash. char "4" (. . . .) will be comm 36.2 mi SE Flagstaff, lat 34-56-50, long. 111-17-50. Elev 7100 . (9-11)

AQUARIUS CLIFFS, BEACON SITE 32, LA-AQ-Soon, bcn site consisting of 24" rot.bcn and course lgts atop 51' twr flash. char."2" (. . -) will be comm 68.4 mi SSE Kingman, lat 34-47-25, long. 113-25-00. Elev 5612' (9-4)

**ASHFORK INT, SITE 36A, LA-AQ-Oct. 1, 24" bcn replaced with a 36" double end bcn flash, alternate clear and green. (10-1) Rough. (9-19)

COCHISE-RADIO: NW course will be realigned to 164° soon.Range, bdcast inop.-disregard spurious signals. (9-17)

COCHISE INT, SITE T-3, PH-EO-Rough.Tall grass in spots on fld.Ctn when landing and taxiing. (9-20)

CONNELL MOUNTAIN BEACON SITE 34, LA-AQ-Soon, site consisting of 24" rot.bcn and course lgts flash. char "4" (. . . .) will be comm 49 mi NNW of Prescott, lat 34-45-40, long. 112-57-30. Elev. 6425'. (9-4)
COOLIDGE AAF-Temp inactive - no facs.(See Special Notice re use).
DAVIS-MONTHAN FLD (TUCSON)-E fld closed; acft parked on rnwys. Ceilometer projector using very strong blinding lgt W end of fld half way between ends of NW/SE, E/W rnwys. (9-29)
DEEP LAKE INT, SITE 54A, LA-AQ-E end E/W, N end N/S strips rough with soft areas due wind erosion, soft sand, mrkd. (7-12)
DOUGLAS AAF-Temp inactive-no facs. (See Special Notice re use).
ECHEVERRIA FLD (WICKENBURG)-Use rnwys only (parked acft).
ERNEST A. LOVE ARPT. (PRESCOTT)-Use wind tee SW of apron. (9-20)
FALCON FLD (MESA)-Closed to trans acft-no facs)(9-19)
FREDONIA ARPT-High weeds, cattle on strips. (9-3)
GILA BEND AAF-Tetrahedron inop. (8-26)
GRANITE PEAK,BEACON SITE 29, LA-AQ-Soon, site consisting of 24" rot. bcn. and course lgt flash. char "9" (- - .) will be comm 20.5 mi SSE Yucca, lat 34-49-00, long. 113-52-15. Elev. 6032'. (9-4)
HOLBROOK MUN ARPT (HOLBROOK)-CLOSED (rough) (6-13)
INTERNATIONAL ARPT (DOUGLAS)-Temp closed (const) (6-17)
KINGMAN ARPT-No inst flights cleared to Kingman. No obst lgts atop Haulpai Mt. (8500' MSL) 11 mi S. Rnwy lgts Rnwy 17-35 inop. (7-12)
LITCHFIELD PARK NAF-No landings permitted later than one half hr before sunset without prior approval from CO. (9-19)
LUKE FLD (PHOENIX)-Traffic direction indicator on N hangar. (1-11)
MARANA AAF-CLOSED. (9-9)
METEOR CRATER, BEACON SITE 46, LA-AQ-Soon, site consisting of 36" double end bcn flash. alternate clear and red will be comm 25 mi SW Winslow, lat.34-59-22, long. 111-02-28. Elev. 5634'. (9-11)
NOGALES INTERNATIONAL ARPT (NOGALES)-Use only NE/SW rnwy and paved taxiways, bal fld soft and rough due to heavy rains and erosion. (4-29)
PARADISE ARPT (GLENDALE)-Const. (6-3)
PHOENIX-Inst train. on Phoenix Range between 5500' and 9500'.
RYAN FLD (TUCSON)-Use rnwys only, bal fld soft in wet weather, parked acft. Washes N edge. (8-8)
SELIGMAN INT, SITE 32, LA-AQ-On or about Oct 16, all facs will be discont. Fld will no longer be maintained. (9-25). Rough. (4-24)
SKY HARBOR ARPT (PHOENIX)-Major const until approx Oct. 1, Equip. 750' N and S of center line of E/W rnwy, E of intersection of E/W and N/S rnwys, E end E/W rnwy. Land in dirt area S of E/W rnwy when landing to the W. All acft remain W of intersection of N/S, E/W rnwys, also stay S of a point 750' S of intersection of E/W, N/S rnwys. N/S rnwy closed-E/W rnwy closed intmtly during const. Closing of rnwys will be indicated by large white X on rnwy ends. Const work in ramp area extending just E of main hangar to just W of Terminal Bldg. (9-11)
THUNDERBIRD ARPT NO. 2 (PHOENIX)-Use strips only (parked acft).
TUCSON-RADIO: Range flight-checked Sept. 27, courses correctly aligned.
TUCSON ARPT-Avail. civil. acft days only. (2-3)
★WILLIAMS FLD (CHANDLER)-RADIO: Army range decomm. Use for train. only. FLD: Use rnwys only.
WINONA INT, SITE 43A, LA-AQ-On or about Oct 16, all facs will be discont. Fld will no longer be maintained. (9-25)
WINSLOW ARPT-E end E/W taxi strip beyond first tie-in closed. (7-27).
YUCCA, BEACON SITE 28, LA-AQ-Soon, site consisting of 24" rot, bcn and course lgts flash. char "8" (- . . .) will be comm 6 mi S Yucca, lat 34-47-00, long. 114-07-23. Elev 1798'. (9-4)
YUMA AAF-Temp inactive-No facs. (See Special Notice re use). Adj bcn changed from green to clear. Bndry lgts in emerg only. (3-15)

ADAMS FLD (LITTLE ROCK)-Use rnwys only - shoulders soft.Equip. on fld.(8-7)
EL DORADO-RADIO: VHF range will be comm soon at lat 33-17-00, long. 92-46-00. Freq. 109.1 mcs, ident. "LD" (. - . . - . .) Visual courses: 45°, 225°; Aural courses: 135°, 315°, courses mag and tqwards sta. Mag var: 7° E. Stn class: VARW. (8-14)
EL DORADO ARPT-GOODWIN FLD (EL DORADO)-Lgts avail. emerg only. (9-17)
FORT SMITH ARPT-Acft over 28,000 lbs use in emerg only. Use rnwys only-taxi strip and ramp being repaired. (7-8)
GRIDER FLD (PINE BLUFF)-Use strips only (parked acft). Closed ngts. (6-7)
HELENA-Two unlgtd 405' twrs crossing Miss.River at S edge city. (7-20).
JONESBORO ARPT-Use rnwys only. (8-16)
LITTLE ROCK-RADIO: 116.1 mc transmitter and receiver temp inop. (9-23)
LUXORA INT, SITE 39, NO-LS-30' unlgtd pole line being erected S end N/S rnwy. (9-27)
McGHEE ARPT-Cattle on fld intmtly. (9-6)
McLAUGHLIN ARPT (HOT SPRINGS)-RADIO: Mobile Army twr transmits on 4420 kcs and receives on 4495 kcs only. (9-11) FLD: Use ctn when landing and taking off. Crash and fire fighting equip. avail, 0800 to 1600 Mon thru Fri. only. (9-23)
PINE BLUFF-RADIO: VHF range will be comm soon at lat 34-14-18, long. 91-55-36 Freq. 108.7 mcs. Ident. "PL". Visual courses: 27°, 207°; Aural courses: 117° 297°. Stn class: VARW. Mag var. 7° E. (8-18). This corrects "Airgi", Vol. 1 No. 11.
THOMPSON-ROBBINS FLD (HELENA)-Use rnwys only (parked acft).
WALNUT RIDGE ARPT-Acft parked all areas fld and ramp. Use rnwys only. Equip. on fld. Closed 1730 to 0800. (4-4)

ALAMEDA NAS-Maintain high approach on Rnwys 26L and 22. Heavy acft parked these areas. 175' unlgtd cranes 2000' from NE corner fld-ctn ngts and during low visibility. Lgtd dredge and pipe extending to shore operating 1/2 mi. S of lagoon,in seadrome. Equip. adj to and on rnwys. Fld on positive control. (8-16)
AMERICAN LEGION ARPT (SALINAS)-Obsts on E/W strip. (3-16)
★ARCATA-RADIO: MH fac operated by UAL replaced by H fac lctd 310°, .15 mi from SE end Rnwy 31. See page 20.
BELMONT ARPT-Avail at pilots risk (equip). NW end Rnwy 28 closed. (4-23)
BRAWLEY ARPT-Holes in extreme NW corner fld. (3-20)
BROWN FLD NAAS (OTAY)-Use in emerg only (caretaker status-no facs).
BURBANK-RADIO: Intermittent interference from Navy transmissions on adj. channel of 245 kcs. (5-23)
BURBANK-LOCKHEED AIR TERMINAL-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STA. Right traffic use Rnwys 7, 15; left traffic use Rnwys 25,33. Approach lgts Rnwy 7 changed to red. Lgts on approach to Rnwy 7 partially obstructed by trees. 2-way radio required all acft. (8-2)
CAL AERO ARPT (ONTARIO)-Use rnwys only (parked acft).
*CAMBRIA ARPT-Lat 35-33-30, long. 121-05-15. See page 49.
CANNON FLD (FRESNO)-No take-offs to SSE. Traffic pattern to the E. (7-24)
★CASTAIC-RADIO: FM comm Sept 25 at lat 34-28-45, long. 118-37-15. See pages 81, 137. Not flight checked.
CATES, BEACON SITE 235 MI. BLINKER, SP-SA-Beacon inop. (2-17)
CLEAR LAKE SEAPLANE BASE-Avail. in emerg. only. (6-11)
CORCORAN-135' unlgtd twr being const adj Santa Fe RR, downtown Corcoran. Upon completion will be 148' high and lgtd. (2-24)
COTATI OLF-Crash truck avail. at Santa Rosa NAAS upon req. (6-11)
CROWS LANDING NAAS-Use in emerg only (caretaker status-no facs).
DESERT CENTER INT, SITE 17, LA-PH-E/W strip emerg.use only. (9-19)
DONNER SUMMIT-RADIO: Excessive interference with Army range at Mather Fld, Sacramento, Calif. NW course displaced 4° W, bear. 134°, SE course dis-

CALIFORNIA-Continued

placed 60 E, bear. 312°. (5-29)
**DUNSMUIR INT, SITE 25B, SF-SA-Name changed to Dunsmuir Arpt-Site 25B, SF-SA. See page 20.
EL CENTRO NAS-Lgts E/W rnwy inop. Avail. 0700 to 1800. Other hrs on 30 min prior notice. Service rnwy will be lgtd for emerg use. (6-24)
EL TORO MCAS-Fld carrier landing practice Rnwy 25L. Trans acft use Rnwy 25R when practice in progress. Rnwy tests. Fld on positive control. (5-7)
**ESTRELLA ARPT-Will hereafter be carried under Paso Robles. Correct letn: lat. 35-40, long. 120-38. See page 49.
★FAIRFIELD-SUISUN AAF (FAIRFIELD)-RADIO: Army twr now gds 3105,4495,6210, 4220 kcs cont. GCA sys is avail. from 1000 to 2200 weekdays and from 1000 to 1800 Sat, Sun. (9-30). These data rcvd too late for inclusion in "Air Navigation Radio Aids". Army ILS sys (SCS-51) temp inop. Army range unreliable, use for homing only. (9-30). FLD: First 1000' Rnwy 25, new Rnwy 21, closed. (8-22)
**GARDENA ARPT-ABANDONED. (8-24)
GARY FLD (BLYTHE)-Use rnwys only (parked acft).
GRAND CENTRAL ARPT (GLENDALE)-CLOSED TO ALL ACFT IN EXCESS OF 35,000 LBS. Parking area pitted, mrkd. W end Rnwy 12-30 being shortened 1000'. (6-1)
HAMILTON FLD (SAN RAFAEL)-Extension to Rnwy 12 closed except in emerg. (6-4)
HAMMER FLD (FRESNO)-Temp inactive-no facs.(See Special Notice re use).
HAWTHORNE ARPT-NORTHROP FLD (HAWTHORNE)-CLOSED EXCEPT ON OFF. BUS. Use Los Angeles Arpt.
**HAYWARD ARPT-Bcn, 24" rot, range, flood,obst, portable rnwy lgts. See page 49
HUMBOLDT COUNTY ARPT (EUREKA)-Closed to trans acft (const). (7-6)
INYOKERN NAF-HARVEY FLD (INYOKERN)-Use in emerg only (caretaker status-no facs)(8-14)
KERN COUNTY ARPT (BAKERSFIELD)-Unlgtd 92' pwr line 1/2 mi N of bndry.(7-3)
LINDBERGH FLD (SAN DIEGO)-Army temp inactive-civil. facs. Acft departing for or arriving from Mexico land at Lindbergh Fld for customs clearance. Closed to acft without 2-way radio unless prior approval rcvd from Arpt Manager. 30' crane SW end Rnwy 31. (8-21)
LIVERMORE NAS-Only Rnwys 3-21, 7-25 avail. Only Rnwy 7-25 will be lgtd ngts. Flood lgt truck used on Rnwy 3-21 upon req. Closed Mon and Tues every week except in emerg. (8-14)
LIVERMORE OLF-Obsts in SW corner fld. (2-4)
LOCKHEED AIR TERMINAL-See Burbank.
LONG BEACH ARPT-RADIO: AACS, ground to air stn will be discont soon. (9-18) FLD: Obst lgts stop 165' twr Radio Stn KVOE 15 mi ESE (107°) true inop. No 91 oct mil acft. Ltd svcg. No maintenance. (9-30)
LOS ALAMITOS NAAS-Closed 1730 to 0800 except in emerg. Rnwy 22L closed. (9-1)
LOS ANGELES-SPECIAL NOTICE-All acft requested to avoid Hollywood Bowl Area from 2000 to 2300 daily. (7-26)
LOS ANGELES-RADIO: Soon, VHF range will be comm at lat 33-56-35, long. 118-25-49. Freq. 109.1 mcs, ident. "LA" (. - . . . -) Visual courses: 96°, 276°; Aural courses: 6°, 186°. Bear. and dist, stn to Los Angeles Arpt: 91°, 2 mi: Mag var. 16° E. Stn class will be: VARW. (9-10)
LOS ANGELES ARPT-MINES FLD (LOS ANGELES)-Unlgtd oil derricks on approach to Rnwy 34. Rot. bcn unlgtd days. E/W paved strips S side fld avail taxiing only. N side fld under const. Equip. on fld, N edge Rnwy 7L-25R. All landings, take-offs and taxiing restricted to paved areas. Rnwys 11-29, 4-22 closed. Army temp inactive-civil.facs. Trans mil acft use Van Nuys Metropolitan Arpt. Obst lgts stop Army twr SW corner fld inop. (6-28)
LOS ANGELES-LONG BEACH HARBOR EMERGENCY SEAPLANE LANDING AREA-May not be avail on short notice due to congestion in anchorage area. Two hours advance notice should be given if possible. (7-1)
MARCH FIELD (RIVERSIDE)-RADIO: Army (CAA type) ILS inop. (reletn)(5-21)

CALIFORNIA-Continued

MATHER FIELD (SACRAMENTO)-RADIO: Excessive interference with Donner Summit Radio. Army ILS (SCS-51) temp inop. (7-25). FLD: Use rnwys only. Mat unserviceable. (3-18)
McCLELLAN FLD (SACRAMENTO)-Rnwy 4-22 closed (parked acft). Equip. adj all rnwys. Shoulders, unsurfaced areas unsafe. (4-24)
MERCED MUN. ARPT-Rnwys 24 and 30 closed. Land only on N side and parallel to Rnwy 30. (9-28)
MINTER FLD (BAKERSFIELD)-Temp inactive-no facs.(See Special Notice re use).
MIRAMAR MCAS (SAN DIEGO)-Rnwy 10-28 under const. Rnwy 6-24 avail. Fld on positive control. All acft in San Diego Area use ctn while approaching Miramar MCAS (3-19)
MOFFETT NAS-LTA (MOUNTAIN VIEW)-Equip, trenches adj NW/SE rnwy. Ctn landing, taxiing, taking off. Equip. on fld. Fld on positive control. Multi-engine acft above JRB class use Rnwy 14L-32R only, except in emerg. (7-23)
MOJAVE NAS-Equip. on Rnwy 25. Fld on positive control. (8-18)
MUROC AAF-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN. Ltd within a danger area. 50' equip near W end Rnwy 6-24. No 91 oct. No facs 1900 to 0700 or Suns. (5-16)
NEEDLES-RADIO: 116.1 mc transmitter and receiver temp inop. (9-1)
NEWHALL-RADIO: About Oct 6, range and voice fac will be shut down for approx 1 wk for conversion to class SBMRL-VDT fac. (9-24)
OAKLAND-RADIO: 116.1 mc transmitter and receiver temp inop. (9-13)
OAKLAND ARPT-Naval acft avoid fld except on off. bus. Closed to civil. acft except on authority from Arpt Supt. Rock surface area between E and W taxiway and Rnwy 27R avail. lgt acft. Take-off from center of area, adhere to instructions issued by twr. Taxiway leading from Rnwy 33 to ramp at Navy Terminal closed. Equip. on grass area W of Rnwy 24 ngts. Area under const, mrkd. No gas or maintenance facs avail. 1800 to 0800 except in emerg. Ltd gas, maintenance facs 0800 to 1800. No Army opers or svcg avail. 2300 to 0700. Army facs to be discont in near future. Rnwy 6-24 closed. (9-26)
O'CONNELL BROTHERS ARPT (BRAWLEY)-E/W strip being extended to 2400'. (7-21)
★** ONTARIO ARPT-RADIO: Mun. twr comm. Sept. 17. See page 137. FLD: Bcn,range, bndry, semi-perm. rnwy lgts. (9-17). See page 137.
OROVILLE ARPT-B-2 port. lgts inop. (7-26)
**OXNARD FLIGHT STRIP (OXNARD)-Correct letn: lat 34-13,long.119-05.See page 49.
PALM SPRINGS AAF-Temp inactive-no facs.(See Special Notice re use). NW/SE rnwy and tetrahedron lgts, rot, bcn avail. (5-17)
PASO ROBLES-RADIO: On or about Oct 15, VHF range will be comm at lat 35-40-35, long. 120-39-30. Freq. 108.7 mcs. Visual courses: 145°,325°; Aural courses: 55°, 235°. (9-27)
RAMONA ARPT-Hump in center of strip. Acft at one end of strip cannot see acft at other end. (7-24)
REAM NAAS (SAN YSIDRO)-Equip. on rnwys. Fld on positive control. (7-22)
RED BLUFF-RADIO: 116.1 mc transmitter and receiver temp inop. (9-27). These data received too late for caution symbol.
RYAN FLD (HEMET)-N side matted area rough. (5-2)
SACRAMENTO-RADIO: Courses aligned by ground check only. (9-26)
SACRAMENTO ARPT-Acrobatics, low flying days from flight strip 1000' W of Sacramento Arpt. NW/SE rnwy avail. days. Use rnwys, taxi strips only-shoulders soft. Unsafe small acft-rough. (9-16)
SAN BERNARDINO CO. ARPT (DAGGETT)-Obst lgts stop 50' poles along RR 1000' from end Rnwy 3 inop. Closed to civil acft except in emerg. (7-2)
SAN DIEGO NAS-Traffic circle oval in shape with left turns at 800'. Traffic pattern may be entered at any point at any angle not greater than 45°.Landing will not be made without passing thru Point Love, unless directed by twr. Poipt Love is letd on traffic pattern 1½ mi S of Hotel Del Coronado. Acft crossing air traffic lanes at No. Island must be above 1500'. Acft will not fly over Coronado or Amphibious Train. Base at an alt of less than 1500' Multi-engine acft land on heavy duty rnwys, single-engine acft on asphalt mat. Equip. on heavy duty concrete taxiways. Tetrahedron removed (repairs). Equip. off W end Rnwy 11-29. Mrkd taxiways closed. All acft use ctn. (8-13)

CALIFORNIA-Continued

**SAN FRANCISCO ARPT-Rdo twr, 200' high, obstn lgtd 6 mi SE, lat 37-37, long. 122-17, at entrance of Seal Creek, obst lgtd. (9-11). Two lines unmrkd white spar buoys 8' above water moored in NW/SE direction along edges of shipping channel adj to easterly side of Seaplane Area and extend SE therefrom. Anchored vessels in shipping channel between lines of buoys. Vessels unmrkd and will be lgtd only as required. Avoid rnwy, taxiway shoulders. Turf area closed, unmrkd hasards. Use rnwys, taxiways. Rnwy 14-32 perm closed. (9-30)

SAN FRANCISCO BAY-Rnwy marker lgts and buoys in seaplane landing area N of San Francisco-Oakland Bay Bridge between Treasure Island and the mainland have been temp rmvd. (2-6)

**SAN LUIS OBISPO ARPT-Bcn, 24" rot, range, ctc, strip, obst lgts. See page 49.

SAN MATEO ARPT-Const. Avail. lgt acft only. (4-29)

SAN NICOLAS ISLAND NAAS-Use in emerg only (caretaker status-no facs)

SANTA BARBARA-RADIO: On or about Oct 15, VHF range will be comm at lat 34-25-40, long. 119-52-26. Freq. 108.3 mcs. Ident. "OT". Visual courses: 96°, 276°; aural courses: 6°, 186°. (9-27)

SANTA MARIA AAF-Stay clear rnwy, taxiway sides. E/W rnwy closed. Temp inactive-no facs. (See Special Notice re use).

SANTA MONICA ARPT-CLOVER FLD (SANTA MONICA)-Avail. trans acft with 2-way radio. Closed ngts and to all student pilots. (8-10)

SANTA ROSA NAAS-Equip. along rnwys. E/W rnwy closed. (6-11)

SHERMAN FLD (WALNUT CREEK)-Surplus Acft Sales Center-parked acft.

**STOCKTON FLD-Open to civil acft. Bcn, rnwy, bndry, obst lgts. (8-23). See page 48. Rnwy 4-22 closed. At ngt or under IFR large depot 6-1/2 mi S looks like arpt, lgts resemble parallel rnwys. Army temp inactive-civil. facs. (6-24)

SWEETWATER LANDING STRIP-Arrangements for using this fld made thru Opers Officer NAAS Brown Fld. No communications at landing strip. (5-13)

TERMINAL ISLAND NAAS (SAN PEDRO)-Trans acft not cleared to fld after sunset. (9-4)

TRONA-RADIO: Receiving watches, voice fac and teletype service operating from 0500 to 2400.

TRONA INT, SITE 13, RV-ND-Soon all lgts will be discont. Fld will be avail. days only. (8-3)

TULARE LAKE SEAPLANE BASE-CLOSED (water level 2'). (7-17)

**VAN NUYS METROPOLITAN ARPT-Navy opers removed. (9-11) E/W rnwy closed. Rot. and flash. bcn inop. Ltd facs. Avail. 0700 to 1900 temp. (5-29)

VENTURA CO. ARPT (OXNARD)-Bcn, bndry, obst lgts inop. Flare pots avail. ngts in emerg or by prior arrangement. (5-7)

VERNALIS FLD-CLOSED (equip., obsts on rnwys, aprons). (8-15)

VICTORVILLE AAF-Use Rnwys 16L-34R, 7R-25L only. (7-3)

VULTEE ARPT (DOWNEY)-Rnwys avail. days only when on off. bus. (9-16)

COLORADO

ALAMOSA ARPT-CLOSED (rnwys under const, fld lgts and bcn inop). (9-30). These data revd too late for danger symbol.

BUCKLEY FLD (DENVER)-Temp inactive-no facs. (See Special Notice re use).

DENVER-All acft observe bombing danger area approx 12 mi ESE within the following bndry: N by lat 39-41; S by lat 39-35; W by long. 104-45; E by long. 104-26. (8-15)

**ESTES PARK ARPT-Closed until June 1947. (9-12). Info rvcd too late for inclusion on data page.

FORT COLLINS ARPT, SITE 5, DV-LR-30' unlgtd pwr line being const 200' S of N/S rnwy. (9-29)

LA JUNTA AAF-Temp inactive-no facs. (See Special Notice re use).

LOWRY FLD (DENVER)-RADIO: AACS, ground to air stn temp suspended. (8-19). FLD: Ltd parking and quarters. (9-25)

COLORADO-Continued

MONTE VISTA ARPT-CLOSED (const). (8-8)

PIKES VALLEY ARPT (COLORADO SPRINGS)-E/W rnwy avail. between markers only. New N/S rnwy being const W of present N/S rnwy. All rnwys being widened to 300'. Heavy const equip. on fld days. Use rnwys only. (7-5)

PUEBLO-Demolition being conducted thru Oct 20 within the following described area: bounded on the N by lat 38-17-28; S by lat 38-16-19; W by long. 104-18-38; E by long. 104-17-40.

PUEBLO ARPT-Rot. bcn atop hangar when lgtd indicates fld closed except to scheduled air-carrier acft and shall be lgtd only when air-carriers are approaching fld or taking off. Capt of air-carrier acft shall report his arvl time not less than five minutes before approaching fld. Air-carriers taxi on oiled rnwys only. (9-13)

PUEBLO AAB-Temp inactive-no facs. (See Special Notice re use).

RIFLE ARPT-Strips under const. In emerg use the extreme N side of the E/W strip. Grade stakes on strip. (9-11)

ROYAL GORGE ARPT (CANNON CITY)-Do not land to the S (Wire lines). (6-11)

RUSTON FLD (DENVER)-Const. Strips soft during wet weather. (9-20)

RUTLEDGE FLD (DU PONT)-Surplus Acft Sales Center-parked acft.

SKY RANCH ARPT (DENVER)-RADIO: Municipal twr temp inop. (4-1). FLD: Right traffic Rnwys 26, 30, 36; left traffic Rnwys 8, 12, 18. Traffic controlled by manually operated tetrahedron. Avail. CFR oper days only. (3-27)

STAPLETON AIRFLD-DENVER ARPT (Denver)-Ltd svcg facs. (5-25)

TRINIDAD ARPT-Avail. lgt acft only. Hangar being constructed N end fld adj center of fence line. Equip. on fld. (7-15)

WALKER FLD (GRAND JUNCTION)-RADIO: CAA ILS loclr ident temp inop. (9-14)

CONNECTICUT

BRAINARD FLD (HARTFORD)-Equip. on fld intmtly. Turf closed to heavy acft (soft). 300' bldg under const 1-1/2 mi NW of fld bndry, close to NW leg Hartford Range. Floodlgts N end N/S rnwy inop. 75' lgtd pile driver moored in Conn. River 700' S of N/S and NW/SE rnwy intersection. (7-24)

BRIDGEPORT ARPT-Use rnwys only. (8-2)

BROOKFIELD ARPT-Open only to planes grossing less than 2000 lbs and closed to trans student pilots. (6-10)

HARTFORD-RADIO: Auto. range monitor. sys inop. (9-30)

NEW HAVEN ARPT-Avail. days only. Use rnwys only. (12-4)

SIMSBURY ARPT-Turf soft. Washouts E end N/W rnwy. (5-21)

DELAWARE

BELLANCA FLD (NEW CASTLE)-Use rnwy only. Sod strips under const. (6-13)

DOVER AAF-Temp inactive-no facs. (See Special Notice re use).

**NEW CASTLE CO. ARPT (WILMINGTON)-Bcn, ctc, obst lgts. (9-18). See page 76. Sod fld within bndrys of rnwys avail. lgt acft. (9-18)

DISTRICT OF COLUMBIA

SPECIAL NOTICE-TELEVISION TWR 730' ASL ERECTED 6.2 MI NW (302°) OF WASHINGTON NATIONAL AIRPORT, LAT 38-53-46, LONG. 77-08-05. (3-22)

ANACOSTIA NAS (WASHINGTON)-Avail. 0700 to sunset. Avail. to transport traffic after sunset upon receipt of two hrs prior req of ETA. Boom const masts 100 to 150' high lctd 600 to 800' N of Rnwy 3-21, mrkd. (7-12)

BOLLING FLD (WASHINGTON)-Rnwys 10-28, 14-32 closed. Rnwy 17-35 closed to acft when weather conditions below ctc flight minimums. No 91 oct. (4-29)

WASHINGTON-RADIO: Range flight-checked Sept 26, courses correctly aligned.

**WASHINGTON NATIONAL ARPT (WASHINGTON)-RADIO: CAA ILS shut down until approx Oct 9. (9-23) FLD: 10' hi glide path house lctd 400' E and 900' N of S end N/S rnwy, obst lgtd. (9-21) NAVY: Closed to Navy acft except MATS. Use Anacostia NAS. In special instances, all of which will be cleared by Anacostia Twr, Washington National Arpt will be avail. to Navy planes. ARMY: All previous instruction re use rescinded and following substituted Closed to trans Army acft except those of ATC, those having off. bus. at

DISTRICT OF COLUMBIA-Continued

fld and those carrying VIP. Acft carrying VIP will make their stop as brief as is consistent with mission to be performed and in no case RON. Bolling Fld or Andrews Fld will be used for all other Army flights except in emerg. Army acft landing this fld should taxi to new ATC Terminal Bldg N of Admin Bldg. GENERAL: Closed to acft without radio. Stay on paved areas-edges soft. Excavation, equip. along taxiways 1,2,3,4,5,6; ends of Rnwys 18,21,33, 27,36,3. Use extreme ctn when swinging planes in these areas. Equip. SE portion fld and along apron edge. Ctn taxiing or parking on apron. Flood lgts on Washington Monument 3 mi N inop. (9-23)

FLORIDA

ALBERT WHITTED ARPT (ST. PETERSBURG)-Fld unlgtd-smudge pots avail. on 1 hrs notice. Avoid sodded areas, white sand area E of N/S rnwy extending to water (soft). (1-2)

APALACHICOLA AAF-Temp inactive-no facs. (See Special Notice re use).

AVON PARK AAF-Temp inactive-no facs. (See Special Notice re use).

BANANA RIVER NAS-RADIO: Navy exper. VHF rnwy localizers and various types of ILS operate intermittently day, night. (5-2). FLD: Closed to civil. acft days except on prior permission from CO and in emerg. Closed ngts to civil. acft except in emerg. S end Rnwy 2-20 under const. Taxiway lgts being installed-rnwy lgts being repaired, lgtd on req. Acft of various types oper cont during IFR up to and including 2000' with weather minimums as low as 200' ceiling and 1/8 mi visibility. Air space will include area 20 mi radius from Banana River NAS. Acft will practice inst approaches. (8-23)

BANANA RIVER NAS SEAPLANE BASE-Seaplane landing area avail. W of stn on Banana River. Wind line consisting of seven green lgts on location in center of area ngts when training is scheduled. (7-11)

BOCA RATON AAF-Port. floods avail. on 15 minutes notice. No 91 oct. Stay on rnwys-shoulders soft. (6-27)

BRONSON FLD NAAS (PENSACOLA)-Closed to all trans acft. (8-14)

CECIL NAAS (JACKSONVILLE)-Use in emerg only (caretaker status-no facs).

DALE MABRY FLD (TALLAHASSEE)-RADIO: 251 kcs, 126.15,118.3 mc transmitters and 3105,3117.5,4495,6210 kc,118.3,126.15 mc receivers at CAA twr temp inop. Twr now operating on E side of fld with lgt signals only. (7-10). FLD: S 500' N/S rnwy unusable. 26' bldg erected 900' NW of NW end NW/SE rnwy, lgtd Observe twr E side fld for lgt signals. (8-6)

DREW FLD (TAMPA)-Use rnwys only. Equip. on fld days. Avail. to radio-rcvr-equipped acft tuned to twr freq. (6-28)

EGLIN FLD (VALPARISO)-RADIO: Army ILS sys (SCS-51) temp inop. (7-30). FLD: Acft approaching fld will enter Danger Area on the N or S side of area (25 mi S) along right edge of S leg of Crestview Range. (1)-Acft on CFR will fly 3000' or 500' below the ceiling whichever is lower, until cleared by Eglin Twr. (2)-Acft on IFR will enter at last assigned airways cruising alt and cte Eglin Twr for letdown instructions. Exten const. All rnwy lgts inop. Closed 2000 to 0600. Rnwy 13-31 closed. (7-29)

ELLYSON NAAS-EAST & WEST FLDS (PENSACOLA)-CLOSED TO TRANS ACFT EXCEPT IN EMERG.

FORMAN OLF (FORT LAUDERDALE)-RADIO: Fld control will be by a rnwy portable radio transmitter operating on 142.74 mcs.

FORT LAUDERDALE-Obst lgts atop N twr Radio Stn WCBS 8 mi W inop. (9-23)

FORT LAUDERDALE NAS-Open to all mil acft 0600 to 1500. Closed ngts. (6-15)

**FORT MYERS SEAPLANE BASE-Name changed to Gulf Airways Seaplane Base. (Miami chart). (9-14)

GILBERT FLD (WINTER HAVEN)-Use rnwys only. (12-22)

HIDDEN ACRES ARPT (CLAROONA)-E/W strip avail. lgt acft. (9-15)

HILLSBOROUGH ARPT (TAMPA)-CLOSED. Sinkhole center of E/W rnwy 100' E of intersection center of fld. (5-26)

HONQUIST ARPT (ORLANDO)-S half E/W rnwy avail., unlgtd. (3-20)

FLORIDA-Continued

**JACKSONVILLE ARPT NO. 1-Quarters avail. for trans RON. (9-24). Army facs only. Equip. both ends NE/SW rnwy. Rnwy 18R-36L closed. (9-14)

JACKSONVILLE NAS-Closed to ngt seaplane opers. Trans acft desiring ngt landing facs notify Jacksonville NAS 12 hrs in advance. Equip. on fld days. (9-19)

**JASPER INT, SITE 43. NO-JX-Name changed to Jasper Arpt, Site 43, NO-JX. (9-12). See page 129.

KEY WEST NAS-150' lgtd oil derrick being erected 8 mi ENE (76°) true. (6-7)

KEY WEST NAS SEAPLANE BASE-CLOSED TO TRANS ACFT EXCEPT IN EMERG OR PRIOR ARRANGEMENT. (6-19)

LEE OLF (GREEN COVE SPRINGS)-Closed except in emerg and off. flights. Avail. on 24 hrs advance notice to CO, NAS Jacksonville. (1-26)

LEESBURG AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT UNDER WRITTEN ORDERS OF AN AIR FORCE, COMMAND OR HIGHER AUTHORITY OR IN EMERG. No facs.

MacDILL FLD (TAMPA)-RADIO: Glide path of Army ILS (SCS-51) temp inop. (6-19) Army H fac temp inop. (8-5) FLD: Rnwys 4-22, 13-31, 18-36 avail. (8-12)

MARIANNA ARPT-Equip. on fld days. Hole in Rnwy 8-26, mrkd. Rnwy 4-22 closed. (10-10)

MASTER OLF (MIAMI)-Closed from thirty min after sunset until 0700. (9-5)

MAYPORT CGAS-Closed to all traffic except Air Sea Rescue and emerg landings (caretaker status-no facs). Rnwys 32 and 36 to intersection closed. (9-27)

MEACHAM ARPT (KEY WEST)-Two unlgtd 40' water tanks 400' E of S end Rnwy 4-22. (7-10)

MIAMI INTERNATIONAL ARPT-AAF (MIAMI)-Domestic trans acft taxi to Army Terminal Bldg SE side fld upon arvl and before dptr and register with Ramp Supervisor Scheduled Air-carrier and International acft requiring immigration and customs service use 36th St. Terminal Bldg. Non-scheduled trans acft requiring customs service advise twr before landing. Use rnwys only. Closed to trans Naval acft-use NAS in vcnty. NE/SW rnwy closed. Equip. on fld. Majority of taxiways closed-under const. Unlgtd 28' hangar under const approx 500' S of centerline and 600' E of E end of N E/W rnwy. Obst lgts atop Seaboard R.R. Shops'S bndry N fld inop. Svcg in emerg only and no maintenance trans Army acft 2400 to 0600. (9-14)

MIAMI NAS-Acft remain on N leg Miami Range for distance of 25 mi N of range stn when passing Miami NAS. Stay clear of NW corner fld-fighter train. break up area. Acft practicing touch and go landings ngts. (9-5)

MORRISON FLD (WEST PALM BEACH)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. OR IN EMERG. N/S rnwy avail. days only. Air Rescue Service acft will be cleared into this fld. (8-9)

NORTH POMPANO OLF (POMPANO)-CLOSED (no facs). (1-24)

**ORLANDO AAB-ORLANDO ARPT-Three 333' twrs 7 mi W, obst lgtd. (9-24). Closed to acft exceeding 50,000 lbs except for use alternate destination by scheduled air-carriers. N E/W, W E/S rnwys closed. No 91 oct. No Army opers, weather facs, transportation, svcg or maintenance 1600 to 0730. No Army maintenance Sats, Suns. (9-24) Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon thru Fri. (7-1)

PAGE FLD (FT. MYERS)-NE/SW, NW/SE rnwy lgts, tetrahedron inop. Use E/W rnwy only at ngt. (9-14)

PENSACOLA ARPT-Ext Navy train. throughout area. Join pattern at 500' left turn and circle. Use rnwys only. Taxi to right on nearest avail. taxi strip. Opers and svcg lctd brick hangar. (9-23)

PENSACOLA NAS-CHEVALIER FLD (PENSACOLA)-Avail. days only. Ngts use NAS Corry Fld. Permission may be obtained to land at Saufley or North Whiting Flds. Multi-engine acft requiring rnwys in excess of 2500' land at NAS Corry Fld, bear. 341° NNW. Disposition Delivery acft land at NAAS Ellyson Fld. Pilots desiring to land at Chevalier Fld contact Pensacola Navy Twr before entering traffic pattern. (8-22)

★PETER O. KNIGHT ARPT (TAMPA)-RADIO: Num twr decomm Sept 30. These data rvcd too late for deletion from "ANRA", "Arpt Directory", and "Flight Planning Charts". FLD: Equip. on fld days. Sodded areas unsafe heavy acft. Rnwy lgts avail. on 1 hrs notice between 1900 and sunrise. (5-11)
PINECASTLE AAF-RADIO: Army ILS (SCS-51) temp inop except for lolzr. (7-23) FLD: Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon. thru Fri. (7-1) Fld avail. 0700 to 1700; other hrs on req. Req pilots land at Orlando AAB if not on off. bus. this stn. No 91 oct. (4-22)
RICHMOND NAS-LTA-Use in emerg only (caretaker status-no facs).
RIDDLE FLD (CLEWISTON)-Heavy acft avoid lgt bar and rod steel mat. Twr oper only during scheduled flying. Unsafe areas partially mrkd days, unmrkd ngts. Cloud flying when clouds broken to overcast during daylgt hrs in area bounded by lat 26-27, lat 26-43, long. 80-50, long. 81-27. Use rnwys only. Grass areas flooded most of summer. (7-27)
RUSSELL-RADIO: Navy range temp inop. (10-24)
STENGEL FLD (GAINESVILLE)-Equip. on fld, mrkd. (5-24)
TAYLOR FLD (OCALA)-Use rnwys only. (5-8)
TITUSVILLE-COCOA ARPT (TITUSVILLE)-Hangar under const. (9-10)
VERO BEACH-Blasting of ground structure will be in progress thru Nov 15 on North Island in an area lying between the Atlantic Ocean and Indian River extending 7 mi S from a line due E of Vero Beach. Dangerous to low flying planes. (8-3)
WHITING FLD NAAS-NORTH (MILTON)-Avoid fld area under 2000'. 6" sloping curb at rnwy edges. Tetrahedron indicates rnwy in use and not wind direction. NE/SW rnwy lgts inop. (3-2)

GEORGIA

ALBANY ARPT-Use rnwys only. (7-22)
ATHENS ARPT-Bndry, bcn lgts inop. (8-10)
ATLANTA ARPT-RADIO: Middle marker of CAA ILS located 3600' SE of SE end NW/SE rnwy, keyed with alternate dots and dashes will be comm soon. Outer marker will be relocated 4.5 mi SE of SE end NW/SE rnwy. Lolzr temp inop. (9-19) FLD: Const. equip. on fld intmtly. Use rnwys ngts. Closed to HB and VHB acft. Army temp inactive-civil. facs. Trans army acft use Marietta AAF. Twrs of Radio Stn WSB 12 mi NE being dismantled; lgtd. (8-3)
ATLANTA NAS-Acft on IFR between 2000 and 0700 clear thru A.T.C. and proceed to Atlanta Arpt. Const equip. along rnwys. (5-10)
AUGUSTA-Three 310' twrs, one 420' twr being constructed by Radio Stn WGAC approx 5 mi N Augusta Range Stn, obst lgtd. (7-15)
BOWERS ARPT (BAINBRIDGE)-CLOSED (high weeds). (8-14)
BUSH FLD (AUGUSTA)-WAC planes parked entire fld off rnwys. Use rnwys only. Close flight plans with Bush Twr. (7-1)
CAMP STEWART AAF (HINESVILLE)-Temp inactive-no facs. (See Special Notice re use). Cattle on fld. (12-17)
CRATHAM AAF (SAVANNAH)-Temp inactive-no facs. (See Special Notice re use). Rot. bcn inop. (5-22)
COCHRAN FLD (MACON)-Temp inactive-no facs. (See Special Notice re use). Use rnwys, taxi strips only. (12-5)
COOK CO. ARPT (ADEL)-Lgts inop. (9-23)
DANIEL FLD (AUGUSTA)-RADIO: CAA twr comm Sept 5. Operates 0600 to 2400. Lgt gun oper only. (9-5)
GLYNCO NAF-LTA-RADIO: Navy twr temp closed, operates on call on one hrs notice. FLD: Landing mat being repaired. (6-12)
HINESVILLE ARPT-Equip. on fld and in approach zones intmtly. (2-26)

HUNTER FLD (SAVANNAH)-Sharp incline of approx 20', 370' on approach to Rnwy 23L. 120' lgtd twr between Rnwys 10 and 15 outside outer perimeter. (7-13)
KINGS ARPT (MILLEDGEVILLE)-Soft after rainy weather. (7-22)
LA GRANGE ARPT-Heavy acft use rnwys, taxiways only-grass areas soft. (12-27)
LAWSON FLD (COLUMBUS)-MAKE ALL APPROACHES TO LAWSON FLD W OF CHATTAHOOCHEE RIVER, HIGH TRAJECTORY FIRING E, SE OF LANDING AREA DAY, NGT. Pilots may be required to make cross-wind landings. Use rnwys only. 4 lgtd parachute jumping twrs E of fld; mass parachute jumping from all alts under 1600' scattered thru area 10 mi sq. S of fld. Drainage ditch with unlgtd fence between ends Rnwys 2 and 32. Right hand traffic Rnwys 14, 20, 27; left hand on Rnwys 2, 9, 32. (6-25)
LE TOURNEAU ARPT (TOCCOA)-NNE/SSW strip closed (const). Avail. only with extreme ctn. 1000' extension being added to W end E/W strip. (8-6)
MARIETTA AAF-No 73 oct. Ltd sto. Facs avail. 0800 to 2000. Radio stn WFOM erecting unlgtd 100' twr 2 mi WSW. (9-9)
MOODY FLD (VALDOSTA)-Temp inactive-no facs. (See Special Notice re use). 2 obst lgts atop Radio Stn WGOV inop.
NORTHSIDE ARPT (MOULTRIE)-NE/SW strip closed. (3-26)
ROBINS FLD (WARNER ROBINS)-No 91 oct. (7-17)
ROCKY FORD FLD NO. 1 (VALDOSTA)-CLOSED TO HEAVY ACFT. (7-15)
ST. SIMONS ISLAND NAS-Avail. only to mil acft and scheduled airlines sunrise to sunset. Closed ngts except on prior req. Only 100 oct avail. (8-3)
SOUTHER FLD (AMERICUS)-Use strips only-parked acft.
TURNER FLD (ALBANY)-Use rnwys only. Rnwys 40,9R,14G,15L closed. Temp inactive-no facs. (See Special Notice re use). (8-26)
VADA ARPT (BAINBRIDGE)-CLOSED (cattle on fld). (8-14)
VIDALIA-LYONS AIRFLD (VIDALIA)-Temp inactive-no facs. (See Special Notice re use). Flight plans handled thru Turner Fld. (4-5)

IDAHO

BENNETT FLIGHT STRIP (ANDERSON DAM)-Avail. for emerg use only. (5-7)
BURLEY ARPT-Use rnwys only (rough, vegetation). Soft spots on taxi strips. (7-19)
**COEUR D'ALENE AIR TERMINAL-Two 50' antenna poles erected 100' S of Admin Bldg. (9-26). This info rvcd too late for inclusion on data pages. Two 172' twrs rdo stn KVNI lctd 6 mi S (174°) true, properly obst lgtd. (9-9)
★DUBOIS-RADIO: Sept 21, S course realigned to 332°. Courses ground-checked only.
GOODING ARPT, new-Use rnwys only-sod unsafe (erosion). (9-20)
GOWEN FLD (BOISE)-Army temp inactive-civil. facs. Use rnwys, taxi strips only. shoulders soft. Continuously operated 30 million candle pwr ceilometer 1000' NNW of arpt bcn-avoid looking directly into lgt. (9-13)
IDAHO CO. ARPT (GRANGEVILLE)-NE/SW strip under const. (9-19)
IDAHO FALLS ARPT-Use rnwys for taxiing. When landing and taking off watch for taxiing acft. Equip. in area E/W taxiway days. (8-9)
**MALAD CITY INT, SITE 9, SL-GT-See page 24.
**MONTPELIER ARPT-Lat 42-19-30, long. 111-17-45. See page 24.
MOUNTAIN HOME AAF-Temp inactive-no facs. (See Special Notice re use). N/S rnwy closed. Gravel area W edge approx 20' sq. soft.
POCATELLO ARPT-6' ceilometer projector in center of grass strip running parallel with Rnwy 5-23 and approx 75' S of rnwy at a point 500' W of taxi strip that intercepts Rnwy 29, lgtd. Equip. on fld days. (6-29)
POCATELLO AAF-Temp inactive-no facs. (See Special Notice re use).
PRIEST RIVER MUN. ARPT-NNE/SSW strip under const. (7-1)
REXBURG ARPT-W side N/S strip at N end washed out. (7-26)

ILLINOIS

ASHBURN ARPT (CHICAGO)-Avail. lgt acft under 2000 lbs only. Landing fee for heavier acft $2.00 and up. (7-25)
BEARDSTOWN ARPT-S 400' N/S strip, 300' from end E/W strip and fld soft during heavy rains, mrkd. (7-15)
CHANUTE FLD (RANTOUL)-Ltd parking. (4-25)
CHARLESTON ARPT-Left traffic when wind from N or W; right traffic when wind from S or E. Unsafe heavy acft-soft. NE/SW rnwy closed (const). (9-23)
CHICAGO ARPT-NE/SW rnwy closed, unlgtd (parking area). Closed to trans mil acft except on off. bus. or in emerg. No Army facs. Army acft use Chicago-Orchard Arpt. Closed to trans Navy acft except on off. bus. or acft containing officers of flag rank. Pilots must register in Terminal Bldg on arvl and check out on dptr. Floodlgts avail. on req. Following landing fees in effect to all non-scheduled revenue producing acft: 30 cents per 1000 lbs or fraction thereof of the gross weight of the acft. Minimum charge $2.00 Fee payable at Arpt Supt's Office before take-off. All numerals and letter on Rnwys 13L, 13R lgtd ngts. Hangar under const N side fld just E of NW corner. Ctn when taxiing. Covered ditch adj Rnwys 27L, 31R, mrkd. Ditch on E side Rnwy 36R, mrkd. (9-11)
CHICAGO-HAMMOND ARPT (LANSING)-Surplus Acft Sales Center-parked acft.
CHICAGO-ORCHARD ARPT (CHICAGO)-Closed ngts-no lgts. Ltd svcg and maintenance (9-10)
CYRIL LEBERT ARPT (LEBANON)-Left traffic pattern at 400'. Watch for Scott Fld traffic. (6-22)
GALESBURG ARPT-Crash and fire fighting equip, avail. 0800 to 1600 Mon thru Fri only. (9-23)
GEORGE FLD (LAWRENCEVILLE)-CLOSED (no facs). (5-15)
GLENVIEW NAS-Prior approval required all acft expecting to RON except off. bus. regularly scheduled NATS or NATSFWS flights. Equip. on approaches. Non-radio equipped acft land on mats only. Closed ngts except in emerg or by prior arrangement. (7-8)
INTERSTATE ARPT (DE KALB)-CLOSED. (5-11)
JOLIET ARPT-SITE 22, LS-CG-Emerg fueling and acft svcg avail. 2400 to 0800 on req. (7-18)
MARION ARPT-Ext. train. 8 mi radius. Trans pilots use left hand rectangular 600' traffic pattern. NE/SW rnwy closed. During wet weather use black rnwys only. (9-6)
MOLINE ARPT-75' lgtd mast, 1500' W, 500' S of centerline of E/W rnwy guyed with cables. 30' lgtd gravel plant, 422' due W of SE end NE/SW rnwy. Pwr shovels, high boom near both plants. Equip. NW portion fld days. 20' antenna being erected 1000' S of N end N/S rnwy and 250' E of centerline N/S rnwy, mrkd. (9-23)Radio Stn WQUA erecting 200' twr 2.2 mi NNW. Obst lgtd at top only until completed. (9-1)
PEORIA ARPT-Const equip on fld days. Use rnwys only. Rnwy obsts mrkd. Concrete pads for cone obst lgts 90' from rnwy ends. Yellow flags over coils of cable. Concrete pads along both sides E/W, NE/SW rnwys 25' from rnwy edges. (7-14)
PROSPERI ARPT (TINLEY PARK)-Use rnwys only. (7-5)
**QUINCY ARPT(New)-New fld. Lat 39-56, long. 91-13. (9-24) See page 32.
QUINCY ARPT-Extreme W end E/W, NW end NW/SE strips under const. (7-30)
RUBINKAM ARPT (HARVEY)-Use only area W of trench. (4-26)
ST. CHARLES ARPT-CLOSED. (4-2)
ST. DAVID ARPT-Closed to cross-country acft. No svcg avail. N/S strip closed. New arpt under const 6 mi N. (6-13)
SCHILF FLD (OLNEY)-NW/SE strip soft in wet weather and after thaws. (9-21)
SMITH AVIATION FLD (ST. ELMO)-Use N/S rnwy only. Equip. on fld. (7-31)

ILLINOIS-Continued

SPRINGFIELD ARPT-Fld and strips soft after heavy rains. Unsafe heavy acft when soft. Closed ngts. (7-18)
VANDALIA MUN. ARPT-Use only N/S rnwy after heavy rains. (5-10)
WAUKEGAN ARPT-NW corner NW/SE rnwy, W end E/W rnwy unusable, mrkd. (8-16)
WHITE CO. ARPT (CARMI)-NE/SW strip rough. Low wires S end fld. (7-22)
YORK TOWNSHIP ARPT (LOMBARD)-Equip. on fld. (8-9)

INDIANA

**ACE ARPT (ANDERSON)-New fld. Lat 40-04, long. 85-41. (7-1) See page 69.
ATTERBURY AAF (COLUMBUS)-Temp inactive-no facs.(See Special Notice re use).
AUBURN ARPT-Use strips only. Kerosene lanterns avail. in emerg. (5-14)
BAER FLD (FORT WAYNE)-RADIO: Army ILS (CAA type) temp inop. (9-27) FLD: Temp inactive-no facs. (See Special Notice re use). Antenna pole obst lgts rmvd. poles unlgtd. New poles will be erected 3.5 mi SE, lgtd. (5-1)
**BARGERSVILLE ARPT-New fld. Lat 39-32-30, long. 86-10-30. (7-1) See page 69.
BENDIX FLD (SOUTH BEND)-Army temp inactive-civil. facs. Equip on fld days. N triangle closed. (8-15)
BLOOMINGTON ARPT-Fresh grading soft when wet. (8-7)
**BLUFFTON ARPT-New fld. Lat 40-44-00, long. 85-10-30. (7-1) See page 36.
BRIGHTWOOD ARPT (INDIANAPOLIS)-Fld under const. E/W rnwy closed. Pilots observe tetrahedron for rnwy direction. Taxi on well marked taxi strips and dead rnwys. (9-19)
**BUSH ARPT (JEFFERSONVILLE)-New fld. Lat 38-18-30, long. 85-42-30. (7-1) See page 69.
CHAIN LAKES ARPT (SOUTH BEND)-Avail all acft up to 6000 lbs. Use strips only. (5-23).
*CHARLESTOWN ARPT-New fld. Lat 38-28-49, long. 87-35-56. (9-16) See page 68. 2000' strip under const-usable with ctn. (9-16)
*CHEEVER ARPT (DEMOTTE)-New fld. Lat 41-11-30, long 87-16-00. (7-1) See page 33.
COLUMBUS ARPT-Turn off rnwys onto taxi strips after landing. (9-10)
*CORK FLD (WEST LEBANON)-New fld. Lat 40-16, long. 87-28. (7-1) See page 68.
EVANSVILLE ARPT,old-Use rnwys only. Equip. on fld days. (9-26)
*FARMERS ARPT (GREENFIELD)-New fld. Lat 39-52, long. 85-54. (7-1) See page 69.
**FERGUSON ARPT (RICHLAND)-New fld. Lat 37-56-30, long. 87-09-30. (7-1) See page 68.
FORT WAYNE-RADIO: Sept 26 range and voice fac inop. Fac will be relctd at lat 40-56-20, long. 85-15-00 serving Baer Fld. Freq 251 kcs. Ident "FW" Courses: 51°,146°,231°,326°. Bear. and dist, stn to Baer Fld: 51°, 3.5 mi. Mag. var: 0. About Oct 21 receiving and teletype facs will be decomm and relctd to Baer Fld. (9-17)
**G AND C ARPT (ANDERSON)-New fld. Lat 40-07-00, long 85-41-30. (7-1) See page 69.
**GREENCASTLE ARPT-New fld. Lat 39-34-30, long. 86-44-30. (7-1) See page 69.
**HINES ARPT (LADOGA)-New fld. Lat 39-57½30, long. 86-51-30. (7-1) See page 69.
HULMAN FLD (TERRE HAUTE)-Use rnwys only (erosion). (8-28).
INDIANAPOLIS-RADIO: Ground Controlled Approach Unit being operated by CAA on exper basis at Weir-Cook Municipal Arpt, between the hrs 0800 and 1600 Mon thru Fri. Unit aligned for approach from the SW on Rnwy 4. Transmits on 212 kcs, 126.18 mcs, receives on 3105,4495,3117.5,6210 kcs, 126.18 mcs. Pilot desiring to make practice runs should make arrangements thru Indianapolis twr, Indianapolis Radio or airline ground sta at Indianapolis. All flights must be Cto flight rules prior to starting GCA runs and must remain CFR throughout approach. No run should be made in hooded cockpit unless accompanied by safety pilot. 75 mcs boundary marker using keyed 3000 cycle tone, operating intermittently at SW boundary of arpt. Exper localizer on 108.3 mcs operating intermittently SW end NE/SW rnwy. Exper compass locator at outer marker. Freq 219 kcs. Ident "ID" Exper FM operating occasionally 10 mi SW fld on localizer course, modulation 3100 cycles, keyed "U". Exper radio range operating intermittently at Avon, Ind, 7 mi

NW of arpt on 172 and 194 kcs. (8-9) Sperry exper microwave inst landing lclzr located 900' NE of NE rnwy, microwave glide path lctd adj to the CAA glide path 450' SE of the NE rnwy at SW corner of fld. (9-23)

INDIANAPOLIS ARPT-Heavy acft use rnwys only. Const around N side fld, parking ramp. No crash equip. Mil pilots register with registrar in Admin Bldg Lobby, trans acft at City desk in Terminal Bldg Lobby. Rnwy 18L-36R closed; 1 bldg and 82' mast 400' off centerline near SW end NE/SW rnwy. Tetrahedron being installed in triangle between NE/SW, NW/SE, E/W rnwys.

RIPER OPERS: Approach lgt sys on SW approach lane; bndry lgts SW corner, operating intmtly. 2-1/2' exper rnwy lgtd both sides NE/SW rnwy. Exper flights of all types in all weather conditions. 25' pole outside bndry 500' W of Rnwy 18; 65' twr 10' N CAA hangar; truck and 20' equip. 400' NW end NW/SE rnwy 500' W of rnwy centerline; truck 20' high NE corner at bndry 500' NW of NE/SW rnwy; 10' bldg middle of W bndry; 5 131' twrs 6 mi NW; 27' glide path stn 250' W of N/S rnwy and lclzr stn with 10' screen 700' N of N/S rnwy; 12' trailer 1000' NE of NE/SW rnwy on centerline; trailer adj CAA glide path 400' SE of NW/SE rnwy, all lgtd ngts. 15' unlgtd trailer 800' E of CAA hangar. (9-27)

**JORDAN ARPT (BLOOMINGDALE)-New fld. Lat 39-55-00, long. 87-15-30. (7-1) See page 68.

**KENTLAND ARPT-New fld. Lat 40-48-00, long. 87-20-30. (7-1) See page 33.

**LAKESIDE ARPT (GARY)-New fld. Lat 41-36, long. 87-27. (7-1) See page 140.

**LAPEL ARPT-New fld. Lat 40-04-30, long. 85-50-00. (7-1) See page 69.

**LAWRENCEBURG ARPT-New fld. Lat 39-05, long. 84-52. (7-1) See page 69.

**LISTON ARPT-New fld. Lat 39-53-00, long. 86-31-30. (7-1) See page 69.

MADISON AAP-JEFFERSON PROVING GROUNDS (MADISON)-CLOSED TO ALL ACFT.

**MARTINSVILLE ARPT-New fld. Lat 39-26-00, long. 86-27-30. (7-1) See page 69.

McCOMB ARPT (DECATUR)-Closed when wet. (5-10)

**MECCO ARPT (DANVILLE)-New fld. Lat 39-46, long. 86-32. (7-1) See page 69.

**MEDARYVILLE ARPT-New fld. Lat 41-05-30, long. 86-54-30. (7-1) See page 36.

MICHIGAN CITY ARPT-Use only mrkd strips, taxiways-bal fld unsuitable for landing and taxiing. (7-27)

**MIDWAY ARPT (GOSHEN)-New fld. Lat 41-37, long. 85-55. (7-1) See page 36.

**MOORE ARPT (ZIONSVILLE)-New fld. Lat 40-04-30, long. 86-25-00. (7-1) See page 69.

MORGANTOWN-RADIO: FM on S course of Indianapolis Range will remain in oper on exper basis until Nov 1.

**MOUNT VERNON ARPT-New fld. Lat 37-56-00, long. 87-52-30. (7-1) See page 68.

MUNCIE ARPT-Hangar under const along S bndry. (8-31)

**NOBLESVILLE ARPT-New fld. Lat 40-02, long. 86-00. (7-1) See page 69.

**OCKLEY ARPT-New fld. Lat 40-29-30, long. 86-39-00. (7-1) See page 69.

PERU ARPT-Use only rnwys unless strong cross wind conditions exist. (5-20)

PLYMOUTH ARPT-E/W strip avail. NNW/SSE strip avail with obstn(const.)(7-3)

PURDUE UNIVERSITY ARPT (LAFAYETTE)-Due to heavy local traffic, trans acft avoid turning in middle of fld after landing. Continue to taxi straight to end of fld then taxi to within 100' of bndry to hangar. Scattered pools of water SW end NE/SW rnwy in wet weather. Const NE end of fld(9-20

**REESE ARPT (MUNCIE)-New fld. Lat 40-11-00, long. 85-18-30. (7-1) See page 69

**REIMER ARPT (LAFAYETTE)-New fld. Lat 40-23, long. 86-53. (7-1)See page 69.

**RENSSELAER ARPT-New fld. Lat 41-02-30, long. 87-01-30. (7-1) See page 33.

**SCOTTSBURG ARPT-New fld. Lat 38-41-30, long. 85-48-00. (7-1) See page 69.

**SHANK'S ARPT (INDIANAPOLIS)-New fld. Lat 39-48-00, long. 86-14-30. (7-1)See page 69.

SKY HAVEN ARPT (BEDFORD)-Use rnwys only-shoulders soft.Left traffic pattern. Const areas mrkd. (8-27)

STARKE CO. ARPT (KNOX)-N/S strip soft. (7-25)

**STEED ARPT (PORTLAND)-New fld. Lat 40-27, long. 85-00.(7-1)See page 69.

**STILES ARPT (SHOALS)-New fld. Lat 38-41, long. 86-47. (7-1)See page 69.

STOUT FLD (INDIANAPOLIS)-Temp inactive-no facs. (See Special Notice re use).

**STRAUB ARPT (CYNTHIANA)-New fld. Lat 38-11-30, long. 87-43-00. (7-1) See page 68.

**TRIANGLE ARPT (DYER)-New fld. Lat 41-31, long. 87-29. (7-1). See page 140.

**VEVAY ARPT-New fld. Lat 38-45, long. 85-03. (7-1) See page 69.

**WASHINGTON ARPT-New fld. Lat 38-39-30, long.87-14-00.(7-1)See page 68.

**WASHINGTON MUN. ARPT-New fld. Lat 38-43-30, long. 87-10-30. (7-1) See page 68.

WHITTENBERGER ARPT (WABASH)-Use right traffic in landing S or W; left in landing E or N. No-wind conditions land to W. (8-16)

**YORKTOWN ARPT-New fld. Lat 40-09, long. 85-30. (7-1) See page 69.

IOWA

AUDUBON AIRWAYS ARPT (AUDUBON)-Fld rough.

CEDAR RAPIDS ARPT-Use rnwys, taxi strips only. (9-23)

CHAPMAN FLD (WATERLOO)-Ben, bndry, obst lgts inop. Soft in wet weather.(7-26)

COUNCIL BLUFFS INT, SITE O, OH-CO-Site will be discont and relctd soon 1-1/4 mi E of the E end of the E/W rnwy at Omaha Arpt, Nebr. (6-20)

CRAM FLD (DAVENPORT)-Const. Fld rough, equip. on fld. (3-21)

DES MOINES ARPT-Const. Entire area off rnwys E of N/S, NW/SE rnwys, E/W taxi strip closed. Use rnwys only. Equip. on fld. Army temp inactive-civil facs. (9-9)

HUNTER FLD (CEDAR RAPIDS)-Use rnwys only. (6-22)

IOWA CITY ARPT-Avail days only. Use rnwys, taxi strips only. Sod adj rnwys, taxi strips freshly seeded, graded. (8-30)

MASON CITY-RADIO: MH fac being relctd at lat 43-10, long. 93-20. (9-16)

MASON CITY ARPT-Sod between taxi strip and N end N/S rnwy unusable. (9-25)

OTTUMWA NAS-Equip. on fld. Only 73 oct avail. (7-25)

SIOUX CITY ARPT-Blinding 30 million candle pwr ceilometer 1000' N of Admin Bldg. Facs avail. 0800 to 1700. (8-21)

KANSAS

ATKINSON AIRPORT (PITTSBURGH)-CLOSED (const). (8-15)

BEECH AIRPORT (WICHITA)-Use rnwys only during damp weather. (7-1)

BLOSSER FLD (CONCORDIA)-Equip on fld intmtly. (7-13)

COFFEYVILLE ARPT-Use rnwys only. (9-23)

DODGE CITY AIRPORT-Blinding 25 million candlepower ceilometer projector installed 1000' NW of Admin Bldg. E/W rnwy closed. (7-30)

DODGE CITY AAF-Temp inactive. No facs. (See Special Notice re use).

DOWNS AIRPORT-When taking off to the S or E use right traffic. (6-15)

FAIRFAX FIELD (KANSAS CITY)-Use rnwys only. (3-12)

FORT RILEY-AA firing conducted immediately N of Marshall Range Sta.

GARDEN CITY AAF-Acft near rnwys and on ramp. Ctc Garden City Radio for landing instructions ngts. Only N/S rnwy lgts avail. Only 100 oct avail. Use extreme ctn in ngt landings, taxiing. No svcg 1700 to 0800. (8-19)

GOODLAND ARPT-Rnwy sides soft when wet. (9-20)

HERINGTON AAF-Temp inactive. No facs. (See Special Notice re use).

HUTCHINSON MUN. ARPT-Heavy acft use rnwys only. (9-23)

HUTCHINSON NAS-Use rnwys only. N,S mats closed. (8-26)

INDEPENDENCE AAF-Only N/S rnwy near ramp avail. Closed ngts. (6-22)

LAWRENCE ARPT-Center fld, taxi areas unusable, soft. Use rnwys only in dry weather. (8-16)

LLOYD FIELD (FT. SCOTT)-Use in emerg only (vegetation). (6-24)

KANSAS-Continued

MARSHALL FLD (FT. RILEY)-For AA firing see Ft. Riley, Kans. Use rnwys, taxi strips, ramps only. Soft shoulders off rnwys. Obst lgts inop. 150' twr atop 1200' hill. (4-3)

**NEWTON ARPT-ABANDONED. Loc 4 mi WNW. (9-17)

OLATHE NAS-Closed 1800 to 0800 - flights desiring landing during these hrs must notify opers before 1600. (6-13)

OLATHE OLF NO. 2-Use in emerg only - no facs.

OLATHE OLF NO. 4-Use in emerg only - no facs.

OLATHE OLF NO. 7-Use in emerg only - no facs.

OLATHE OLF NO. 9-Use in emerg only - no facs.

SHERMAN FLD (FT. LEAVENWORTH)-Left traffic on Strips 12, 15; right traffic on Strips 30, 33. Use strips only. Strips soft when wet. 10' dike connects N end N/S strip. Closed to VHB type acft. (7-8)

SMOKY HILL AAF (SALINA)-RADIO: Army DF (HF) and (VHF) Stn temp inop. (6-24) Army ILS (CAA type) temp inop. (6-25) FLD: E/W rnwy closed. (6-19)

★TOPEKA-RADIO: Sept 18, VHF range comm and flight-checked at lat 39-03-24, long 95-33-06. Mag var. 9°E. Visual courses: 72°,252°; aural courses: 162°, 342°. See Pages 30, 63.

TOPEKA-Inst flying radio range ngt, day. Call Topeka Radio at least 20 mi out before flying range.

WALKER AAF (HAYS)-Temp inactive. No facs. (See Special Notice re use). Trucks on NW/SE rnwy. (5-23)

WICHITA ARPT-Ctc lgts all rnwys under repair. Avoid taxiing over ctc lgts. Closed to trans acft without radio. Stay on concrete, sod unsafe. Equip on fld days. (8-27)

KENTUCKY

BLUE GRASS FLD (LEXINGTON)-Use rnwys only. (6-24)

BOWMAN FLD (LOUISVILLE)-CLOSED TO B-26 AND AT-23 ACFT. Heavy acft use rnwys only. Army temp inactive-civil. facs. Trans mil acft use Godman Fld.(6-28)

CAMPBELL AAF (HOPKINSVILLE)-Opers, engineering closed 1700 to 0800. No 100 oct. (6-25)

GODMAN FLD (FORT KNOX)-RADIO: Army range now operating reliably, maximum power only 25 watts. Multiples on S course about 15 mi out. (6-24) FLD: CLOSED TO ALL HEAVY AND VERY HEAVY BOMBARDMENT TYPE ACFT EXCEPT IN EMERG. Oper office open 0800 to 1700 for clearance purposes only. Ngt lighting facs avail. upon 12 hr prior notice. (3-24)

GREATER CINCINNATI ARPT (COVINGTON)-Bndry lgts inop. These data rcvd too late for ctn symbol. (10-1))

STANDIFORD FLD (LOUISVILLE)-Bndry, rnwy lgts inop. Tetrahedron unlgtd, free swinging. (5-25)

LOUISIANA

BARKSDALE FLD (SHREVEPORT)-RADIO: AACS, ground to air sta temp inop. (3-25) Army ILS (CAA type) temp inop. (6-4) FLD: Liaison type acft land Rnwy 14R-32L. Exten training - heavy traffic. (7-22)

COTTON VALLEY ARPT-E/W strip closed. (11-20)

CROSS LAKE AIRPARK (SHREVEPORT)-CLOSED (const, equip. all strips). (4-29)

DE RIDDER AAB-Temp inactive. No facs. (See Special Notice re use).

**DONALDSONVILLE INT. SITE 26, HU-NO-Dsgont for night use. Bcn and hazard warning lgts oper nights only. (9-18) E/W strip avail days. (9-18)

EAST BATON ROUGE PARISH ARPT (BATON ROUGE)-Avoid SE corner fld, marked with white flags.

HOUMA NAS-LTA-Twr operates daylgt hrs on week days only for acft in connection with Bureau of Aeronautics Storage. Closed to all other acft except in emerg. No fuel. (7-22)

IBERIA PARISH ARPT (NEW IBERIA)-Use rnwys, taxi strips; sod shoulder

LOUISIANA-Continued

parallel rnwys and taxi strips avail. lgt acft only. Rnwy lgts inop.(3-16)

JENNINGS ARPT-Use strips only in wet weather. Smudge pots avail. on prior arrangements. Unlgtd pole lines S and E side fld. (5-17)

LAFAYETTE ARPT-Avail. days only. Use rnwys only. (7-4)

LAKE CHARLES AAF-New type mercury arc 30 million candle power ceiling lgt installed sta WBAS. Operates during cloudy conditions: Pilots cautioned against looking directly into lgt. No 91 oct. (7-19)

MOISANT ARPT (NEW ORLEANS)-Use rnwys only ngts. Sod area 200' each side rnwys avail. lgt acft days only. Closed to all acft not equipped with 2-way radio except in emerg. 171' unlgtd steel derrick being erected approx 15 mi SSE in Lake Salvador. NE/SW rnwy closed (const). (9-23)

MONROE ARPT, new-Arpk 1/2 mi SE of old Monroe Arpk unsafe (soft). (9-12)

NATCHITOCHES ARPT-Taxi to right. (4-23)

NEW ORLEANS ARPT-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. Obst lgts on S pole line inop. Equip on fld days. Non-radio equipped acft use extreme ctn. Closed to all Army acft except primary, basic and advanced (not inclg converted tactical type) trainers, utility cargo, C-46, C-47 series, C-60, C-64, liaison acft. helicopters and autogyros.(7-20)

NEW ORLEANS NAS-Closed to naval acft exceeding 9000 lbs. Equip. on all rnwys. Fld on positive control. (9-9)

HOUSTON ARPT-Strips under const. Avail lgt acft with ctn. (5-2)

SELMAN FLD (MONROE)-Closed to all acft except scheduled airlines. No svcg facs. Obst lgts atop twr, hangars, flood lgt poles N side fld inop. Ngt lighting facs not avail. trans acft. Equip. on fld. (9-4)

SHREVEPORT AIRPARK, INC-Const on fld. Land S of new hangar. Equip on fld days. (6-18)

SHREVEPORT ARPT-Use rnwys only. Two 120' derricks 1/2 mi SW fld and one 120' derrick 1-1/4 mi S within approach zone N/S rnwy lgtd. (8-7)

TURNER FLD (MONROE)-N half N/S strip soft - E half avail. (5-25)

MAINE

AUGUSTA ARPT-Bcn operating intmtly. Obst lgts atop poles 400' N of ENE/WSW rnwy, and on bldgs S side Admin Bldg inop. Equip. on fld days. (9-5)

BANGOR-RADIO: Range flight-checked Sept 18, courses correctly aligned.

BRUNSWICK NAS-Closed to all but off. flights (caretaker status - no facs.)

DOUGLAS FLD (BRUNSWICK)-Right traffic in use when wind is from the S.(10-22)

DOW FLD (BANGOR)-Temp inactive. No facs. (See Special Notice re use). E/W rnwy closed. Use concrete portion fld only. Closed 1900 to 0700. (7-1)

**DOWN EAST AIR SERVICE SEAPLANE BASE (BANGOR)-New base. Lat 44-49, long 63-43. (9-5) See page 143.

HOULTON ARPT-Closed to all acft except scheduled airlines-all other acft land by prior permission from Resident Engineer, Tlfo #2211. (8-28)

LEWISTON-AUBURN ARPT (AUBURN)-Safety strips unsafe heavy acft-use rnwys.(7-20)

MILLINOCKET-RADIO: Range flight-checked Sept 20, courses correctly aligned. Auto. range monitor sys temp inop.

MILLINOCKET ARPT-NW/SE rnwy closed from intersection to NW end. (9-23)

NORRIDGEWOCK ARPT-CLOSED - use in emerg only.

OLD TOWN ARPT-Use rnwys only - safety strips rocky. Lgts inop. (7-10)

PORTLAND ARPT-E/W rnwy closed ngts (ctc lgts inop). Equip. on fld days.(9-20)

PRESQUE ISLE AAF-RADIO: Army DF facs on standby status; services avail within 1/2 hr upon req over air to ground or point to point facs. (3-4)

RAYMOND'S ARPT (PHILLIPS)-New NW/SE rnwy parallel to old NW/SE rnwy under const. Equip. on fld. (5-19)

SCARBORO ARPT-Avail lgt acft only. Use N/S strip. Land within flagged area. (7-22)

MARYLAND

ANDREWS FLD (CAMP SPRINGS)-No 91 oct. (5-31)

BALTIMORE MUN. ARPT-No crash equip. Use rnwys, taxi strips only, other areas soft. 2 cranes 20 and 40' high operating approx 250' S, SW of Rnwys 32, 27; 80' crane 800' N of N/S rnwy, mrkd. 65' boom on floating derrick on Colgate Creek adj fld, mrkd-lowered, lgtd ngts. Const.Equip on fld. N/S rnwy closed, mrkd. (9-29)

BELTSVILLE OLF-Closed to civil. acft except in emerg. (7-31)

EDGEWOOD ARSENAL FLD-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG OR PRIOR PERMISSION FROM CO. Closed Sat and Sun. Operates Mon thru Fri 0800 to 1600. Approach fld N of Penn RR. High alt bombing E and S. Stay on concrete. (2-20)

ERCO ARPT (RIVERDALE)-Gen. fld const, however, one strip always avail.(9-20)

GLENBURNIE-WHLPP ARPT (GLENBURNIE)-Avoid flagged area (equip.).(5-22)

HAGERSTOWN ARPT-Acft parked on hangar and factory apron, also along W bndry of fld just W of the N end of the N/S rnwy and N of the W end of the E/W rnwy. Use ctn in landing and taking-off in area off rnwys. (9-20)

LEE ANNAPOLIS ARPT (ANNAPOLIS)-N/S rnwy closed (const). NE/SW rnwy and black-topped taxiway avail. E/W strip not suitable for acft heavier than twin-engined type. (5-21)

MARTIN ARPT (BALTIMORE)-First 1500' Rnwy 14 closed. Equip. all rnwys.(9-10)

MEEKINS NECK-RADIO: FM signals on NE course of Patuxent River Navy range, weak. (1-12)

★PATUXENT RIVER NAS-RADIO: Navy seaplane twr decomm. Call landplane twr. (9-11) FLD: Taxi strips adj and parallel to Rnwy 13-31 between Rnwys 2-20 6-24 closed. Ditches, equip. adj taxiway parallel to Rnwy 2-20, ditches adj Rnwy 9-27, mrkd. Equip. on fld. Rnwy 6-24 closed (repairs)(9-20)

PHILLIPS FLD (ABERDEEN)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. Equip. on fld. Ltd svcg. No maintenance or RON. Closed Sats., Suns. Rnwy 4-22 closed. Approach fld from N only, fly heading of 200° from Aberdeen to fld. Avoid area 1500 yds S of fld; firing up to alts of 25,000'. No 91 oct. Closed to very heavy type acft. (7-30)

SCHROM ARPT (GREENBELT)-SE end NW/SE rnwy under const, marked. Use only rnwy pavement and taxi strips. (3-16)

WEBSTER FLD (PRIEST POINT)-Blue and white checkered flag flown on Opers Bldg during daylgt hrs when twr not manned. (2-6)

MASSACHUSETTS

BARNES ARPT (WESTFIELD)-Oper of arpt bcn days only indicates scheduled airlines in vcnty arpt. Acft proceed with ctn when bcn lgtd. Cto Westfield Radio for lgts. (8-4)

BOSTON-RADIO: Range flight-checked Sept 17, courses correctly aligned. Soon FM will be comm at Dedham, Mass lctd at lat 42-15-59, long 71-10-07, on SW course 14.4 mi from range sta. Ident, two dots, three dashes (. . - - -) Bear. and dist, range sta to Fld: 238°, 14.4 mi. When Dedham FM is comm, idcnt of Franklin, Mass FM will be changed to three dots, three dashes (. . . - - -) (8-6)

BOWLES ARPT (AGAWAM)-High grass. Ltd maintenance. (6-6)

BROCKTON ARPT-E/W strip closed (const). N/S strip under const-avail with ctn. (6-4)

BROOKFIELD ARPT-Rough and steep. (7-22)

CAPE COD BAY-Wire cable 35' above high tide extending between wooden twr and fish processing plant has been established approx 5 mi SE Provincetown at lat 42-01-00, long 70-05-30, extending 1000' seaward from shore of Cape Cod Bay.

**EAST BROOKFIELD ARPT-New fld. Lat 42-13-30, long 72-06-30. (9-5) See page 44

**EASTHAM THUNDERTOWN ARPT (ORLEANS)-New fld. Lat 41-51, long 70-00. (9-5) See page 45.

**FALL RIVER SEAPLANE BASE-New base. (9-5) See page 143.

**GLOUCESTER FLYING SERVICE INC SEAPLANE BASE (GLOUCESTER)-New base. Lat 42-36-40, long 70-40-10. (9-5) See page 143.

GRAFTON ARPT (NORTH GRAFTON)-Avail lgt acft. Heavy acft use ctn. Avoid W, SW portions of fld. (6-15)

**HILLER ARPT (NEW BRAINTREE)-New fld. Lat 42-21, long 72-08. (9-5) See page 44

LAWRENCE ARPT-At ngt use rnwys for landing and taking off. (3-23)

LOGAN ARPT (BOSTON)-Landing and dockage fees in effect as follows: Acft over 10,000 lbs $3.00; more than 10,000 lbs and less than 27,000 lbs $6.00; 27,000 lbs or over $10.00. Passenger planes shall pay in addition to above $1.00 per enplaning passenger. Freight, cargo and express planes shall pay in addition $6.00 per day or fraction thereof beginning at time of landing. Private or personal planes shall pay $1.00 when landing. All trans pilots must register at office of Arpt Manager and pay fees. Pilots will be denied clearance until fees are paid. All acft must be equipped with operating 2-way radio. (9-26) Closed to B-17 and all Army tricycle gear type acft-use Bedford AAF. Army temp inactive-civil. facs. Range lgts inop. Equip. on fld. Mercury arc vertical beam NW end new temp NW/SE rnwy-used intmtly day, ngt. Floodlgts and wind tee rmvd. Equip. on perimeter of fld. New 5900' Rnwy 15-33 and Rnwy 4-22 avail. Rnwy 16-34 closed. NE 100' Rnwy 7-25 unsafe. Ditches N side Rnwy 15-33 midway between ends, mrkd. 100' floating derrick SW end Rnwy 4-22, mrkd. New hangar being erected SW corner of old fld, lgtd. (9-26)

**LOWELL SEAPLANE BASE-New base. (9-5) See page 143.

**MERRIMAC VALLEY SEAPLANE BASE (METHUEN)-New base. (9-5) See page 143.

MYRICKS ARPT-Wires on S end N/S strip. (7-13)

**NEW BEDFORD SEAPLANE BASE-New base. In harbor. (9-5) See page 143.

OTIS NAAS (FALMOUTH)-Use in emerg only (caretaker status-no facs.).

**PILGRIM FLD (NORTHAMPTON)-New fld. Lat 42-25-15, long 72-35-35. (9-5) See page 44.

PITTSFIELD ARPT-SITE 3B, ALBANY-BOSTON-Land acrdg to wind sock. (8-27)

**PLYMOUTH ARPT-New fld. Lat 41-56-30, long 70-39-00. (9-5) See page 45.

**REVERE ARPT-Reinstated. Lat 42-25-30, long 71-01-00. (9-5) See page 45.

**RICHARDSON ARPT (DRACUT)-New fld. Lat 42-40-30, long 71-20-00. (9-5) See page 45.

**SOUTHBRIDGE ARPT-New fld. Lat 42-06, long 72-02. (9-5) See page 44.

**SOUTH HADLEY SEAPLANE BASE (HOLYOKE)-New base. (9-5) See page 143.

SOUTH WEYMOUTH NAF-50' lgtd antenna pole 2200' from S edge landing mat.(6-25)

**SPENCER ARPT-New fld. Lat 42-15-30, long 71-57-30. (9-5) See page 45.

SPRINGFIELD ARPT-Lgts inop. (6-24)

SQUANTUM NAS-Unlgtd 100' boom on lighter at bndry due W between Rnwys 2 and 8. Equip. at bndry. (8-14)

STEVENS FLD (NORTH ADAMS)-Avail. only lgt acft. (6-27)

★WESTOVER FLD (CHICOPEE FALLS)-RADIO: Compass locators and middlex and outer markers of Army ILS temp inop. (9-24) Army GCA svs is now on cont alert and operate on 30 minutes notice. (9-18) Westover approach control will control all acft inbound and outbound. Acft will be instructed by air traffic control when and where to contact Westover approach control. Minimum alt for all acft landings: 800-1 days; 800-2 nights. (9-24) FLD: No maintenance for trans mil acft; acft requiring svcg other than routing, gas and oil should not land this fld. (7-31)

**WEST SPRINGFIELD ARPT-New fld. Lat 42-07-30, long 72-37-30. (9-5) See page 44.

MICHIGAN

ABRAMS ARPT (GRAND LEDGE)-Hangar being const. N/S,E/W strips newly sodded. (6-20)
ADRIAN CITY ARPT (ADRIAN)-W side fld being graded (stakes, flags). Extreme otn in landing all strips except NE/SW strip. (3-18)1
ANN ARBOR AIRPORT-Use rnwys only. Taxi strips being widened, apron and parking areas being enlarged. Equip. on fld. (6-14).
BAKER'S FIELD (PORT HURON)-Use strips only. (6-25).
BISHOP ARPT (FLINT)-Use rnwys only when turf soft. Lgt acft use turf adj left side of concrete. Unmarked acft parked on fld within 500' of bldgs. 160' water twr under const 1-1/4 mi NE, unmrkd. (8-15).
CALVIN CAMPBELL MUN ARPT (INDIAN RIVER)-Emerg use only. (6-24)
CAPITAL CITY ARPT (LANSING)-Use only rnwys, new N/S strip. Strip closed ngts Equip. on fld days-acft parked W side fld E of apron. (9-20).
DETROIT CITY AIRPORT-Equip. on landing area days. Inbound acft required to have radio receivers. (7-12).
DETROIT NAS-Closed 1700 to 0800. (9-14)
DR. HAINES FLYING FIELD (THREE RIVERS)-Sides and ends of strips soft.(5-10)
EMMET CO. ARPT (PELLSTON)-Avail. all acft days. (9-24).
FITCH H. BEACH AIRPORT (CHARLOTTE)-Caution on taxi strips. (5-10)
**FLAT ROCK ARPT-New fld. Lat 83-16-30, long. 42-06-15. (9-18) See page 37.
FORD ARPT (DETROIT)-CLOSED. Avail emerg use only. Use rnwys only. (8-14).
GLADWIN ARPT-40 x 60' unlgtd hangar NW corner fld. (9-27)
GROSSE ILE-Caution area within the following described area is now being activated: beginning at lat. 42-06, long 83-10; due W to long. 83-45; WSW to lat. 41-53, long 85-00; S to lat. 41-46; E to long. 83-30; NNE to point of beginning. (9-12)
JAMES CLEMENTS AIRPORT (BAY CITY)-Closed ngts. Heavy acft use rnwys only. (7-20)
JEWETT ARPT (MASON)-Strips mrkd with yellow markers. Plowed areas unusable. (rough). (7-3)
KELLOGG FIELD (BATTLE CREEK)-Equip. on fld. (6-2).
KINROSS AAF-Temp inactive. No facs. (See Special Notice re use).
LAPEER AIRPORT-Hangars under const. Use strips only. E/W, N/S strips being widened. (7-13).
LINDBERGH AIRPORT (KALAMAZOO)-Avail. ngts in emerg. All landings made in accordance with wind tee lctd midway between NW end NW/SE rnwy and N end N/S rnwy. (6-27)
MACKINAC CO. ARPT (ST. IGNACE)-Trucks, equip. on SE side fld. (9-20)
McKINLEY AIRPORT (FRASER)-Closed except to lgt acft in dry weather, soft.
MOUNT PLEASANT AIRPORT-Strips soft in wet weather. (3-16)
MUSKEGON CO. ARPT (MUSKEGON)-Use rnwys only-rough. (9-20)
OSCODA AAF-Use rnwys, taxi strips only. Temp inactive. No facs. (See Special Notice re use).
OTSEGO COUNTY ARPT (GAYLORD)-Const-usable with otn. (5-16)
PRICKETT FLD (SIDNAW)-Unusable-under const. (6-25)
RACO AAF-Temp inactive. No facs. (See Special Notice re use).
ROMULUS AAF-RADIO: Army ILS (CAA type) less glide path, inop. (8-30)
SAGINAW ARPT-Constructing new hangar S side of fld. (8-26)
ST. CLAIR COUNTY AIRPORT (PORT HURON)-Use strips only. (5-22)
SAULT STE MARIE ARPT-Loose gravel on N/S rnwy. Use rnwys only. (9-20)
★SELFRIDGE FLD (MT. CLEMENS)-RADIO: AACS, ground to air stn now gds 116.1, 137.88, 140.58 mcs. only. (9-30)
STINSON ARPT (WAYNE)-Closed to trans acft. Const sides N/S rnwy. (7-10)
TWIN CITY ARPT-ROSS FLD (BENTON HARBOR)-Use rnwys only (shoulders, fld soft after heavy rains), marked. (6-26)

MICHIGAN-Continued.

WASHTENAW ARPT (ANN ARBOR)-Use rnwys only. Avail days only. (8-14)
★WILLOW RUN ARPT (YPSILANTI)-RADIO: Twr oper by PCA now transmits on 332kcs, 118.7 mcs. Gds 3105,4495,6210,3117.5 kcs, 118.7 mcs. Oper 0800 to 2400. (9-30). These data rcvd too late for inclusion in "ANRA" and on "Flight Planning Charts". FLD: Equip on fld. Trucks on NE/SW taxi strip.(6-15)
YPSILANTI AIRPORT-Use strips only. (4-1)

MINNESOTA

ALEXANDRIA AIRPORT-New ramp being const adj present ramp. (7-12)
APPLETON AIRPORT-Use rnwys, taxi strips only. (6-26)
BENSON AIRPORT-Only NW/SE strip avail, bal fld under const. (6-16)
DECKER AIRPORT (AUSTIN)-Acft over 3500 lbs use caution. (6-28)
DETROIT LAKES AIRPORT-CLOSED (const). Will be avail. soon. (5-24)
FARIBAULT AIRPORT-Closed to all acft weighing over 5000 lbs. (5-16)
FERGUS FALLS ARPT-Temp closed (const). (6-17)
FLYING CLOUD AIRPORT (MINNEAPOLIS)-Const. (12-17)
MANKATO AIRPORT-Use strips only. (5-16)
MINNEAPOLIS-Soon lgt atop Foshay Twr will be discont. perm. (7-16)
MONTEVIDEO ARPT-Const until approx Oct 5. Temp rnwys will be avail. Equip. on fld intmtly. (9-19).
ORTONVILLE ARPT-Temp closed (const). (6-20)
PARK RAPIDS ARPT-Temp closed (const). (6-17)
★ROCHESTER ARPT-RADIO: CAA twr comm Oct. 1. Freq. 278 kcs, 126.18 mcs. Gds 3105,4495,6210,3117.5kcs, 116.1,126.18,140.1 mcs. too late for inclusion in "ANRA" and on "Flight Planning Charts". FLD: Equip. on infld. Tetrahedron free swinging. SW 800' NE/SW rnwy closed (repairs).(7-30)
ST. PAUL ARPT.-Use rnwys, taxi strips only. (8-1)
THIEF RIVER FALLS ARPT-Const. Fld closed to hvy acft. Portion old E/W rnwy, most of N/S rnwy avail. lgt acft only. (8-27).
UNIVERSITY OF MINNESOTA AIRPORT (NEW BRIGHTON)-E/W strip rough. (5-15).
VICTORY AIRPORT (MINNEAPOLIS)-Surplus Acft Sales Center - parked acft.
WHITNEY MEMORIAL ARPT (ST. CLOUD)-Ctn, glider opers. (6-19).
WILLIAMSON-JOHNSON AIRPORT (DULUTH)-Closed ngts. (8-1)
★WOLD CHAMBERLAIN FLD (MINNEAPOLIS)-RADIO: AACS, ground to air stn now oper. on 4660kcs voice, 5800 and 2936 kcs CW. (9-24). Army DF sta oper temp suspended. (2-14). FLD: Designation as Special Clearing Sta. cancelled. Crane with 100' boom operating NE side fld days, mrkd. Lgt acft use grass areas; heavy trans acft use rnwys. Equip. both sides N/S rnwy 0800 to 1600. Bldg being const 400' E of N/S rnwy and 1000' N of S end N/S rnwy, mrkd. (9-21)
WORTHINGTON AIRPORT-New fld 1/2 mi ENE unusable. (6-22).

MISSISSIPPI

AUGUSTINE FIELD (JACKSON)-Use strips only - parked acft.
COLUMBUS AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys only. (8-19).
FOREST INT, SITE 46, FV-AG-Three bndry lgts SE side fld being replaced with flush type lgts and lctd 260' NW of old lctn and one conventional type bndry lgt with cone installed 1240' N of twr, 280' W of present bndry lgt, being in line with the three flush lgts. (9-17).
GREENWOOD ARPT-Use rnwys only-sodded portion soft. (9-9).
GRENADA ARPT-Civil. facs. NE/SW rnwy closed. (6-28).
GULFPORT MUN. AIRPORT-Closed ngts. Fld lgts inop. Ltd svcg. Avoid flying over area directly off SW corner. Entire sod fld avail. (5-27)
JACKSON-RADIO: Range flight-checked Sept 18, courses correctly aligned.
JACKSON ARPT-Rnwys 16L-34R, 2-20 open to lgt acft only. Bndry lgts NW end rnwy 11, SE end Rnwy 34 discont. (8-14).
JACKSON COUNTY AIRPORT (PASCAGOULA)-Trans acft use rnwys only - drainage grills under grass. (5-17)

MISSISSIPPI-Continued.

KEESLER FLD (BILOXI)-Use rnwys only. Floodlgts avail on req. Ngt opers rstd to acft with 2-way radio. 20' boom NE corner NE/SW rnwy, mrkd. (5-6)
KEY FLD (MERIDIAN)-Radio Stn WTOK erecting 180' twr 5 mi NE, lat 32-22-46, long. 88-40-04. (9-7)
LAUDERDALE CIVIL ARPT (MERIDIAN)-Cattle on fld.(6-6)
LAUREL AAF-Army temp inactive. - civil. facs.
McCOMB AIRPORT-W 1/3 of E/W rnwy unusable. (5-27)
WINONA AIRPORT-Use N/S strip only. (3-25)

MISSOURI

BAILEY'S AIRPARK (CHILLICOTHE)-NE/SW strip usable in dry weather, only. (5-4)
BUTLER ARPT-NW/SE, NE/SW strips being lengthened, all strips being widened.
CHILLICOTHE (Site 7, Kansas City-Chicago)-Use rnwy only-sod areas soft.(9-4)
COLUMBIA ARPT-Equip on fld days. Heavy student traffic. Ngt flying 3 mi radius fld. Sod at rnwys sides soft when wet. Traffic pattern 800' on downwind leg. Bldingin 20 to 30 million candle pwr ceilometer 1000' E of rot. bcn. 200' twr being const 1 mi SE, temp obst lgtd. (8-29)
FULTON AIRPORT-N/S rnwy closed to heavy acft. (5-24)
HARRIS FIELD (CAPE GIRARDEAU)-Use strips only - parked acft.
HARVEY PARKS AIRPORT (SIKESTON)-Use rnwys only -parked acft.
INDEPENDENCE AIRPORT-N/S strip avail., bal fld closed (grading).(6-25)
JEFFERSON CITY AIRPORT-E/W, N/S strips avail. lgt acft only (sod soft when wet). NE/SW strip avail. twin-engine acft not exceeding weight of C45-C78.
JOPLIN ARPT-Obst lgts NE end NW/SE rnwy inop. (9-29).
KANSAS CITY ARPT-RADIO: Effect Sept 30 lclsr glide path and bndry marker will be inop for indef period (const.). FLD: CLOSED TO ALL ARMY ACFT EXCEPT IN EMERG-USE FAIRFAX FLD. Army acft rstd from refueling except in extreme emerg. Equip. on fld. Floodlgts on req. Neon approach lgt sys discont until approx Mar 3, 1947 due to maj const N end arpt. Levee around arpt, 20' above fld level 300' off N end N/S rnwy, unlgtd. Extreme ctn ngts. S portion fld immediately W and NW of Goebel Bldg being leveled Fresh dirt being dumped to bring this portion of fld up to level. (9-27)
KANSAS CITY-GRANDVIEW AIRPORT (KANSAS CITY)-Equip. on fld days. (8-1)
KIRKSVILLE AIRPARK-E/W rnwy under const. unmarked. (7-17)
KNOXVILLE (Site 3, Kansas City-Chicago)-Fld discont. Beacon being relctd approx 1/4 mi W. Will be comm soon. (7-23)
LAMBERT FLD-ST. LOUIS ARPT (ST. LOUIS)-RADIO: CAA ILS flight-checked Sept 20. FLD: Surplus Acft Sales Center-parked acft. Closed to non-radio equipped acft. Equip. on fld and ramp. Const E, SE bndry fld. Taxi strip between Rnwys 6 and 34 SW quadrant and E 1300' Rnwy 7-25 closed. Navy facs closed 1700 to 0800 except when Opers Officer notified 2 hrs prior to 1700. (9-24).
LEBANON (Site 54B, Amarillo-St Louis)-Equip on fld. (8-15)
ROBERTSONS FLD (ST. JOSEPH)-Closed ngts. Beacon inop. (9-3)
SEDALIA AAF (KNOBNOSTER)-RADIO: Army range unreliable. May be used for homing only without courses; may be intermittent in oper. (7-18). FLD: Temp inactive-no facs. (See Special Notice re use). Use rnwys only.
SPRINGFIELD-GREENE COUNTY ARPT (SPRINGFIELD)-Use rnwys, taxi strips only, bal fld rough. Blinding 30 million candle pwr ceilometer projector in operation on E bndry. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only.(9-23).

MONTANA

BAKER ARPT-2' gully across NW/SE strip 1200' from SE end, across E/W strip, 400' from E end. (6-5)
BILLINGS ARPT-Lgt lane for ILS operating for test purposes only. Lgtd lclsr bldg 1100' from W end E/W rnwy, lgtd glide path bldg 300' N of E/W rnwy adj E bndry. Army acft rstd from refueling excent in extreme emerg.(9-23)
BUTTE ARPT-Blinding 30 million candle pwr ceilometer 267' E of center of N/S rnwy. (9-11).

MONTANA-Continued.

COLUMBUS AIRPORT-E section arpt from middle of fld closed (const). Equip on fld, unmarked. (6-22).
CUSTER-RADIO: 116.1 mc transmitter and receiver temp inop. (8-1).
CUT BANK ARPT-Obst lgts on twr, beacon inop. Cte lgts avail. on req. (9-1)
GREAT FALLS-RADIO: Range flight-checked Sept. 19, courses correctly aligned
★GREAT FALLS AAF-RADIO: AACS, ground to air stn now transmits on and rcds: 4765, 4697.5,2862 kcs, 116.1, 137.88,140.58 mcs voice; 4595,8200 kcs CW. Cds 8200,500 kcs voice. Operates cont. (9-27) Army ILS (CAA type) lclsr, middle and outer mrkrs temp inop. Bndry mrkr operating. (9-24). FLD: Rnwy lgts 75' in from outer edge of rnwy shoulders; use 150' center strip. Rnwy 16-34 closed. (9-27).
HAUSER LAKE BEACON SITE 42, SL-GT-Bcn inop. (9-18).
HELENA ARPT-Rnwys rstd to acft under 30,000 lbs. Equip. on fld. NE/SW rnwy unlgtd. Blinding 30 million candle pwr ceilometer 150' W of fld adj middle portion of W bndry. (9-13).
LEWISTOWN AIRPORT-Use rnwys only. (7-23).
MILES CITY ARPT-Bndry lgts inop. (9-20)
MISSOULA COUNTY AIRPORT (MISSOULA)-NE/SW rnwy closed. NW/SE rnwy closed to class B-17 or heavier acft. (6-23).
POLSON AIRPORT-Usable with caution. (7-19).
QUARTER CIRCLE MC RANCH ARPT (POLEBRIDGE)-E end fld soft, avail.lgt acft.
SIDNEY AIRPORT-Ends of strips in cultivation.
WOLF POINT ARPT-Hay stacks on fld. (9-10)

NEBRASKA

BEATRICE AIRPORT-Exten const. (5-24).
CLAY CENTER ARPT-Use strips only. (5-19)
CLEAR RIDGE AIRPORT (OMAHA)-Use strips only. (5-26)
COLUMBUS AIRPORT-Ditch W edge of the S half of NW/SE strip. (5-25).
ELGIN ARPT-Haystacks on fld. (5-24)
FREMONT AIRPORT-Equip, stakes on fld. (7-28)
★GRAND ISLAND AAF-RADIO: Army twr now operates 0800 to 2300. (9-27) These data rcvd too late for inclusion in "Air Navigation Radio Aids". Army ILS (SCS-51) temp inop. (9-27) FLD: Only 73, 100 oct avail. (8-20)
KEARNEY AAF-2nd and 3rd Echelon maintenance not avail. Use rnwys, taxiways only. No svcg 1700 to 0800. (7-11)
LEE BIRD FLD (NORTH PLATTE)-Army acft rstd from refueling except in extreme emerg. (8-28). Equip on fld days. Const in area from intersection of E/W, NW/SE rnwys to hangar line, marked. Use rnwys only. (6-19)
LINCOLN ARPT-Private acft taxi and park on ramp S of Admin Bldg tostay clear of Airline traffic. (9-25).
McCOOK AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys only - shoulders extremely soft.
**OFFUTT FLD (OMAHA)-Three 435' twrs Rdo Stn KFAB lctd. 4 mi W (271°) true. Obst lgtd, no flashing lgt, unpainted. (9-13).
OMAHA ARPT-S taxi strip avail. only single engine acft. Use rnwys only. Rnwy 17R-35L avail lgt acft only. Rnwy 2-20 closed. (9-17)
SCOTTSBLUFF-RADIO: Soon range stn will be converted to SBMRLZ-DT and courses will be realigned to: NE 205°,SW,25°. (9-1)
SIDNEY INT., SITE 50, SL-OH-E/W strip avail., bal fld rough. (9-20)
**WESTPOINT ARPT-New fld. See page 29. (9-19)

NEVADA

ALAMO ARPT (LAS VEGAS)-Const equip SW end NE/SW strip. (3-13).
BATTLE MOUNTAIN FLIGHT STRIP-SITE 35, SAN FRANCISCO-SALT LAKE-Use paved surfaces only - shoulders soft. Equip on fld days. 40' obst 800' from NE end NE/SW rnwy - lgtd ngts. (8-14).
BOULDER CITY ARPT-Avoid SW 1000' NE/SW rnwy (washout). Will be repaired approx Oct. 2. (9-11).
DOUGLAS-TAHOE AIRPORT (MINDEN)-S 700' N/S taxiway closed. (4-2)
FERNLEY (Site 22, San Francisco-Salt Lake)-Rough with soft areas due wind erosion, soft sand, marked. (7-10).
★HUBBARD FLD (RENO)-RADIO: UAL twr comm Sept 17. See pages 21, 52. FLD: Equip E, W ends Rnwy 7-25. (9-17).
HUMBOLDT INT. SITE 28B, SF-SL-Washes on SE quarter fld. (9-20).
INDIAN SPRINGS AIRPORT-Temp inactive. No Facs. (See Special Notice re use).

NEVADA-Continued.

LAS VEGAS-RADIO: VHF range will be comm soon at lat. 36-11-06, long. 115-05-48. Bear. and dist, sta to McCarran Fld: 24°, 4.2 mi. Freq. 109.1 mcs. Ident "LQ" (. - . . - - . -) Courses: Visual, 29°, 209°, Aural, 119°,299°. Mag. variation 16°E. Simult voice channel and receiving watches (3117.5 kcs, 116.1,131.7 mcs) avail. 24 hrs daily. Sta. class: VAR-VDT.

LAS VEGAS AAF-No weather forecasting. Clearance by AFS. Opers and ltd maintenance facs avail. 0800 to 1700 Mon thru Fri only. Obst bcns No. 3 and 4 atop Sunrise Mtn inop. (9-6)

RENO AAB-Temp inactive. No facs. (See Special Notice re use).

TONOPAH-RADIO: Sta unmanned from 2400 to 0800 daily. (7-31).

TONOPAH AAF-Temp inactive. No facs. (See Special Notice re use).

NEW HAMPSHIRE

BOIRE FIELD (NASHUA)-Wind cone atop brick hangar bldg used to indicate wind conditions. In calm air conditions, take-offs and landings will be made toward the NW. (7-15).

BRATTLEBORO-HINSDALE AIRPARK (HINSDALE)-Use only N/S strip unless familiar with fld. (6-4).

GRENIER FIELD (MANCHESTER)-RADIO: Glide path and inner marker of army ILS (SCS-51) temp inop. (7-23)

HOOKSETT LAND & SEAPLANE BASE (HOOKSETT)-Avail. days only. (5-9)

LAKES REGION ARPT (WOLFEBORO)-CLOSED (const). Grass strip avail. in emerg.

LANCASTER AIRPARK -CLOSED. (4-25).

LEWIS FIELD (LITTLETON)-CLOSED (const). (4-23).

NEWPORT AIRPORT-60' trees at N end and edge of N/S strip. (1-8)

NEW JERSEY

SPECIAL NOTICE-All acft remain clear of air space over Atlantic City within 5 mi radius from Million Dollar Pier between 1430 and 1600 on Oct. 4 and 5.

ATLANTIC CITY NAS-Avail. 0700 to 1530 Mon thru Fri. ETA prior to 0700 and after 1530 requires previous arrangement with Operations Officer. (7-11).

BENDIX-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.

BOUNDBROOK-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.

CALDWELL-WRIGHT ARPT (CALDWELL)-5' trench 2-1/2' wide 200' SE of NW/SE rnwy until approx Oct 8. (9-17).

CAPE MAY COAS-Closed to trans acft except in emerg. (caretaker status-no facs)

CARTARET-Beacon, side lgts inop on twr Radio Sta WOR. (7-24).

FORT DIX-Artillery range at Fort Dix. When firing in progress, special traffic patterns are used.

FORT DIX AAB (WRIGHTSTOWN)-Temp inactive. No facs. (See Special Notice re use).

HEIGHTSTOWN ARPT & AIR SERVICE ARPT (HEIGHTSTOWN)-Under const. (3-12).

LAKE SUSQUEHANNA AIRPORT (BLAIRSTOWN)-Temp fence erected at SW rnwy at bndry of fld. (8-6).

NASSAU AIRPARK (CLARESVILLE)-100' drainage ditch N side NNW/SSE strip, mrkd.

NEWARK-RADIO: Multiples all courses.

NEWARK ARPT-To reduce the noise of acft flying over Newark residential areas and to avoid tall bldg section following must be complied with: 1. Increase the rate of climb as much as practical. 2. North-bound or East-bound acft make left turn as soon as practical when taking off to SW. 3. Make a half left turn as soon as practical when taking off to W. 4. Make a half right turn as soon as practical when taking off to N. Pass at least 500' to E of gas tanks lctd in Harrison when making a southerly direction approach to the N/S rnwy. 5. Whenever practical the arpt traffic controller will suggest the use of rnwys which will permit acft to avoid passing over residential and tall bldg areas. (9-7). Closed to all acft without 2-way radio. Landing fee for itinerant acft now in effect based on weight classificatio All acft must taxi to the City of Newark Registry Office NW side fld and register. E 800' Rnwy 28 rough. Pilots are to make approach for numeral on Rnwy. No hangar space for Army acft. S 1800' from extreme end pavement Rnwy 1 closed until approx Oct 14. (9-14).

SOLBERG-HUNTERDON AIRPORT (READINGTON)-NE end NE/SW rnwy under const. (6-16)

TETERBORO AIR TERMINAL (BENDIX)-Heavy acft use NE/SW, N/S rnwys. Taxi strip S end fld incomplete. Acft landing from N must taxi back on rnwy to N end taxi strip. Use extreme ctn due to other acft landing on rnwy. Lgt acft use NNE/SSW rnwy. Signal lgt from twr in oper 0800 to 2000. All acft landing and taking-off should be guided accordingly. (8-6).

NEW MEXICO

ALAMOGORDO-AAF-RADIO: Army ILS (CAA type) inop. (8-7) FLD: Opers and svcg avail. 0730 to 1600 Mon thru Fri only. Rnwy 3-21 lgts inop. (7-19)

ALBUQUERQUE AIRPORT-Used by RFC. Avail. only for delivery surplus acft this fld, prospective purchasers of surplus acft or parts, or in emerg.

ANTON CHICO (Site 78A, Los Angeles-Amarillo)-No fuel. (5-30)

CLOVIS AAF-RADIO: Army ILS (CAA type) temp inop. (6-27) FLD: No 91 oct.

CREWS FIELD-SITE 42, EL PASO-PUEBLO (RATON)-CLOSED (const). (4-29)

DEMING AAF-Temp inactive. No facs. (See Special Notice re use).

GALLUP AIRPORT-E/W rnwy closed. (5-4).

GALLUP CITY FLD-ENE/WSW strip under const. (5-7)

HOBBS AAF-Rnwys 3-21, 12-30 closed. Ltd svcg, maintenance. (6-10)

HOBBS MUN. ARPT-Allway landing area rough. Heavy acft use rnwys only.(7-21)

JUNDT FLD (STRAUSS)-Avoid E 500' E/W strip. Fld soft when wet, dusty when dry. Closed to cross-country acft when wet. S half E/W strip being widened. (5-28).

KIRTLAND FIELD (ALBUQUERQUE)-RADIO: CAA ILS will be comm soon serving the N/S rnwy with approach from the S. Mag heading for landings: 349° Loclzr transmitter lctd 1030' N of N end N/S rnwy, freq 110.3 mcs, ident "AB" (. - - . . .) Glide path transmitter lctd 1500' N of S end N/S rnwy, 400' W of centerline, freq 335 mcs. Two marker beacons: outer marker lctd 4.32 mi S of S end N/S rnwy, keyed two dashes per sec; middle marker lctd 3400' S of S end N/S rnwy, keyed with alternate dots and dashes. (9-10). AACS, IDS and DF (HF) facs temp suspended. (6-25). FLD: Blinding 25 million candle-pwr ceilometer projector installed 1000' N of Terminal Bldg. (6-5)

LAS VEGAS AIRPORT-Use rnwys only - bal fld unsafe. (5-30)

MAGDALENA MUN. ARPT-Large rocks, holes scattered over strips. Water across strips. Use ctn after rain. (5-6)

ROSWELL-Inten inst train. on Roswell Radio Range below, above and in overcast. Acft inbound to Roswell or operating in vicinity under IFR, contact Roswell Radio for instructions.

ROSWELL AAF-Inside Rnwy 3L-21R closed. Ltd parking, svcg facs. (5-2)

SANTA FE ARPT, New-Rnwy lgts inop. Army acft rstd from refueling except in extreme emerg. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23).

WEST MESA AIRPORT (ALBUQUERQUE)-Surplus Acft Sales Center - parked acft.

NEW YORK

ALBANY AIRPORT-Equip. on fld intermittently. (6-20)

**ATHENS SEAPLANE BASE-New base. Adj E. (9-5) See page 144.

**BUFFALO ARPT-10' glide path bldg and 30' mast lctd 400' N side NE/SW rnwy, 600' NW of intersection NW/SE and NE/SW rnwys. 10' inst landing sys antenna bldg lctd 450' SW end NE/SW rnwy. Inst landing sys trans bldg lctd 275' SE of antenna bldg. All bldgs properly marked. Acft entering and departing Buffalo traffic zone use ctn-new arpt 4000' NNE. (7-31)

CHEMUNG CO. ARPT (ELMIRA)-Gliding and soaring activity over fld and vcnty. Lgts on req. Traffic gun displayed in front of main hangar during air carrier opers to control local traffic and at other times when circumstances make such practices consistent with safety. Equip. N and W of N/S rnwy days. (7-2)

CHEMUNG VALLEY ARPT (WAVERLY)-Right traffic when taking off or landing to the W and N. (9-20)

CLASON'S POINT-RADIO: About Oct 2, range will be comm at lat 40-49-11, long. 73-50-33. Freq 209 kcs, ident "LG" Bear. and dist, stn to LaGuardia Fld: 222°, 3.2 mi. Courses will be 42°,129°,222°,273°. Stn class will be: SBRAZ-VDT. VHF voice fac will transmit on 116.1 mcs. Stn will guard 3105, 4495,6210,3117.5 kcs, 116.1 mcs. The Clason's Point LFM will not be decomm as previously advertised. An FM will be comm at New Rochelle, N.Y. at lat 40-54-17, long. 73-47-19, on the NE course of the new Clason's Point Range soon. Bear. and dist, range to FM: 42°, 5.6 mi. Ident one dash (-); on the same date FMK will be comm at the New Rochelle, N.Y. FM site on 275 kcs, ident "N" (- .). Note: See "New York-Special Notice-Radio". (9-13)

FLOYD BENNETT FLD NAS (NEW YORK)-RADIO: Soon Navy range freq will be changed to 440 kcs. (9-12) FLD: Closed 1700 to 0800. (8-15)

FORT PLAIN (Site 40A, Cleveland-Albany)-Unsafe heavy acft (soft). SE 700' NW/SE strip unsafe all acft, marked. (4-4)

GLOVE CITY ARPT (GLOVERSVILLE)-Right traffic pattern except when taking-off or landing to E. NE corner fld unusable, soft area marked. Closed to all acft above 250 horse pwr. (7-3)

HILTON ARPT-Use rnwys, taxi strips only, bal fld closed. (4-1)

HYLAN FLD (ROCHESTER)-Use strips only - caution when wet. (5-18)

IDLEWILD ARPT-Not yet opened (const). (9-9)

ITHACA ARPT-Right traffic pattern in use. (8-3)

KINGSTON-ULSTER ARPT (KINGSTON)-ESE/WNW strip closed. (3-20)

LA GUARDIA FLD (NEW YORK)-RADIO: Soon the outer marker of CAA ILS will be relctd at lat 40-42-54, long. 73-55-50 on the SW course of the new Clason's Point Range lctd 4.4 mi SW of SW end NE/SW rnwy. Same date outer compass locator stn (lctd at new outer marker site) will be comm. Freq 317 kcs, ident "O" (- - -). Note: See "New York-Special Notice-Radio". (9-13) FLD: ARMY ACFT HAVING OFF. BUS. WITH HQ ATLANTIC DIV ATC, FT. TOTTEN, N.Y. SHOULD LAND AT MITCHEL FLD AND USE ATC OPER FACS THAT POINT. CLOSED TO ALL NAVAL ACFT EXCEPT THE FOLIOWING BECAUSE OF HEAVY TRAFFIC AND INSUFFICIENT SVCG FACS: Acft containing personnel on off. bus. or with Cmdr Eastern Sea Frontier or Hdqs 3rd Naval Dist when RON or refueling services not required. Acft containing officers of flag rank shall not be forbidden fld. TRANS NAVY ACFT USE NAS, FLOYD BENNETT. Army temp inactive-civil. facs. Equip. between NW/SE rnwy and ramps N of Hangars 2 and 4. Pilots of all mil acft upon arrival check in base oper office and contact AFS fld ext 285. 10' high, 40' long obst 190' N of NE/SW rnwy, lgtd. Dump trucks outer edges fld days, clear of all rnwys. Obst lgts atop lclzr shack approach end Rnwy 22 and end Rnwy 4. 70' lgtd boom 4000' SE of NW/SE rnwy. 20' lgtd bldgs 300' E of NE end NE/SW rnwy. NE 1300' Rnwy 22 rough. (9-6)

NEW YORK-Continued

MacARTHUR FLD (ISLIP)-RADIO: Priv twr operating on 278 kcs. Guards 3105 kcs. Operates 0900 to 1700, week days, can provide ngt and Sun service upon req if important. (2-7) FLD: Mobile inst landing units 20' high on all rnwys 500' from rnwy center line, lgtd ngts. Acft use ctn-unconventional flight test oper. (5-23)

MALONE-DUFORT ARPT (MALONE)-Land on rnwys or grass along side of rnwys. Taxi on hard surface. (7-26)

MASSENA-156' twr Radio Stn WMSA lctd 232°, 3.0 mi SW temp lgtd with red lgts on top. Upon completion lighting facs will consist of 300 mm flash. beacon atop and four side lgts; two at 1/3 level, 2 at 2/3 level. (9-9)

MASSENA ARPT-Use rnwys, taxi strips only - turf rough. (6-11)

MITCHEL FLD (HEMPSTEAD)-RADIO: Army ILS (CAA type) temp inop. (7-31) FLD: Rnwy 18-36 closed. (7-17)

MONTGOMERY FLD (U. S. MILITARY ACADEMY NO. 1) (MONTGOMERY)-CLOSED. (11-7)

NASSAU ARPT (HEMPSTEAD)-Fld not maintained. (6-28)

NEW YORK-SPECIAL NOTICE-RADIO: Soon the Clason's Point Range, the New Rochelle, N.Y. FM and FMK, and the outer marker and outer compass lctr stn on the CAA ILS at LaGuardia Fld will be comm on a temp basis operating only when LaGuardia Fld weather is ceiling unlimited and visibility ten mi or more to permit pilot familiarization with the new holding patterns and approach procedures which will be published at a later date in the "Airman's Guide" when fully developed and accepted. At this time, the present LaGuardia range, the Clason's Point LFM, and the present outer marker on the CAA ILS at La Guardia Fld will be decomm and the new facs mentioned above will be comm on a full-time basis. (9-13)

NEW YORK-RADIO: The New York Radio Range will not be decomm at previously advertised. Note: See "New York-Special Notice-Radio". (9-13)

NEW YORK CITY-See Special Notice "Restriction on Flight of AAF acft in New York City Area".

NIAGARA FALLS ARPT-Use rnwys, taxi strips only-soft spots along edges new E/W rnwy, mrkd days. Grass area S of mid E/W rnwy and E of N/S rnwy closed (tall stakes being driven into sod). Army acft rstd from refueling except in extreme emerg. NW/SE rnwy closed. Bndry, obst, wind sock and rnwy lgts avail. 2300 to 0700. (9-20)

**PLATTSBURG ARPT (Old)-1 mi N. ABANDONED. (9-13)

PULASKI ARPT-Under const. Landing area being extended in all directions. (8-7)

REPUBLIC FLD (FARMINGDALE)-RADIO: Priv twr operating on 371 kcs. Guards 3105,4495,6210 kcs. Operates days only. (2-15)

ROCHESTER ARPT-Use rnwys only (soft). No hangar space. Equip. on fld days. (5-19)

★ROME AAF-RADIO: AACS, ground to air stn now operates cont on 4765 kcs voice, 2796 kcs CW. (9-27) FLD: Traffic alt 1500' MSL. Right traffic pattern. (7-15)

SALAMANCA ARPT-Right traffic pattern when taking off to the W. (5-7)

SARANAC LAKE ARPT-Use rnwys, taxi strips only - turf rough. (6-5)

SCHENECTADY COUNTY ARPT (SCHENECTADY)-Use rnwys only - turf areas soft. Equip on N end fld. Trucks crossing NW/SE, N/S rnwys, adj taxiways. (8-7)

SCHOHARIE COUNTY ARPT (RICHMONDVILLE)-Right traffic pattern in use. (1-25)

SHERIDAN ARPT (WILLIAMSVILLE)-E/W rnwy under const. NE/SW avail. with caution. (5-21)

★STEPHENTOWN-RADIO: FM on NW course of Westfield, Mass range decomm Sept 30. FM to be relctd on E course of Albany, N.Y. range.

STEWART FLD (NEWBURGH)-Pilots unfamiliar with Stewart Fld let-down procedure will not be cleared this fld under actual inst conditions. Final approach under these conditions will be made on SW leg Stewart Fld range only. (8-5)

NEW YORK-Continued

SYRACUSE ARPT-Turf areas soft after heavy rains. (9-10)
TONAWANDA ARPT-NE/SW strip rough. Acft may land on either side of rnwy. (6-11)
UTICA ARPT-62' mast rdo stn WIBX-FM; lctd atop Smith Hill 12 mi SE, lgtd. (9-23)
WALKILL FLD (U. S. MILITARY ACADEMY NO. 2) (WALKILL)-CLOSED. (11-7)
WATERTOWN ARPT-Lgts being installed. Land, taxi with ctn. Holes along rnwy edges. (8-1)
WESTCHESTER ARPT INC (ARMONK)-Const, tree removal equip on fld. (8-16)
WESTCHESTER COUNTY ARPT (WHITE PLAINS)-Const. Excavation equip SW end NE/SW rnwy. Lgts inop due to repairs. 3 unlgtd 40' masts being erected off bndrys of fld approx 1000' SE of intersection of N/S and E/W rnwys. (6-14)
WINDDALE ARPT-Fld rough. Lgt acft only. (3-21)

NORTH CAROLINA

ASHEVILLE-HENDERSONVILLE ARPT (ASHEVILLE)-No ctc lgts installed on NW/SE rnwy, approach all rnwys with ctn, equip on fld. No radio facs. (1-7)
ATLANTIC MCAAF-Use in emerg only (caretaker status - no facs).
BALLOON FLD NO. 1 (FORT BRAGG)-CLOSED. (12-20)
BOGUE MCAAF-Closed to all acft except in emerg (no facs). (7-11)
BROOKS ARPT (RED SPRINGS)-NW/SE strip soft, rough. (6-6)
BURLINGTON ARPT-CLOSED (equip.). (5-23)
CANNON ARPT (CHARLOTTE)-Surplus Acft Sales Center - parked acft.
CHERRY POINT MCAS-Const, equip on rnwys. Rnwy lgts being repaired. (7-17)
DOUGLAS ARPT (CHARLOTTE)-Army temp inactive-civil. facs.
EDENTON NAS-Use in emerg only (caretaker status - no facs).
ELIZABETH CITY CGAS-Stay on rnwys-shoulders soft, rough. Closed ngts from 1930 to 0730 except on prior req. All fld lgts inop. (9-13)
ELKIN ARPT-Under const. (4-23)
FAIRCHILD-CIVIL ARPT (BURLINGTON)-Use rnwys, taxi strip only. No fld facs. (3-29)
FORT BRAGG-Heavy firing is being conducted in all sections of Fort Bragg danger area up to 20,000'. All acft must avoid this area shown on Flight Planning Chart 55, herein.
FORT BRAGG-Inten train. days with radio control target planes from fld 6 mi due E of N end Pope Fld. Acft will operate within circle of 4 mi radius from center of fld with max alt of 2000' taking off by catapult, landing by parachute.
GREENSBORO-HIGH POINT ARPT (GREENSBORO)-Both sides Rnwy 32 to intersection soft, rutted. Use rnwys only. (9-9)
★MANTEO-RADIO: Navy FM comm Sept 23, at lat 35-55-20, long. 75-42-00. See page 112.
MORGANTON ARPT-Soon arpt will be closed to all acft - use Riverside Arpt. (4-26)
POPE FLD (FORT BRAGG)-CLOSED TO LIAISON TYPE ACFT WITHOUT TWO-WAY RADIO - USE MIX STRIP 2 MI N, AT FORT BRAGG. Svcg avail. that fld. Heavy glider traffic. Equip. on fld days. 73, 100 oct avail. (8-26)
RALEIGH-DURHAM ARPT (RALEIGH)-ILS and transmitter bldgs 900' from NE end NE/SW rnwy. Glide path unit 400' S center line and 900' S of SW end NE/SW rnwy. Approach lgts 75' N of S end NE/SW rnwy and extending 1500' from end of rnwy. All obsts mrkd. (7-31)
SEYMOUR-JOHNSON FLD (GOLDSBORO)-Use rnwys only - shoulders soft. Temp inactive. No facs. (See Special Notice re use).
SMITH REYNOLDS ARPT (WINSTON SALEM)-RADIO: Soon CAA twr will guard 3105, 4495,6210,3117.5 kcs, 118.3,126.18,131.9 mcs. (9-6)

NORTH CAROLINA-Continued

★WEEKSVILLE NAF-LTA-RADIO: Courses aligned by ground check only. (9-19) Navy range freq changed to 524 kcs. FLD: Avail. HTA and LTA acft daylgt hrs; ngts by prior tlfo arrangement or in emerg. (9-3)

NORTH DAKOTA

BISMARCK ARPT-Use rnwys only. Equip. on fld, resurfacing rnwys, Army acft rstd from refueling except in extreme emerg. Crash and fire fighting equip. avail. 0800 to 1900 only. (9-16)
CHANDLER ARPT (WILLISTON)-Use strips only,. bal fld rough. (3-10)
DICKINSON-RADIO: Moderate multiples E course, lgt multiples other courses.
DICKINSON MUN. ARPT-Equip. on fld. (7-22)
FARGO ARPT-HECTOR FLD (FARGO)-Equip. on fld. Tetrahedron flash. lgts indicates weather below CFR minimums. Bcn will operate only during hrs of darkness. (9-12)
GRAND FORKS ARPT-Use rnwys, taxi strips only. Shoulders soft. Equip. on fld. 50' const booms adj to NE corner fld, lgtd ngts. (8-27)
VALLEY CITY ARPT-SITE 71, HELENA-TWIN CITIES-CLOSED (const). Course lgts changed to red. Bndry lgts discont. (7-29)

OHIO

AKRON ARPT-Surplus Acft Sales Center-parked acft. Use rnwys only. Equip. on fld days. Trans pilots must register in Admin Bldg on arvl and dptr. Ltd svcg facs only. (5-27)
BRECKLING AIR SERVICE (CLEVELAND)-Large ramp under const. (7-24)
BRICKER FLD (BOWLING GREEN)-Use right traffic when landing or taking off to N, W and SW. (7-17)
BROOKFIELD ARPT-Avail. lgt acft only. Use E/W strip. N/S strip under const. (4-21)
BRYAN-DEFIANCE MEMORIAL ARPT (DEFIANCE)-Use E/W rnwy only, bal fld and rnwys under const. (7-3)
CEDAR LANE ARPT (KENTON)-Use strips only. (6-26)
CHERRY FORK (Site 4, Cincinnati-Washington)-Unlgtd 30' pwr line 500' N of N/S strip. (8-3)
CINCINNATI ARPT, INC. (SHARONVILLE)-Taking off to W, SW, S use right traffic pattern. (5-1)
CLEVELAND ARPT-Trans pilots must register in Terminal Bldg upon arvl and dptr. Landing fee on all civil. multi-engine acft. Rnwy 9-27 closed (const). Parts of mat under const. (9-27)
CLINTON COUNTY AAF (WILMINGTON)-Rnwy lgts avail. on one hrs notice. For flight thru danger area, permission must be obtained from Cincinnati Airway traffic control center upon entering or prior to departure from ATC area. Inten inst train. being conducted - for danger area description see Wilmington, Ohio. (7-8)
COMMAUT ARPT-Use mowed strips only. (6-4)
DAYTON ARPT-Use rnwys only. Equip. on fld. Approach lgt lane under const for approx 1500' off SW end Rnwy 6-24R. Consists of poles graduated up to 32' in height. (9-26)
FINDLAY ARPT-Green rnwy lgts removed from NW end NW/SE rnwy due to const of new 30' hangar NW corner fld adj to CAA bldg. (6-5)
GRIESER ARPT (WAUSEON)-Use strips only. (7-3)
GRIMES FLD (URBANA)-Use strips only. Land according to wind tee lctd in center of fld. (5-27)
HAYESVILLE (Site 27, Louisville-Cleveland)-Unlgtd 80' twr 1500' S. (8-4)
LANSDOWNE ARPT (GREENVILLE)-Equip. on fld intmtly. (8-12)
LIMA ARPT-1320' of the E portion of fld avail. in emerg only - under cultivation. (7-26)
LOCKBOURNE AAB (COLUMBUS)-RADIO: Loizr of Army ILS (CAA type inop for indef. period. (6-21) FLD: Use rnwys, taxi strips only - shoulders soft. (4-29)

LOST NATION ARPT (WILLOUGHBY)-Const. Pilots use rnwys indicated by wind sock and tetrahedron lctd S side arpt. (7-9)
LUNKEN AIRPORT (CINCINNATI)-Fast landing acft use caution. Slightly rolling section Rnwy 6-24. Army facs ltd. Crash and fire fighting equip. 0800 to 1700 Mon thru Fri. only. (9-27)
MANSFIELD ARPT-RADIO: Priv. twr and low-powered range (localiser) operate on req or for training. Freq. 269 kc, ident. "IV". FLD: Equip.on fld (const) (8-12)
MARION ARPT-Use only NE/SW, NW/SE rnwys W side fld. NE/SW, NW/SE strips extend into cultivated area W end of fld. (6-4)
MATHER ARPT (CLEVELAND)-Closed to trans acft except on special permission. Const on 1000' NW/SE, 1100' NE/SW rnwys. (8-22)
McKINLEY ARPT (CANTON)-330' twr Radio Stn WCMW being erected 5 mi NNW (285°) true. (6-9)
MEDINA PRICHARD ARPT (MEDINA)-NE/SW strip under const. (10-1)
MIDDLETOWN ARPT-Right traffic pattern taking off to S, SW, and W.
NORWALK ARPT-Ditch N end N/S strip adj to side of road. (7-26)
OHIO STATE UNIVERSITY ARPT (COLUMBUS)-Const. Trans use rnwys only. (9-17)
OHIO UNIVERSITY ARPT (ATHENS)-3' ditch W end fld. (5-18)
PARKS WATSON ARPT (CINCINNATI)-Right traffic pattern in take-offs to E,NE,SE. (4-2)
PATTERSON FLD (FAIRFIELD)-RADIO: Glide path of Army ILS (SCS-51) unreliable for ceilings under 100'. (7-1). Army OCA sys temp deactivated. (8-16)
PAULDING COUNTY ARPT (PAULDING)-Soft when wet, land at own discretion. (6-7)
PORT COLUMBUS ARPT-NAS (COLUMBUS)-Rnwys and taxi strips being resurfaced, all areas marked. NW/SE rnwy except at intersection first rnwy closed. 10' bldgs being erected: 400' E of E end of E/W rnwy and on center line of E/W rnwy; 400' E of E end E/W rnwy and 250' S of center line E/W rnwy; 750' E of W end of E/W rnwy and 400' S of center line of E/W rnwy. 18" trenches being dug: on SW side NW/SE rnwy from Admin Bldg to NW end NW/SE rnwy; from Admin. Bldg to just W and parallel to Navy opers area terminating at bldg location 400' E of E end of E/W rnwy, marked. Neon approach lgts being erected 85' N of center line of E/W rnwy and from W end of E/W rnwy to approx 1500' W. (7-16)
SULLIVANT AVENUE ARPT (COLUMBUS)-W end E/W strip being extended 900'; S end N/S strip 1000'; SE end NW/SE strip 800'. These extensions are under const and unsafe. (6-14)
**TAYLORCRAFT ARPT (ALLIANCE)-Twrs Rdo Stn WFAH, lctd 4 mi SSW (200°) true, erected and properly obst lgtd. (9-9). No radio. Left traffic 800' pattern Student train. and test flying. Land acrdg to wind tee atop NE corner of hangar. Use rnwys only. Unlgtd bldg entire S bndry fld. Trans pilots must register in Opers Office upon arvl and dptr. (8-23).
TWIN CITIES ARPT (GALLIPOLIS)-Use in emerg only. Cattle on fld. (7-3)
WARD ARPT (BEDFORD)-NE/SW, NW/SE strips rough. (7-3)
WILLARD ARPT-Avoid center section of N/S strip (soft)(6-19)
WILMINGTON-Experimental flying is being conducted within the following described area: beginning at lat. 39-41, long. 83-01-30; S to lat. 38-48-40, long. 83-02-30; NW to lat. 39-11-20; long. 84-00; N to lat. 39-42-10, long. 84-00; E to point of beginning. This area should be avoided at all times.
WRIGHT FIELD (DAYTON)-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON AUTHORIZED OFF. BUS. THIS STA OR IN EMERG. AND TO ALL TRANS NAVAL ACFT. ALL OTHER ARMY ACFT AND TRANS NAVAL ACFT USE PATTERSON FLD. No svcg 2400 to 0730. Sod area closed. Rnwy, taxiway shoulders soft. Exten exper and training flights (3-23)
WYNKOOP ARPK (MT. VERNON)-Under const. (6-20)
YOUNGSTOWN ARPT-Use rnwys only. Equip. on fld. (6-22)
ZANESVILLE ARPT-Use rnwys, taxi strips only-newly seeded areas. Tetrahedron ngts on req only. Rnwy in use lgtd continuously. (6-20)

ALTUS MUN. ARPT-Avail. only for delivery surplus mil acft or in emerg. Equip. on and near N/S rnwy. (12-13)
ARDMORE ARPT-Being used by AAF Avail. trans acft in emerg. only. No fuel or svcg avail. trans acft-use Ardmore Arpt, Site 10, Ft. Worth-Wichita. Inten contact and inst training in progress. (9-13)
BETHANY ARPT (OKLAHOMA CITY)-Use rnwys only. (6-6)
CHICKASHA FLD-CLOSED - under supervision Defense Plant Corp. (8-4)
CIMARRON FLD (YUKON)-Now a WAA Sales and Storage Center. No svcg, repairs or overngt storage. Planes parked on fld. 4 strips indicated by pylons and markers. Lime markings center of each strip. (5-25)
ENID AAP-RADIO: Army range unreliable. Stn lctn marker reported 15 mi NE of stn. All courses excessively wide. (9-25). These data rcvd too late for danger symbol. FLD: Ltd parking facs. Use rnwys, taxiways only. (5-8)
GARTHOEFFNER COUNTRY CLUB (OKLAHOMA CITY)-Only N/S, NW/SE strips avail.(6-26)
GREAT SALT PLAINS BOMBING RANGE (JET)-Trans acft land at Enid AAP for permission to use this fld, (6-10)
GUTHRIE (Site 21, Ft. Worth-Wichita)-Const. Equip. on fld. Temp N/S strip avail. during const. period. Bndry lgts to be decomm. soon. Green course lgts changed to red. (5-21)
HATBOX FIELD-MUSKOGEE ARPT (MUSKOGEE)-Use rnwys only - parked acft.
LAWTON ARPT-Obst lgts inop. Bndry, flood lgts on req. (7-24)
MAX WESTHEIMER FLD (NORMAN)-Avail. all acft up to 30,000 lbs, days only. Left traffic pattern; lgt acft 800', heavy acft 1000'. Lcl traffic avoid flying over bldgs on N Campus. All traffic avoid flying over corporate limits of Norman unless having vertical clearance of 2000' or more. (7-13)
MUNICIPAL ARPT (BOISE CITY)-Emerg use only. (5-11)
NEWKIRK SKYPARK-NW/SE strip under const. (8-3)
NUCKOLS FLD (OKLAHOMA CITY)-Use rnwys only. (1-14)
PERRY ARPT-Trans mil acft land at Enid AAP for permission to use this fld.(5-8
PONCA CITY ARPT-Obst lgts atop 175' twr 1 mi S inop. (8-27)
POST FLD (LAWTON)-Closed to all except liaison type acft. Ext const. Equip. on entire W half and NW portion fld. Closed ngts. Flash. bcn atop balloon hanger inop. Soft spots. Const on rnwys. (6-14)
ROOSEVELT-RADIO: On or about Oct 15, VHF range will be comm at lat 34-52-00, long. 99-03-48. Freq. 108.7 mcs. Ident. "RQ" (. - . - - . -) Visual courses: 53°, 233°; Aural courses: 143°, 323°. (9-24)
SHAWNEE ARPT-Use rnwys, taxi strips only. (4-20)
TINKER FLD (OKLAHOMA CITY)-RADIO: Army range reported unreliable for orientation and homing. Army DF stn temp inop. FLD: Obsts on sodded area S of NE/SW rnwy. Equip. on Airdrome. (4-25)
★TULSA-RADIO: Sept. 26, NE course realigned to 232°. (9-13) Ground checked only.
TULSA ARPT-Pilots without radio watch twr lctd SE corner fld for lgt singals. Helicopter area parking ramp marked with yellow and white circles with red "H" in center. Use rnwys, taxi strips only. 73, 100 oct. avail. Crash and fire fighting equip. 0800 to 1700 Mon. thru Fri only. (9-25)
WILL ROGERS FLD (OKLAHOMA CITY)-Ditch at approach end Rnwys 30, 35, lgtd.(9-4)
WOODRING FLD (ENID)-Use rnwys only. (8-5)

BAKER ARPT-Use rnwys only. Equip. on fld days. Erecting 25' unlgtd bldgs adj to and outside bndry lgts-700' E of N/S, 700' S of E/W rnwys. (9-14)
★COTTAGE GROVE-RADIO: CAA FM comm Sept. 24 at lat 43-45-30, long.123-06-12. See page 20.
EUGENE-RADIO: All courses have multiples. (7-30)
EUGENE ARPK-N/S rnwy closed-to be used as taxiway only. (9-13)
GRANTS PASS ARPT-Ctn when wet. Traffic lands to N, takes off to S-steep grade. (6-5)

MADRAS ARPT-Closed to all civil flying. Acft landing this fld may be detained. (9-13)
MAHLON SWEET FLD (EUGENE)-Equip. on fld. Use rnwys only. Lclzr antenna S of S end N/S rnwy, transmitter bldg 300' E of antenna, glide path bldg 400' W of centerline N/S rnwy, 750' S of N end, unlgtd. (8-30)
MEDFORD-RADIO: All courses have multiples.
MEDFORD AAF-RADIO: Soon, CAA twr will guard 3105,4495,6210,3117.5 kcs, 126.18,131.9,118.7 mcs. (9-12) CW freqs of AACS, ground to air stn temp inop. (9-6). FLD: Gas, ltd svcg avail. (9-19). Use rnwys, taxi strips only. Tetrahedron controllable from twr until wind reaches velocity of 10 miles per hour. No boundary or flood lights. No Army opers or svcg 2000 to 0600. (7-3).
MEDFORD AIRPARK-Soon, will be permanently closed. (9-24)
PENDLETON-RADIO: All courses have multiples with signal fades and surges.
PORTLAND-RADIO: Stevenson, Wash. FM commissioning delayed indefinitely.(7-4)
PORTLAND AAB-East N/S rnwy avail. taxiing only. Flash. lgts on tetrahedron indicates suspension CFR flights. 100 oct, ltd 73 oct avail. Ltd JP-1 fuel avail. (8-10)
ROSEBURG (Site 41A, San Francisco-Seattle)-Unlgtd 100' pole 1200' S, 300' E of S bndry. (8-20)
THE DALLES-RADIO: All courses have multiples with signal fades and surges.
TILLAMOOK NAS-RADIO: Navy range temp inop. (7-19)
TROUTDALE AIRPORT-Surplus Acft Sales Center - parked acft.

PENNSYLVANIA

ALBERT AIRPORT (PHILIPSBURG)-Const S end N/S strip. (5-31)
ALLENTOWN-BETHLEHEM AIRPORT (ALLENTOWN)-Areas off rnwys soft in wet weather. Floodlgts Rnwys 9, 14, 18 inop. (5-18)
ALTOONA-BLAIR COUNTY ARPT-SITE 24A, CO-PG-Use rnwys only. (8-13)
BARRETT AIRPORT (CANADENSIS)-CLOSED (const). (6-11)
BEAVER FALLS AIRPORT-Patterson Heights Arpt, 1.5 mi S Beaver Falls is not under const, entirely avail. New fld, Beaver Falls Arpt, closed (under const and soft). (3-30)
BLOOMSBURG ARPT-Temp too soft for use (recent floods). (6-1)
BUTLER-ALAMEDA AIRPORT (BUTLER)-Pilots avoid hospital area adj arpt. Use right traffic pattern on W take-off. (7-9)
CARLISLE AIRPORT-NW/SE strip under const. Use NNE/WSW strip only. (6-11)
CECIL-RADIO: Visual and aural FM signals reported in Vicinity of Imperial, Pa. (7-17). Compass locator stn temp inop. (9-13)
CHAMBERSBURG-High explosives being discharged approx 7 mi NW thru Feb 5, 1947 daily Mon thru Sat 0800 to 1700 within the following area: N bndry lat 40-01; S lat 39-59-30; E long. 77-47; W long. 77-49. (8-3)
CHEMUNG VALLEY ARPT (ATHENS)-500' extension E end E/W strip under const.(5-31)
CUB HAVEN ARPT (LOCK HAVEN)-Use rnwys only. (8-13)
DALEVILLE ARPT-Use right hand traffic pattern on E take off. (8-22)
EAST SCRANTON ARPT (SCRANTON)-Emerg use only. (5-28)
GREATER PITTSBURGH ARPT (PITTSBURGH)-Use rnwys only-shoulders soft. CFR plans only. Ltd Army facs. No 91 oct. No sto. First 500' of Rnwy 23 closed (const). Equip. on fld. (8-5)
HARRISBURG STATE AIRPORT (HARRISBURG)-Use rnwys only. Do not use lock-wheel turns at ends of rnwys. (6-28)
**HERSHEY AIR PARK (HERSHEY)-Name changed to Hershey Arpt. Correct letns lat 40-17-30, long. 76-39-30. See page 76.
JOHNSTOWN AIRPORT-Use rnwys only. (7-1)

JOHNSVILLE AIRPORT-RADIO: Navy twr temp inop on Sun. (4-26)
KAISER FIELD (BRISTOL)-Rnwy shoulders soft, unsafe for heavy acft during wet weather. Use rnwys only. (5-27)
LANCASTER ARPT-Drain-pipe on both sides NW/SE strip, mrkd, stay between red flags. Sinkhole extreme E end E/W strip; 2 holes S end N/S strip, mrkd. (6-27)
MILLBROOK-RADIO: VHF range temp shut down. (5-10)
MT. POCONO AIRPORT-SITE 21, BUFFALO-NEW YORK-Shoulders NE/SW rnwy rough, not graded. Hazardous ruts along S side NW/SE rnwy. Use rnwys only. (5-22)
MOUNT UNION ARPT-Use strips, taxiways only. Use rnwys only in wet weather-strips unsafe (rough). (6-28)
MUSTIN FLD NAAS (PHILADELPHIA)-Avail. ngts to pilots familiar with fld and surrounding obsts. Others and pilots of transport planes over 9000 lbs use Philadelphia Southwest Arpt for ngt landings and take-offs. Closed to acft 50,000 lbs or over. Left traffic pattern at 1000'. (8-5)
OLMSTED FIELD (MIDDLETOWN)-Ngt landings hazardous. Obsts adj fld. 81' high tension wires across approach zones Rnwys 29, 14. Lgtd obsts between Rnwys 29, 32, approx 1000' from rnwys. Two 150' obsts right of Rnwy 29, lgtd. Ridges to WSW, NNE 300 to 700' higher than fld. Closed to B-29 opers. (4-10)
PARKER CRAMER AIRPORT (CLARION)-CLOSED (const). (5-24)
PHILADELPHIA NORTHEAST ARPT (PHILADELPHIA)-Avail. radio-equipped acft. Use rnwys only. Equip. on fld intmtly days. (8-16)
PHILADELPHIA SOUTHWEST ARPT (PHILADELPHIA)-Closed to non-radio-equipped acft except in emerg. Const on fld. Use rnwys only. Use stn in taxiing. NW/SE rnwy closed (const). Floodlgts on Rnwy 17 inop. (9-26)
PHILIPSBURG-RADIO: About Oct 7, NW course will be realigned to 165°. (9-20)
PITTSBURGH-ALLEGHENY COUNTY ARPT (PITTSBURGH)-Army acft use in emerg only or on written orders. Use Greater Pittsburgh Arpt. Outgoing AAF flights clear thru AAF Flight Service. N/S rnwy closed. Equip. on fld, mrkd. Closed to non-radio-equipped acft. (7-15)
PITTSBURGH-CURTIS ARPT (PITTSBURGH)-Right traffic on NE and NW rnwys. (6-4)
PITTSBURGH-BUTLER AIRPORT (BUTLER)-Land in accordance with wind tee. Wind cone atop hangar for wind direction only. (7-24)
PUNXSUTAWNEY AIRPORT-WNW end NNE/WNW strip closed. (8-5)
READING AIRPORT-Ridges S and E within ½ mi of fld up to 1200' MSL. Equip. on fld days. (3-30). Right traffic pattern on Rnwys 13 and 18. (6-11)
SUNBURY ARPT-Temp too soft for use (recent floods). (6-1)
VALLEY FORGE AIRPORT (NORRISTOWN)-E/W, NE/SW strips avail. NW/SE under const On take-offs to and landings from E or NE use right traffic temp; on W or SW use left traffic. (5-29)
VANDERGRIFT ARPT-Being repaired - use only center of strips. (4-25)
WILKES-BARRE-WYOMING VALLEY AIRPORT (WILKES-BARRE)-Use rnwys only. Closed ngts - all lgts inop. (8-2).
WILLIAMSPORT-RADIO: Courses aligned by ground check only. (9-15)
WILLIAMSPORT AIRPORT-Closed ngts. Lgts avail. emerg landings only. (6-22)
WILLOW GROVE NAS-Closed ngts. Equip. sides all rnwys days-lgts being installed. IFR inbound flights will be accepted daylgt hrs but no IFR outbound flights may be made. (9-16).
WINGS FLD (AMBLER)-NW/SE rnwy unusable (plowed up). Hangar const S side fld. Fld being graded, mrkd days. (9-14)

RHODE ISLAND

CHARLESTOWN NAAS-Const. Low Alt formation break-up. Use otn below 1000' Alts Equip on Rnwy 4-22.
GREENE, THEODORE FRANCIS, AIRPORT (PROVIDENCE)-Use rnwys only. Turf channels avail. local instruction purposes only. (5-25)

SOUTH CAROLINA

**CHARLESTON ARPT-Navy opers removed. (8-28) Lgtd bldg under const in sodded area between NW/SE rnwy and taxi strip 1500' S on NE end Rnwy and 325' from edge. 10' antenna shelter 45' long being erected on center line 1200' from SE end NW/SE rnwy, mrkd. Use rnwys only. Army temp inactive-civil. facs. (9-23)
CLARK FIELD (CHARLESTON)-Strips rough. (4-19)
FLORENCE ARPT-Closed sunset-sunrise (beacon, rnwy, obst lgts inop.)(7-12)
GEORGETOWN COUNTY ARPT (GEORGETOWN)-Equip on rnwy shoulders. Beacon inop. (3-10)
GREENVILLE ARPT-Bndry lgts E, SE fld inop. (9-24)
GREENVILLE AAB-Only 73,100 oct. No maintenance facs 1700 Fri thru 0800 Mon. Wind tee rmvd. Tetrahedron lgts inop. Non-radio equipped acft watch twr for landing direction. (9-24)
★LEXINGTON CO. ARPT (COLUMBIA)-RADIO: CAA twr comm Sept 23. See page 132. FLD: Army temp inactive-no facs.
MEMORIAL ARPT (SPARTANBURG)-Use rnwys, taxi strips only. Ctc lgts inop.(7-19
MYRTLE BEACH AAF-Inst train. at 1000 to 5000' alts 50 mi radius during IFR. (6-19)
NORTH AIRPORT-Temp inactive. No facs. (See Special Notice re use).
OWENS FIELD (COLUMBIA)-RADIO: Soon DT fac of CAA range will be relocated at Lexington County Arpt. (6-16) FLD: Use rnwys only. Req pilots avoid pivoting acft on NW end NW/SE rnwy. Small acft parked on ramp front Admin Bldg, marked. (8-14)
★PARRIS ISLAND MCAS-RADIO: Navy range deccom Oct. 1. FLD: Use in emeg only (caretaker status - no facs).
WOODWARD FLD (CAMDEN)-RFC planes parked entire fld off rnwys. Use rnwys, taxi strips only.No facs for closing flight plans other than tlfc. Flight plans should be closed by radio with Shaw Fld twr before landing. Closed ngts. (1-10)

SOUTH DAKOTA

ANDERSON ARPT (MITCHELL)-Use strips only. (5-7)
BELLEFFOURCHE ARPT-SE end NW/SE strip rough. Avoid S end N/S strip beyond intersection of E/W strip. Loose gravel around new hangars and taxi strip leading to NW/SE strip. All strips soft when wet. (8-5)
BIEDENFELT FLD (FAULKTON)-Hay stacks on fld.
BROOKINGS AIRPORT-Use strips only - fld soft in wet weather. (8-5)
PIERRE AIRPORT-Tetrahedron unreliable. (6-18)
PLATTE ARPT-Use strips only.
RAPID CITY AAB-RADIO: Army ILS (SCS-51) temp suspended. AACS, ground to air sta.,inop on all freqs. (6-10) FLD: Obst lgts on hills N and NW and hills 4 mi S inop. (9-10)
SIOUX FALLS ARPT-Use rnwys only. Tetrahedron rmvd. (9-2)
WATERTOWN COMMERCIAL ARPT-Use in emerg only-no facs. (9-11)
**W.W. HOWES ARPT (HURON)-Fld in (P) category and avail to mil acft.(10-1) Closed to all acft exceeding 25,500 lbs. Blinding 30 million candle pwr ceilometer 1000' NW bcn. (9-27)

TENNESSEE

**BEACHVILLE,BCN SITE 63, DL-LV-Site deccom for reletn. (9-23)
BERRY FLD (NASHVILLE)-Use rnwys only-rnwy, taxiway shoulders soft. Neon approach sys NW end Rnwy 15-33 completed-being installed S end Rnwy 2L-20R days. (9-11)
CHATTANOOGA ARPT-LOVELL FLD (CHATTANOOGA)-Intmt dynamiting in stone quarry N bndry fld days. Avoid flying over quarry. (9-25)
CORNELIA FORT AIRPARK (NASHVILLE)-Landings and take-offs to S use left hand traffic, to N right hand traffic. (7-24)
CUMBERLAND FLD (NASHVILLE)-Strips under const. (1-26)
EMERY RIDDLE FIELD (UNION CITY)-Use rnwys only - parked acft.
KNOXVILLE-RADIO: Heavy multiples E course.
KNOXVILLE-McGHEE TYSON AIRPORT (KNOXVILLE)-RADIO: Soon CAA twr will guard 3105,4495,6210,3117.5 kcs, 126.18,118.7,131.9 mcs. (9-6)FLD: S taxi strip closed. No parking on ramp front of Admin Bldg any time day or ngt. Army acft rstd from refueling except in extreme emerg. Unlgtd parked acft on ramp NE side Admin Bldg, (9-14)
LEBANON AIRPORT-Soft spots in E/W and NE/SW strips near intersection; avoid using after heavy rains and thaws. (11-26)
McKELLAR AIRPORT (JACKSON)-Use rnwys only - parked acft.
★MEMPHIS ARPT-RADIO: AACS, ground to air stn now operates on 116.1 mcs only. (9-30) FLD: 200' twr lctd 4 mi W. Properly obst lgtd and marked.(9-26) Fld badly eroded. Use rnwys only-shoulders soft. Equip. on fld. Avail private acft equipped with fully operating 2-way radio transmitting on one of the following freqs: 3105, 4495, 6210 kcs. Other acft may land by obtaining previous authorization from CAA inspector. Student instruction in private acft not permitted.Neon approach lgts inop-being relctd.(9-14)
MEMPHIS NAS-CLOSED NOTS EXCEPT IN EMERG.Flight plans should be addressed to "MEMPHIS NAVY". Ngt flying in 5 mi radius up to 2500'. Exten flight opers in 15 mi radius. Traffic left at 1000'. Resurfacing Rnwys, mats. Red rot. bcn indicates IFR. (8-6)
NASHVILLE-RADIO: FM will be comm soon at Mt. Juliet, Tenn. at lat 36-12-00, long. 86-28-35, located 9.6 mi from range sta. Ident will be one dash (-). Bear. and dist, range sta to FM will be: 66°, 9.6 mi. (8-1)
PARSONS (Site 56, Dallas-Louisville)-Soon site will be discont and relctd as soon as possible. (9-10)
SMITHVILLE-RADIO: Severe multiples all courses.
SMYRNA AAF (NASHVILLE)-RADIO: Army ILS temp inop. (6-25) AACS, ground to air stn and DF facs on 4765, 4890 kcs, voice, 2796,5200 kcs CW temp inop. (5-3) FLD: NW/SE rnwy lgts inop. (9-17)
TRI-CITY ARPT-RADIO: About Oct 5, CAA twr will be comm, operating 0800-1800. FLD: Army acft rstd from refueling except in extreme emerg. (9-9)

TEXAS

ABILENE AIR TERMINAL (ABILENE)-E/W rnwy avail. only on permission of control twr. (9-3)
ABILENE AAF-Temp inactive. No facs. (See Special Notice re use).
ALAMO (SAN ANTONIO)-RADIO: Soon scheduled bdcast will be discont on range. Class will be: MLZ-VDT
ALICE-RADIO: Flight checked Sept 28, courses correctly aligned.
AMARILLO AAF-RADIO: AACS, ground to air sta temp inop. (6-25)
ARLEDGE FIELD-MAIN AIRDROME (STAMFORD)-Use rnwys only - parked acft. Sod soft after rain. Wind tee removed. Wind socks on N and S hangars. (6-3)
ARLINGTON (MIDWAY) AIRPORT-All rnwy lgts inop. NE/SW rnwy unsafe;NW/SE rnwy usable with caution. (4-18)
ASHERTON AIRPORT-High brush - use strips with caution. (6-11)
AUSTIN-RADIO: Range flight-checked, courses correctly aligned, break in sta location marked light pattern. (5-23)
AUSTWELL INT, SITE 5A, CR-HU-Unsafe (soft) (9-23)
BERGSTROM FIELD (AUSTIN)-RADIO: Army ILS (SCS-51)temp inop.(6-25)FLD: Rnwys NE/SW, 13L-31R, 8-26 closed. (8-7)

TEXAS-Continued

BIGGS FLD (EL PASO)-RADIO: Army ILS (CAA type) temp inop. (5-16) FLD: Const on rnwys. Army acft with destination White Sands Prving Grds clear thru Biggs Fld. Dirt landing strip at old fld closed for resurfacing. Five 90' twrs under const 2000' E of N/S rnwy, lgtd. (9-27)
BROWNSVILLE-RADIO: 3105, 3117.5, 4495, 6210 kc receivers unreliable. 116.1 mc transmitter and receiver temp inop. (9-23)
BRUCE FLD (BALLINGER)-Use rnwys only-parked acft
BRYAN AAF-Temp inactive-no facs. (See Special Notice re use).
BYRN'S SKY RANCH (HILLSBORO)-New fld. Lat 32-03-45, long. 97-08-45. (9-7). See page 117.
CAMP HOOD LANDING FIELD (KILLEEN)-CLOSED EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. AAF oper facs avail. Lgt opers on previous arrangements. Right traffic to N, left to S overhead approach. N/W rnwy closed. (6-25)
CARTHAGE AIR SERVICE ARPT (CARTHAGE)-N/W strip under const. (5-25)
CHILDRESS-RADIO: Sept 24, VHF range on exper status only comm and flight checked for cont oper at lat 34-22-12, long. 100-17-12, lotd approx 5-1/2 mi SW of Childress. Freq. 109.1 mcs. Ident. "CK" (- . - . - -). Visual courses: 53°, 233°; aural courses: 323°, 143°. (7-25)
CHILDRESS AAF-Temp inactive-no facs. (See Special Notice re use).
CLEVELAND-RADIO: VHF range operating on exper basis at lat 30-15-36, long. 94-58-00. Freq. 109.1 mcs. Ident. "CL" (- . - . . - . .). Visual courses: 15°, 195°; aural courses: 105°, 285°.
CLIFT MAUS FLD (CORPUS CHRISTI)-Use rnwys only during wet weather. (9-12)
COMBOS ARPT-Use in emerg only-no facs.
CORSICANA AIRPORT, mun-UNUSABLE. Acft parked entire fld. (2-6)
COX AAF (PARIS)-Temp inactive-no facs. (See Special Notice re use).
CUERO AIRPORT-In wet weather land as near the ramp as possible. Use ramp only in emerg. Center portion fld soft in wet weather. No aveg or lgts. Landings should be made within orange cone badrys. Use strips only-parked acft.
ELDORADO AIRPORT-N/W strip soft in wet weather. (10-11)
ELLINGTON FIELD (HOUSTON)-Closed to very heavy bombardment acft except in emerg. Temp inactive. No facs. (See Special Notice re use).
EL PASO MUN. ARPT-ED ANDERSON FLD (EL PASO)-Const 400' to left and 1000' from the approach end Rnwy 22. (5-17)
ENGLISH FIELD (AMARILLO)-RADIO: AACS, ground to air stn oper temp suspended. (2-5) FLD: Use rnwys, taxi strips only. Army temp inactive - civil. facs. (7-26)
FORT WORTH AAF-RADIO: AACS, ground to air stn temp inop. (7-25). FLD: Rnwys 3-21 and N/W closed. 40' trees immediate end Rnwy 35L. (9-16)
GAINESVILLE AAF-Use rnwys only. (6-10)
GASKIN FIELD (SHERMAN)-Use rnwys only.
GIBBS FIELD (FORT STOCKTON)-Use rnwys only-parked acft. Use only in emerg.
GILCHRIST ARPT (WICHITA FALLS)-Strips soft when wet. Pumping well approx 500' from NW end NW/SE strip. Use strips only. (5-22)
GOODFELLOW FLD (SAN ANGELO)-Use rnwys only. Otc Goodfellow Radio 15 mi out in IFR weather. Acft flying E or N on range maintain odd 1000' alts. Acft flying W or S maintain even 1000' alts unless otherwise advised by Goodfellow Radio. Lel inst acft using range. Ltd parking, aveg facs. Inten primary train. Mon thru Fri; trans acft will normally use right traffic. (4-24)
GRANDE PRAIRIE OLF-CLOSED TO ALL TRANS ACFT EXCEPT PTs. Ngt train. within gliding range from sunset to midnt at alts to 2000' above terrain. (7-1)
GRANBURY-RADIO: Range and stn location mrkr to be decomm Oct. 10. (9-26)
Range flight-checked Aug 13, oper unreliable (interference)
GUTHRIE-RADIO: On or about Nov 15, VHF range will be comm at lat 33-46-30, long. 100-20-09. Freq. 108.3 mcs. Ident. "UH". Visual courses: 72°, 252° aural courses: 162°, 342°. (9-26)
HEARNE (Site 15, Galveston-Waco)-Ban inop. (5-16)
HENSLEY FIELD (DALLAS)-Lgt acft operating at 500' pattern alts. (7-31)
HICKS FIELD (FORT WORTH)-Use strips only-parked acft. (4-25)
HITCHCOCK MAP-LRA-RADIO: 6390 kc transmitter and receiver temp inop. (3-12)
HOLMAN ARPT (WICHITA FALLS)-Use strips only. Otc Wichita Falls Radio for ngt landings. (5-12)
HOUSTON AIRPORT-Use rnwys, taxi strips - ditches parallel N/W, N/S, NW/SE rnwys and N/S taxi strip. Equip. on fld. (8-12)
JEFFERSON COUNTY AIRPORT (BEAUMONT)-Closed to trans acft except in extreme emerg. Const equip. on fld. No facs. (6-18)
JUNCTION-RADIO: On or about Dec 1, VHF range will be comm at lat 30-38-00, long. 99-58-43. Freq. 108.7 mcs. Ident. "JT". Visual courses: 128°, 308°; aural courses: 38°, 218°. (9-27)
KELLY FLD (SAN ANTONIO)-Acft on fld. Use rnwys only. 190' lgtd twr const W Rnwy 14-32. (9-17)
LAREDA FIELD-Gov't owned acft parked W half fld. Use rnwys only. (6-6)
LAREDO AAF-Temp inactive-no facs. (See Special Notice re use).
LAUGHLIN FLD (DEL RIO)-Temp inactive. No facs. (See Special Notice re use).
LONE OAK, BEACON SITE 5, DL-LV-Temp discont. (9-18)
LOVE FIELD (DALLAS)-RADIO: Soon, Glide path will be comm on CAA ILS. Transmitter will be located 1100' SE of NW end of NW/SE rnwy and 400' right of rnwy centerline approaching from NW. Freq. will be 335 mcs. Glide path angle: 2-1/2°. (8-19) CAA ILS temp inop (major adjustment). (9-3). FLD: Rnwy 4-22 closed. Soft areas along taxi strips when wet. 30 million candlepwr ceilometer projector 1000' N of control twr. (9-13)
LUBBOCK AAF-Temp inactive. No facs. (See Special Notice re use).
MARFA AAF-Temp inactive. No facs. (See Special Notice re use).
MATAGORDA ISLAND BOMBING AND GUNNERY RANGE (MATAGORDA ISLAND)-Temp inactive, no facs. (See Special Notice re use).
MEACHAM FLD (FORT WORTH)-RADIO: CAA ILS will be comm soon serving N/S rnwy with approach toward S. Mag. heading for landing: 173°. Voice-equipped localizer will operate on 109.9 mcs. Glide path on 333.8 mcs. Two marker beacons: Outer marker 4.09 mi N of N end N/S rnwy, keyed 2 dashes per sec; middle marker 0.7 mi N of N end N/S rnwy, keyed with alternate dots and dashes. (6-4). FLD: Use rnwys, taxi strips only in wet weather. Obst lgts atop 125' smokestack 1/4 mi E, inop. (4-10)
MIDLAND ARPT NO. 2-Crash and fire fighting equip. avail. 0800 to 1900 only. (9-16)
MIDLAND AAF-Temp inactive. No facs. (See Special Notice re use)
MINERAL WELLS ARPT, new-Use rnwys, taxi strips only-graded areas unsafe. (7-15)
CRANES AIRPORT-NE/SW, NW/SE strips under const. Use only N/W strip. Fld flooded after rains. (7-10)
PALESTINE ARPT-Sod areas usable in dry weather. Circle fld for lgts. (4-6)
PAMPA ARPT-Erecting 20' bldg 500' S of N/W strip and 200' W of N/S strip, mrkd. (11-9)
PAMPA AAF-Temp inactive. No facs. (See Special Notice re use).
PERRIN FLD (SHERMAN)-Rnwy 3-21 closed. Acft parked S edge fld. (5-20)
PYOTE AAF-Rnwys 18-36, 7-25 closed. Ltd aveg, maintenance. (6-15)
RANDOLPH FIELD (SAN ANTONIO)-Trans acft use E side fld. (5-16)
RICH FIELD (WACO)-Use strips only (muddy). Small ditch on S end N/S strip (repairs on range lgts). (3922)
RIO GRANDE VALLEY INTERNATIONAL AIRPORT (BROWNSVILLE)-RADIO: Due to temp twr installation max. ETS kw transmitter coverage approx 5 mi radius. (7-16)

RIO GRANDE VALLEY INTERNATIONAL ARPT (BROWNSVILLE)-Rwy 4-22 closed. Use rnwys, taxi strips only. Bldg 300' E, 700' S of N end Rwy 17-35, lgtd. Civil. acft may be cleared thru this arpt for foreign flights. Army acft use Kelly Fld. Portable control twr 40' SW base of old twr. Obst lgts atop 90' antenna poles 3 mi S inop. (8-2)
ROBERT MUELLER ARPT (AUSTIN)-Acft landing or taking-off on Rwy 34 use right traffic pattern. Acft landing or taking-off on other rnwys use left traffic pattern. Rwy 12L-30R closed. Blinding 30 million candlepwr ceilometer 900' N of Admin Bldg. (8-15)
ROCKPORT ARPT-Closed except in emerg. Fire and crash equip. removed.' (8-1)
SAINTILLO, BEACON SITE 9, DL-DV-Temp discont. (9-18)
SAN ANTONIO-Cloud flying on Randolph Fld Radio Range at alts assigned by San Antonio A.T.C. Acft inbound to Randolph Fld or operating in that vicinity under IFR contact Randolph, Alamo or San Antonio Range Stn and adhere to instructions issued by San Antonio A.T.C. Acft outbound from Randolph Fld adhere to instructions issued thru Randolph Twr.
SAN ANTONIO-RADIO: About Oct 5, NW course of "ZN" range will be realigned to 127°. (9-25)
SAN ANTONIO ARPT-ALAMO FLD (SAN ANTONIO)-Ltd svcg. Closed ngts to all civil. acft except scheduled airlines. Equip. S end N/S and SW end NE/SW rnwys. Ditch this area. (7-3)
SAN BENITO INT, SITE 2, JI-FV-Hangar under const 200' NE bcn twr and 200' N Opers Office, mrkd. N and W bndry lgts inop. (9-26)
SAN MARCOS AAF-Caution - helicopter and liaison pilot training. (6-12)
SHEPPARD/KELL MUN. ARPT (WICHITA FALLS)-Army twr to be decomm soon. FLD: N/S rnwy W of fld rstd to acft 200 hp or less. Use rnwys only. Army temp inactive-civil facs. (9-23)
SOUTH PLAINS AAF (LUBBOCK)-Parts of rnwy not visible from control twr due to parked acft. Oper office open 0800 to 2200. Stn storage acft received only between 0800 to 1630 Mon thru Fri. Soft spot approx 1500' S of N/S rnwy. Ltd transportation, no housing and messing facs. (7-26)
STINSON FLD (SAN ANTONIO)-Right traffic on Rnwys 9,14,17,22. Left traffic on all others. Traffic 800' above terrain 1367' MSL. Avail. days only. (9-21)
TAYLOR AIRPORT (ALBANY)-CLOSED (rnwy const). (4-4)
TERRELL, BEACON SITE 6, FV-AG-Temp discont. (9-18)
TEXARKANA-Demolition operations are being conducted approx 15 mi WSW Texarkana Arpt, 0800-1615 daily except Sat and Sun. All acft cautioned to fly above 1500' over this area.
UNIVERSITY ARPT (AUSTIN)-Temp closed - no svcg facs. (9-10)
VICTORY FLD (VERNON)-Use rnwys only (parked acft). Avail. days only. (6-3)
WHITE FLD (BRADY)-CLOSED. (8-7)

UTAH

BRYCE CANYON-RADIO: 116.1 mc transmitter and receiver and 129.7 mc receiver temp inop. (9-17)
DELTA ARPT-Use rnwys only. (6-22)
DUGWAY FLD (TOOELE)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG.
ENTERPRISE INT, SITE 39, LA-SL-Soft, rough-use rnwys only. N 600' N/S rnwy closed. 25' unlgtd bldg under const adj fld 90' N S/E corner. (9-27)
HANKSVILLE-RADIO: Stn unmanned from 2200 to 0600.
HANKSVILLE (Site 54, Los Angeles-Denver)-N/S strip unlgtd. (6-17)
HILL FLD (OGDEN)-RADIO: CW facs of AACS, ground to air stn, temp suspended. (5-26) Army DF (HF) stn oper temp suspended. (3-18)
MILFORD ARPT-SITE 45, LOS ANGELES-SALT LAKE-Installation of obst lgts on bldgs SE corner fld S of and adj to bcn twr incomplete. (5-22)

PROVO ARPT-Soft shoulders. Fld lgts avail. on req. (7-18)
ST. GEORGE (Site 36, Los Angeles-Denver)-Equip. along edges of strips. (6-13)
SALT LAKE CITY-RADIO: Auto. range monitor. sys on N course temp inop. Temp remote monitor. sys which provides cont aural and visual monitor. at control stn recomm on N course. Warning signal not avail. (5-3)
SALT LAKE CITY ARPT NO. 1-RADIO: About Nov 1, CAA ILS will be comm, serving N/S rnwy with approach from S. Lolzr transmitter lctd 1000' N of N end of N/S rnwy on centerline, freq 110.3 mcs. Glide path transmitter lctd 750' N of S end N/S rnwy, 800' W of centerline, freq 335 mcs. Two marker bcns: Middle, 3730' S of S end N/S rnwy, keyed with alternate dots and dashes; outer, 4.69 mi S of S end N/S rnwy, keyed two dashes per sec. Sys will operate cont. (8-14) FLD: Prevailing wind rnwy lgts operating ngts. Use rnwys-shoulders soft. Equip. ahead of Rnwys 31 and 34. (9-11)
SALT LAKE ARPT NO. 2 (SALT LAKE CITY)-Use rnwys, taxiways only, shoulders soft. (6-5)
WENDOVER FLD-RADIO: 126.18 mc transmitter and receiver of Army twr temp inop (7-12) FLD: CLOSED TO ALL TRANS ACFT EXCEPT ON OFF. BUS. OR IN EMERG. Opers inop 1700 to 0730. No svcg 2000 to 0730. Fld lgts avail. only on advance req. Obst lgts on mtn N of fld inop. (3-1)

VERMONT

BARRE-MONTPELIER ARPT (BERLIN)-Use rnwys only. (8-7)
BURLINGTON ARPT-Use rnwys only. Const E side of N end N/S rnwy. (9-16)

VIRGINIA

ALBERTA ARPT-NNE/SSW strip rough. Ends, sides NNE/SSW, NNW/SSE strips mrkd by 12' yellow mkrs. (5-24)
ALTAVISTA ARPT-200' NE end of fld unusable in wet weather. (5-23)
BLACKSTONE AAF-Temp inactive. No facs. (See Special Notice re use).
CENTRAL ARPT (RICHMOND)-During wet weather use strips only. (5-20)
CHINCOTEAGUE NAAS-Closed 1700 to 0800 except in emerg or on req with 2 hrs notice. Bcn operates all ngt except during local ngt flying with CVR conditions. Bcn turned on during ngt flying in emerg or on req. (9-5)
COLONIAL BEACH ARPT-CLOSED (wet-high grass). (8-9)
CROSSROADS ARPT (ALEXANDRIA)-CLOSED (const). (4-1)
DAHLGREN NAF PROVING GROUNDS-CLOSED TO ALL TRANS MIL ACFT EXCEPT THOSE ON OFF. BUS. OR IN EMERG. Off. flights must be cleared thru one of the following: Naval Air Stations, Anacostia, D.C.; Patuxent River, Md.; Norfolk, Va.; Quonset Point, R.I.; Cape May, N.J.; Inyokern, Calif.; NAF Torpedo Stn, Newport, R.I.; Naval Acft Factory, Philadelphia, Pa.; Cherry Point MCAS, N.C.; QUANTICO MCAS, Va.; AAF Proving Ground, Eglin Fld, Valparaiso, Fla.; Langley Fld, Langley, Va.; Wright Fld, Dayton, Ohio; Aberdeen Proving Ground, Aberdeen, Md.; Lakehurst NAS, N.J. 1 rnwy closed. Equip. on fld. Only 1 rnwy avail. ngt opers. (8-28)
EMPORIA ARPT-Fixed tee, wind sock being lctd on hangar S side fld. Hangar under const. (5-4)
FORTRESS NAAS-Use in emerg only (caretaker status - no facs).
HARCUM ARPT-Use NE/SW strip only between yellow cone mrkrs. (6-14)
HOPEWELL ARPT-SE portion under const. Equip. on fld. (6-7)
HYBLA VALLEY ARPT (ALEXANDRIA)-Surplus Acft Sales Center - parked acft.
LANGLEY FLD-RADIO: S course of Army range unreliable - 11° W, bear. 3°. AACS, ground to air stn temp inop. Army range voice transmission temp inop. (6-25) FLD: Rnwy 12-30 closed ngt. Rnwys 12-30, 2-20 closed to 4-engine acft. Only 100 oct avail. (6-21)
LEWING FLD-SITE 35A, NASHVILLE-WASHINGTON (PULASKI)-Observe right traffic pattern for landings from SW on NE/SW rnwy. (9-1)
MILFORD (Site 49B, Atlanta-New York)-NE/SW strip unsafe. (5-9)
MONOGRAM NAAS (DRIVERS)-Use in emerg only (caretaker status - no facs).

VIRGINIA

NORFOLK-RADIO: VHF range comm FOR TEST PURPOSES ONLY Sept 26. Lctd at lat 36-48-18, long. 76-12-06. Ident. "NW". Freq. 108.7 mcs. Visual courses: 20°, 15', 200°, 15'. Aural courses: 110°, 15', 290°, 15'. Class: VARW. Aligned by ground check only. (9-28)

NORFOLK NAS-EAST FLD-Shoulders adj perimeter taxiway soft. Pilots on Southbound coastal flights proceeding in accordance with IFR to NAS Norfolk, shall establish radio ctc with twr at NAAS Chincoteague, Va., for further clearance instructions from Navy Norfolk. Pilots on Northbound coastal flights proceeding in accordance with IFR to NAS Norfolk shall establish radio ctc with Navy Weeksville Radio, NAS (LTA) Weeksville, Elizabeth City N.C., for further clearance and instructions from Navy Norfolk. Equip on fld. (7-22)

OCEANA NAAS-Rnwys, taxi strips under const. Facs avail. 0800 to 1630 Mon thru Fri. Acftc clearances not accepted 1630 to 0800 Mon thru Fri. Essential mil flights accepted anytime on prior notification.(8-26)

PETERSBURG ARPT-CLOSED (const). (8-2)

PRESTON GLENN ARPT (LYNCHBURG)-Use rnwys only. Ctc Lynchburg Radio for landing instructions. Pwr line extension of 2 poles approx 3200' NW of W end E/W rnwy and 3 poles approx 3600' to 3800' W of W end E/W rnwy, unlgtd, unmrkd. (9-25)

PULASKI-RADIO: Range courses aligned by ground check only. (9-30) These data recvd too late to affect charts

RICHMOND-Elko Aux. Fld, 5 mi E of Richmond AAB, is similar in design and layout to the Richmond AAB BUT RNWYS ARE UNSUITABLE FOR LANDING BY ACFT OF ANY TYPE. Care should be taken not to confuse this fld with the Richmond AAB.

RICHMOND AAB-Ltd army svcg facs. No 91 oct. Avoid using 1000' rnwy extensions. Rnwy, taxiway shoulders soft. All acft landing this fld without establishing radio communications with control twr watch carefully for lgt gun signals; control twr lctd in center of triangle of rnwys. Only 73,100 oct avail. (8-97)

UNIVERSITY OF VIRGINIA AIRPORT (CHARLOTTESVILLE)-Caution in wet weather.(6-7

WINCHESTER AIRPORT-E end E/W strip rough. Contact Front Royal Radio or circle fld before landing. (6-7)

WOODRUM FIELD (ROANOKE)-Equip. on fld and adj all rnwys. (5-12)

WASHINGTON

SPECIAL NOTICE-Benton County Danger Area Approx 12 mi NW of Pasco is particularly hazardous-all flights avoid. (See Spokane Flight Planning #3, Spokane Sectional, and Washington 5 Danger Area Charts).

AMABILIS, BEACON SITE 5A, SA-HL-Beacon inop. (9-26)

ARLINGTON NAAS-Use in emerg only (caretaker status - no facs).

BOEING-RENTON AIRPORT (RENTON)-CLOSED TO ALL EXCEPT MID ACFT ON OFF. BUS. AT BOEING PLANT.

COLVILLE AIRPORT-NW/SE rnwy closed. (1-17)

CONNELL ARPT-18" grass and weeds on fld. (7-17)

COUPEVILLE OLF-Closed except in emerg. Train. use requires 24 hrs advance notice thru Whidbey Island NAS. (9-11)

DOROTHY SCOTT ARPT (OROVILLE)-2' weeds S 1000' N/S strip. (7-1)

★EVERETT-RADIO: The Interstate Airway Communication Stn air/ground position of the Overseas-Foreign Aeronautical Communications Stn at Everett,Wash, was transferred to the newly comm Interstate Airway Communication Stn at Paine Fld on Aug 23, 1946. The Everett Radio range (MI) and bdcast facs controlled hereafter from Paine Fld (Everett-Radio). Weather reporting service, teletype designator (MI) on circuits A and B and cont receiving watch on 3105,4495,6210,3117.5 kcs and 116.1 mcs are now established. This corrects "AIRGI" Vol. 1 No. 13. (9-16)

WASHINGTON-Continued

FAIRWEATHER FLD (REPUBLIC)-Soft. Cattle on fld. (7-17)

FELTS FLD (SPOKANE)-Pancher bon near Felts Fld inop. Take-offs and landings on sod area should be completed before reaching taxiway near center of fld. (8-28)

GEIGER FIELD (SPOKANE)-Temp inactive. No facs. (See Special Notice re use).

HAFER'S RANCH ARPT (CHEWELAH)-Closed pending decision re abandonment. (7-1)

ILWACO ARPT-CLOSED (const). (7-20)

KING CO. ARPT-BOEING FLD (SEATTLE)-Use rnwys, taxi strips only. Equip. adj Rnwy 13-31. (9-26)

LAKE SAMMAMISH SEAPLANE ANCHORAGE (ISSAQUAH)-CLOSED. (4-26)

McCHORD FIELD (TACOMA)-RADIO: Army ILS (CAA type) temp inop. (6-12) FLD: Use rnwys, taxiways only. Equip. on fld. Glide path bldg 13' high with 25' antenna being erected about 1340' N of S end N/S rnwy and 250' E of Rnwy center line; lgtd ngts. (12-13)

MERCER AIRFLD (BELLEVUE)-Const on taxiway, apron. Alternate temp area avail, E side fld. (9-3)

MOON ISLAND ARPT (ABERDEEN)-Equip. on rnwys. (9-30)

MOSES LAKE AAF-Temp inactive. No facs. (See Special Notice re use).

MT. CATHERINE (Beacon Site 4, Seattle-Helena)-Beacon inop. (6-12)

MT. VERNON OLF-Closed except in emerg. Train. use requires 24 hrs advance notice thru Whidbey Island NAS. (9-11)

ORCAS ISLAND AIRPORT (EAST SOUND)-Fld flooded. (12-25)

PAINE FLD (EVERETT)-Closed for landings, take-offs sunset to sunrise except, by prior arrangement with fld manager, Lgts on req. (7-28)

PASAYTEN USFS ARPT (WINTHROP)-Horses on strips intmtly. (7-1)

PASCO-See Special Notice (first item under state heading).

PASCO NAS-Use in emerg only (caretaker status - no facs).

PULLMAN-MOSCOW REGIONAL AIRPORT (PULLMAN)-Closed to acft over 10,000 lbs. (1-26)

**RED WING ARPT (ORCHARDS)-ABANDONED. (9-30)Received too late for inclusion on Flight Planning Charts.

ROSALIA MUN. ARPT-12" grass and weeds. (7-16)

SEATTLE-All acft advised not to fly below or near blimps in Puget Sound Area.

★SEATTLE NAS-RADIO: Navy MH fac comm Sept 23 on cont oper. See page 141. FLD: Approach sta from Kirtland at 1000' alt. Seaplanes landing at NAS, Seattle, approach over Lake Washington from N or S under 200'. Rnwy 14-32 and wind direction indicator lgtd from sunset to sunrise. Rnwy 14R used as taxiway for large multi-engine acft. (6-26)

SEATTLE SKY RANCH (ISSAQUAH)-New strip being const. Acft use seeded portion adj to strip under const. (6-26)

SEATTLE-TACOMA ARPT (SEATTLE)-RADIO: ILS emits localizer signals on 110.3 mcs, boundary and outer marker signals on 75 mcs cont. These signals may at times be spurious and are not to be relied upon for any purpose. (3-14) FLD: Equip on fld days. Const approx 20' N of N end NW/SE rnwy. (8-22)

★SPOKANE AAF-RADIO: Sept 30, AACS, ground to air stn has discont operating on 4765,2800, and 5065. kcs. (9-18)FLD: Use rnwys only. (4-25)

SULLIVAN LAKE ARPT (METALINE FALLS)-2' grass and weeds. (7-1)

WALLA WALLA AAF-Army opers open 0700 to 1800. No svcg 1700 to 0800. All Blinker lgts on mtns E of fld inop. Equip on fld 0800-1700 Mon thru Fri. (8-30)

WESTPORT ARPT-Driftwood on fld after extremely high tides.(7-21)

★WHIDBEY ISLAND NAS-AULT FLD (WHIDBEY ISLAND)-RADIO: Navy MH fac comm Sept 30 on cont oper.See Page 1.These data rec'd too late for inclusion on Flight Planning Charts. Bcn opers on IFR and from sunset to sunrise. Warm-up aprons avail. for all rnwys. (9-11)

WILBUR ARPT-Center 200' strip avail. Equip on fld. (8-8)

YAKIMA-RADIO: 116.1 mc transmitter and receiver inop. (8-22)

YAKIMA CO. ARPT (YAKIMA)-Graded areas rough. (9-17)

WEST INDIES

TRINIDAD-Carlsen Field-Edinburgh (North) rnwy closed to all Navy traffic except in emerg. Use Xeres (South) rnwy.

WEST VIRGINIA

CHARLESTON RADIO: Range flight-checked Sept 25, courses correctly aligned.
ELKINS AIRPORT-Contact Elkins Radio or circle fld before landing. (7-16)
LOUIS BENNETT AIRPORT (WESTON)-Soft spots after continuous heavy rains.
PAYNESVILLE-RADIO: Priv H fac operated by PCA 0600 to 2300, use with caution.
SCOTT FIELD (BECKLEY)-Use right hand traffic pattern. (5-7).
**WEIRTON ARPT (HOLLIDAYS COVE)-New fld. Lat 40-24-00, long. 80-33-10. See page 73. Rec'd too late for inclusion on Flight Planning charts.

WISCONSIN

CLINTONVILLE ARPT-Use strips only. (6-7)
CURTISS-WRIGHT AIRPORT (MILWAUKEE)-Closed ngts. (6-27).
EAU CLAIRE MUN. ARPT-Temp closed. (9-5)
GENERAL MITCHELL FLD (MILWAUKEE)-Equip. on fld days. Right turn procedure rstd to lcly based acft. All acft land acrdg to tetrahedron unless otherwise instrd by twr. All pilots must register in Admin Bldg upon arvl and dptr. Taxi strip S end fld connecting N/S, NW/SE rnwys closed. Excavated area 40' N of middle and E end E/W rnwy and junction NE/SW, NW/SE rnwys. Ditch diggin 40' S of SE end NW/SE rnwy. (9-11)
GINNOW AIRPORT (OMRO)-Use strips only. (6-7)
KENOSHA AIRPORT-Only N bank floodlgts avail. on req. (6-10).
LA CROSSE ARPT-Use rnwys only. (9-24).
MOREY AIRPORT (MADISON)-Equip. on fld - portions under const. marked. (4-28)
PLATTE AIRPORT (PLATTEVILLE)-CLOSED (const). (6-12).
RICE LAKE AIRPORT-Uncompleted portion NE/SW strip rough. (5-22)
RICHLAND CENTER ARPT-Equip on fld. (8-10)
SHAWANO AIRPORT (SHAWANO)-Use rnwys only. E/W strip under const. (8-5)
SKY HAVEN AIRPORT (MILWAUKEE)-S 1/3 portion N/S strip unusable (washouts). (6-5)
STEVENS POINT AIRPORT-Use rnwys only. (8-9)
TAYLOR CO. ARPT (MEDFORD)-Avail. in emerg only. Very rough. Maintained for small acft only. (6-6).
TOMAH AIRPORT-N/S strip under const. (7-9)
TRUAX FLD (MADISON)-Equip. on fld, unmrkd days, lgtd ngts. Army temp inactive civil. facs. Use rnwys only. Grass areas rough. (9-28)
VETERANS FLD (MENOMONIE)-Rough. (3-28)
WATERTOWN MUN. AIRPORT-N/S strip soft - use W part of sod when wet. (4-10)
WINNEBAGO COUNTY ARPT (OSHKOSH)-Use rnwys only. (8-20)

WYOMING

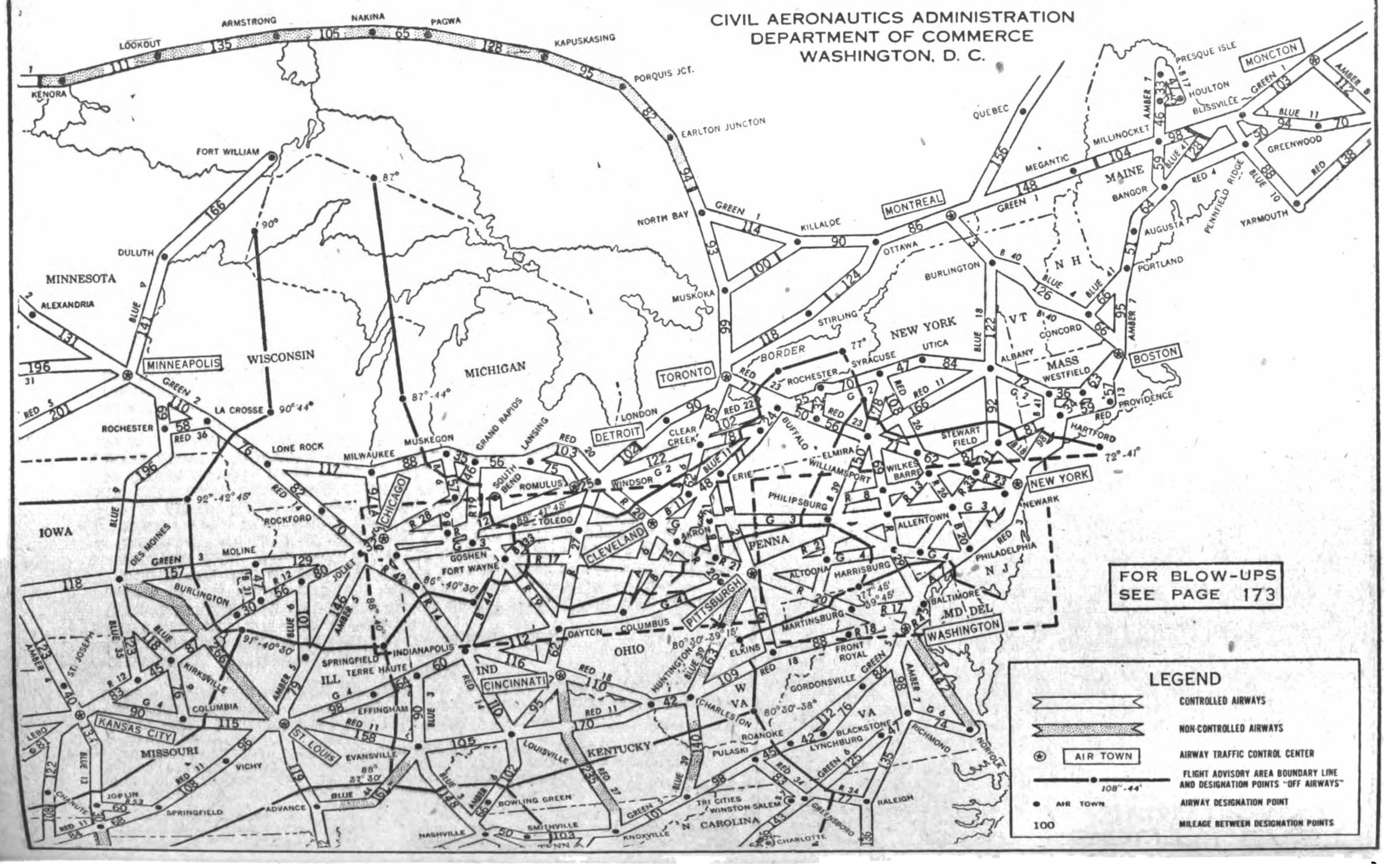
CASPER-RADIO: Soon FM will be comm at Parkerton, Wyo at lat 42-53-48, long. 105-58-06, ident one dash. Bear and dist, range stn to FM; 76°, 17 mi. (9-23).
CASPER AAF-Temp inactive. No facs. (See Special Notice re use).
CHEYENNE ARPT-Equip on fld intmtly. (7-20)
JACKSON MUN. ARPT-Cattle on fld intmtly. (5-20)
SHERIDAN COUNTY AIRPORT (SHERIDAN)-N/S rnwy unsafe heavy acft. Taxi strips parallel all rnwys except N/S rnwy and terminate at ramp. Stay on pavement. Equip. on fld. (5-8).
**WARDWELL FLD (CASPER)-155' twr Rdo Stn KVOC lctd 5-1/2 mi SSE (162°) true, properly obst lgtd. (9-15). Use rnwys, taxi strips only, bal fld rough. (7-15).

NORTH EAST QUADRANT

CIVIL AIRWAYS AND MILEAGE CHART

INCLUDING UNITED STATES AND CANADIAN FLIGHT ADVISORY AND TRAFFIC CONTROL AREAS

CIVIL AERONAUTICS ADMINISTRATION
DEPARTMENT OF COMMERCE
WASHINGTON, D. C.



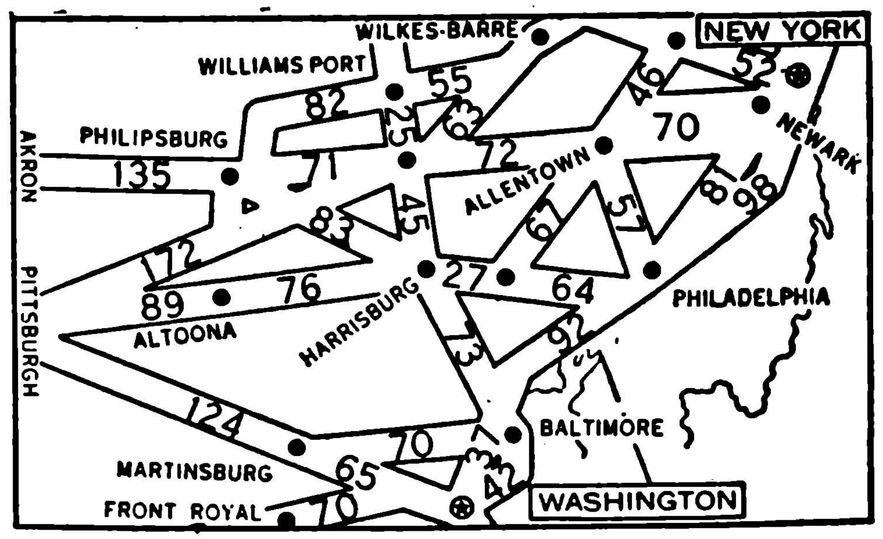
FOR BLOW-UPS
SEE PAGE 173

LEGEND

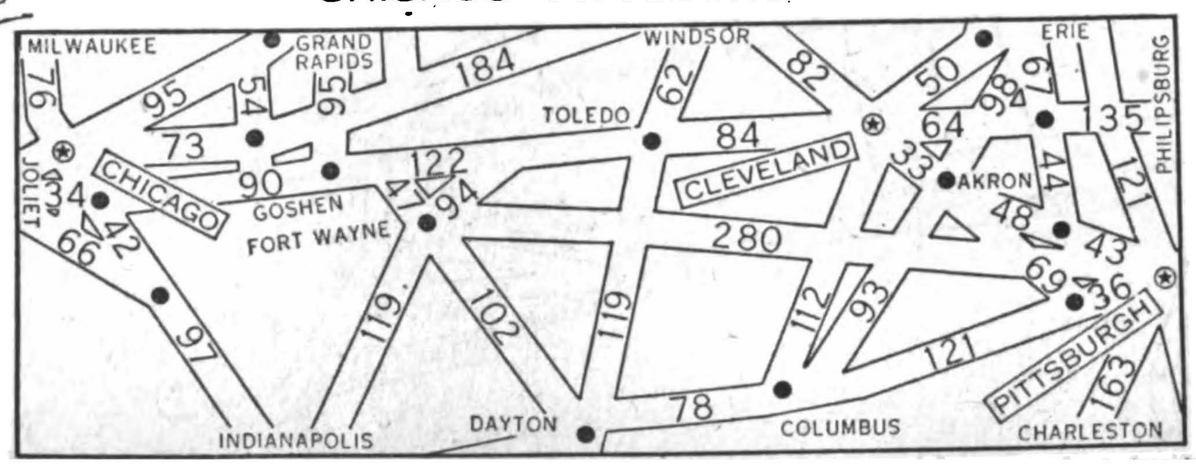
- CONTROLLED AIRWAYS
- NON-CONTROLLED AIRWAYS
- AIR TOWN — AIRWAY TRAFFIC CONTROL CENTER
- 108°-44' — FLIGHT ADVISORY AREA BOUNDARY LINE AND DESIGNATION POINTS "OFF AIRWAYS"
- AIR TOWN — AIRWAY DESIGNATION POINT
- 100 — MILEAGE BETWEEN DESIGNATION POINTS

SOUTH EAST QUADRANT

NEW YORK - WASHINGTON AREA



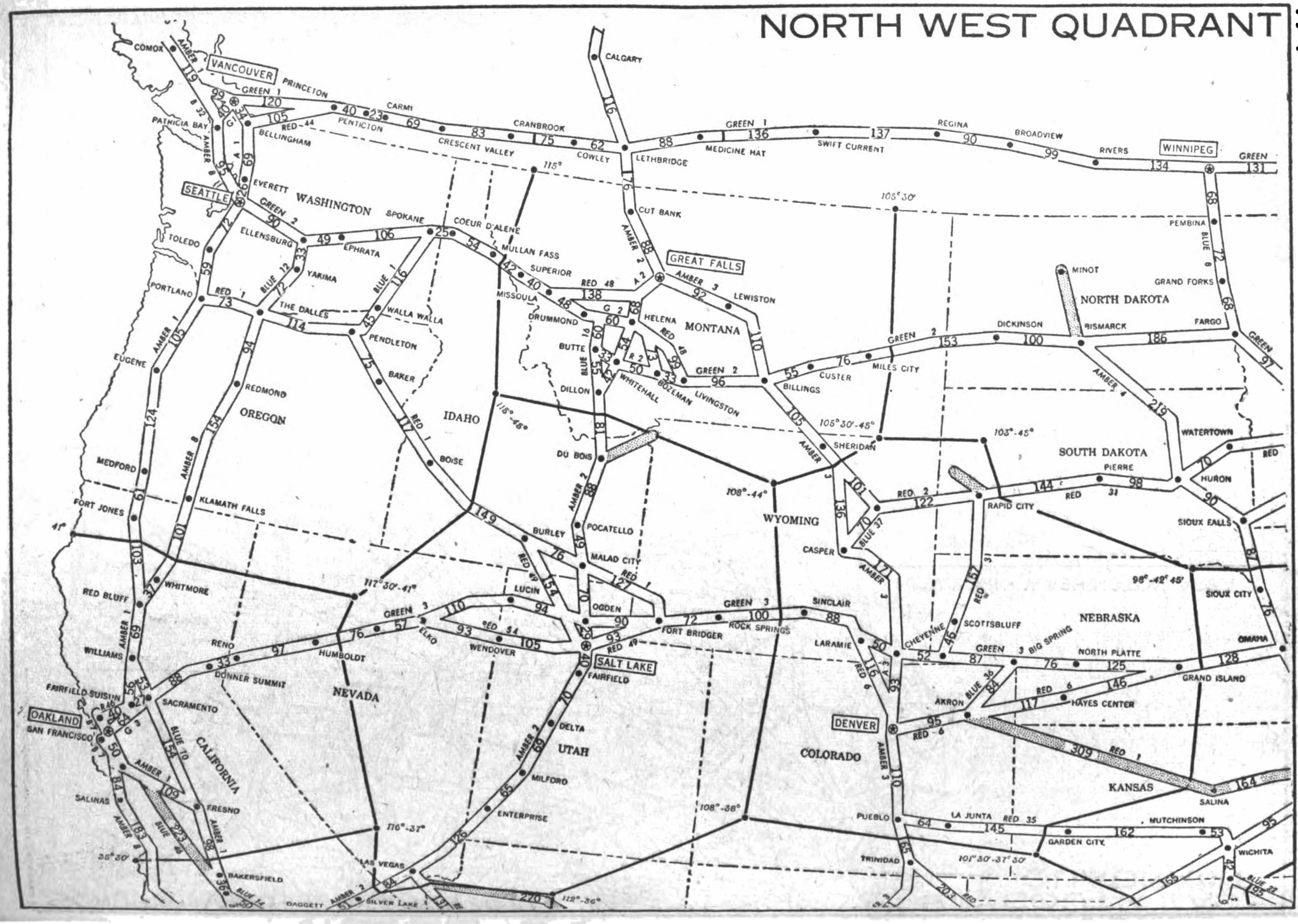
CHICAGO - PITTSBURGH AREA



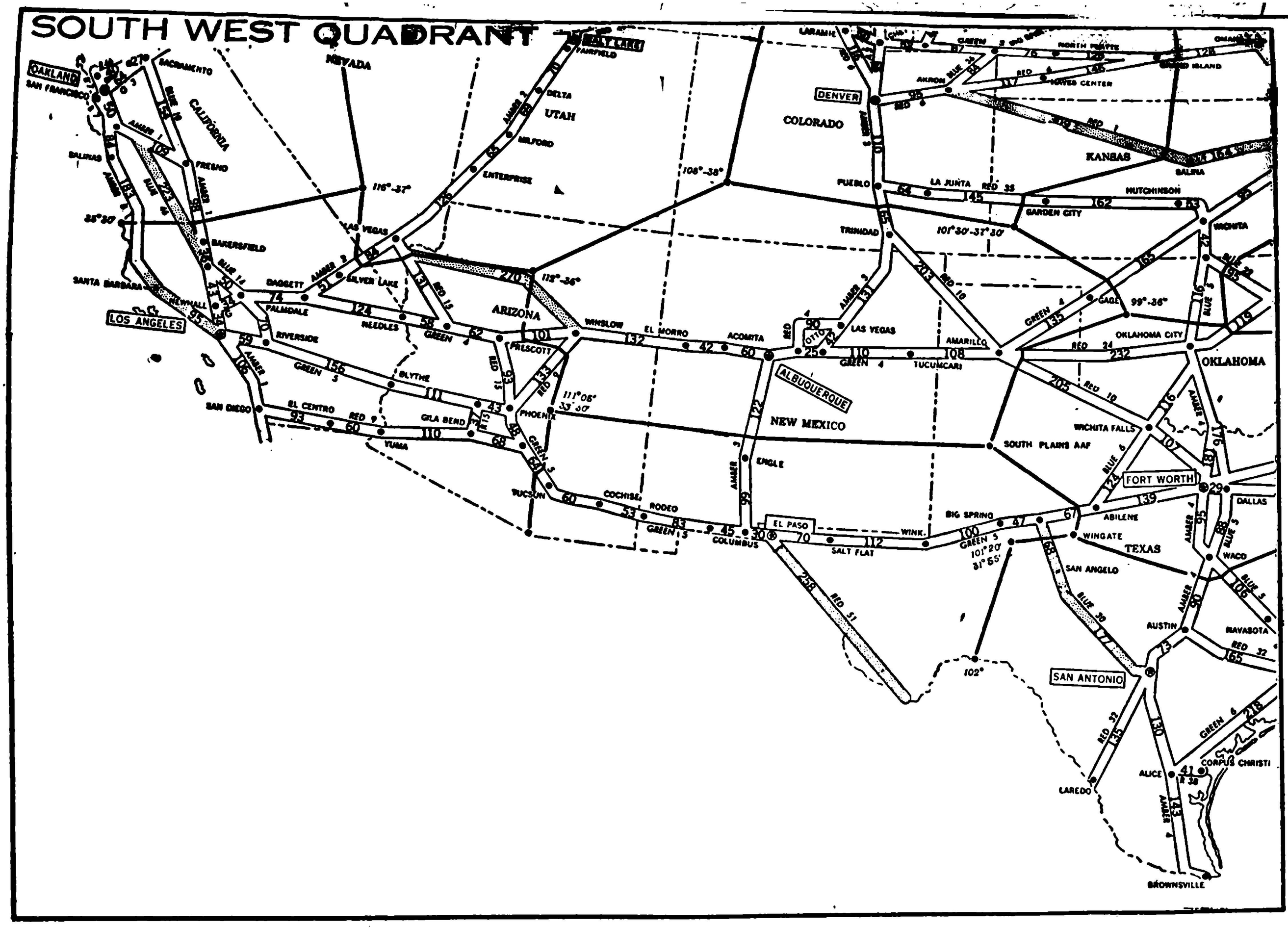
FLIGHT LEVELS

GREEN AND RED CIVIL AIRWAYS
EASTBOUND - ODD THOUSAND FOOT LEVELS
WESTBOUND - EVEN THOUSAND FOOT LEVELS
AMBER AND BLUE CIVIL AIRWAYS
NORTHBOUND - ODD THOUSAND FOOT LEVELS
SOUTHBOUND - EVEN THOUSAND FOOT LEVELS

NORTH WEST QUADRANT



SOUTH WEST QUADRANT



AERONAUTICAL CHARTS

U. S. Coast and Geodetic Survey

Dates of Latest Prints

Dates in small type indicate minor changes which are not of sufficient importance to make the previous print obsolete. All charts carrying dates older than those shown in large type on this list are obsolete for use in flight.

SECTIONAL

Aberdeen	Dec. 11, 1945	May 31, 1946
Albany	July 9, 1946	
Albuquerque	Feb. 19, 1946	
Aroostook	June 26, 1946	
Austin	Aug. 11, 1946	
Beaumont	July 25, 1946	
Bellingham	Apr. 30, 1946	
Birmingham	Apr. 2, 1946	
Boise	Apr. 30, 1946	
Boston	July 2, 1946	
Burlington	June 24, 1946	
Butte	May 15, 1946	
Casper	May 20, 1946	
Charlotte	Apr. 2, 1946	
Chattanooga	Apr. 2, 1946	
Cheyenne	Aug. 30, 1945	May 24, 1946
Chicago	June 17, 1946	
Cincinnati	Apr. 2, 1946	
Cleveland	June 24, 1946	
Corpus Christi	Aug. 6, 1946	
Dallas	Mar. 5, 1946	
Del Rio	Jan. 22, 1946	July 23, 1946
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Dubuque	Oct. 2, 1945	June 18, 1946
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Mt. Whitney	Aug. 27, 1946	
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New York	July 2, 1946	
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Yellowstone Park	Oct. 30, 1945	May 13, 1946

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WAC 215	May 9, 1946	WAC 266	May 29, 1946	WAC 309	July 13, 1946	WAC 364	Mar. 5, 1946	WAC 467	Aug. 6, 1946
WAC 216	May 17, 1946	WAC 267	May 24, 1946	WAC 310	Aug. 6, 1946	WAC 404	Mar. 5, 1946	WAC 468	July 30, 1946
WAC 217	June 4, 1946	WAC 268	June 12, 1946	WAC 357	Apr. 30, 1946	WAC 405	Mar. 5, 1946	WAC 469	July 25, 1946
WAC 218	June 17, 1946	WAC 269	May 10, 1946	WAC 358	Apr. 16, 1946	WAC 406	Mar. 19, 1946	WAC 470	July 17, 1946
WAC 219	June 13, 1946	WAC 304	May 29, 1946	WAC 359	Apr. 16, 1946	WAC 407	Apr. 2, 1946	WAC 471	July 15, 1946
WAC 262	June 26, 1946	WAC 305	May 13, 1946	WAC 360	Apr. 2, 1946	WAC 408	Apr. 2, 1946	WAC 522	July 29, 1945
WAC 263	June 18, 1946	WAC 306	May 29, 1946	WAC 361	Apr. 2, 1946	WAC 409	Apr. 16, 1946	WAC 525	Aug. 8, 1946
WAC 264	July 10, 1946	WAC 307	June 6, 1946	WAC 362	Mar. 5, 1946	WAC 410	Apr. 16, 1946		
WAC 265	June 12, 1946	WAC 308	June 12, 1946	WAC 363	Mar. 5, 1946	WAC 466	Aug. 30, 1946		

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21-DF	July 8, 1946	23-DF	Mar. 5, 1946	25-DF	Apr. 2, 1946	New York & Vicinity	Aug. 6, 1946
22-DF	July 22, 1946	24-DF	May 14, 1946	26-DF	May 19, 1946	San Diego	Feb. 19, 1946

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Miami	July 3, 1946
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WAC 62	Feb. 1946	WAC 76	May 1946	WAC 118	Aug. 1946	WAC 136	May 1946	WAC 139	Mar. 1946	WAC 191	Apr. 1946
WAC 63	May 1946	WAC 77	Oct. 1944	WAC 119	Jan. 1946	WAC 137	Mar. 1946	WAC 185	Mar. 1946	WAC 192	Mar. 1946
WAC 64	Mar. 1946	WAC 117	Dec. 1944	WAC 135	Mar. 1946	WAC 138	May 1946	WAC 190	Apr. 1946	WAC 193	Mar. 1946

FLIGHT

FC 1	Mar. 30, 1946	FC 13	May 28, 1946	FC 177		FC 214	May 31, 1945	FC 226	Mar. 1945
FC 2	May 28, 1946	FC 14	Feb., 1945	FC 178	May 15, 1946	FC 216	May 17, 1946	FC 227	Sept. 12, 1945
FC 3	July 9, 1946	FC 15	Apr., 1945	FC 181	July 11, 1946	FC 217	Oct. 30, 1945	FC 228	Sept. 12, 1945
FC 4	July 23, 1946	FC 16	Aug. 6, 1946	FC 182	Mar. 5, 1946	FC 218	May 9, 1946	FC 229	July 5, 1945
FC 6	Oct., 1945	FC 18	June, 1943	FC 183	Apr. 2, 1946	FC 219		FC 230	July 5, 1945
FC 7	July, 1945	FC 42	May 15, 1946	FC 184	Mar. 19, 1946	FC 220	May 31, 1945	FC 231	May 31, 1945
FC 8	Jan., 1946	FC 43	May 31, 1946	FC 185	May 31, 1946	FC 221	May 31, 1946	FC 232	May 31, 1945
FC 9	Nov., 1944	FC 173	May 24, 1946	FC 186	June 21, 1945	FC 222	May 31, 1946	FC 233	Apr. 16, 1945
FC 10	Dec., 1944	FC 174		FC 187	May 31, 1946	FC 223	May 24, 1946	FC 234	May 31, 1946
FC 11	July 9, 1946	FC 175	May 31, 1945	FC 188	June 21, 1945	FC 224	May 31, 1945		
FC 12	Aug. 6, 1946	FC 176	May 31, 1945	FC 213		FC 225	June 7, 1945		

New editions of the charts listed below will be published in about one month, making former prints obsolete for use in aviation. Orders for these particular charts should be kept to a minimum for immediate requirements. As soon as the charts are available for distribution a second notice will appear in this publication:

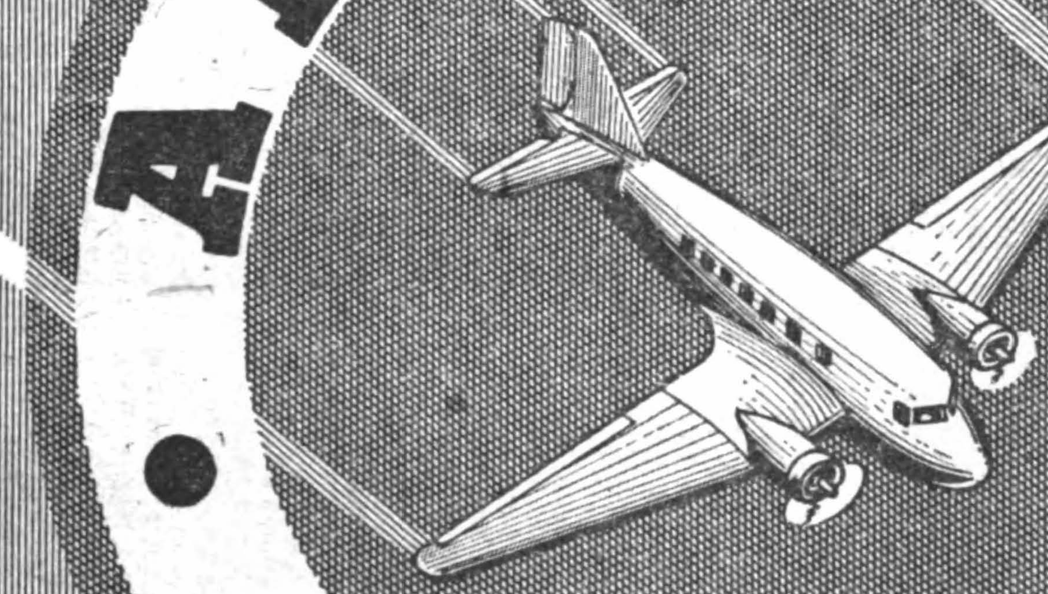
Chattanooga, Cincinnati, Kansas City, Little Rock, Nashville, Shreveport, Tulsa; WAC 361, WAC 406; FC 220, FC 232.

A new edition (or chart) of the charts listed below which make former prints obsolete is now available for use. Former prints should be destroyed or stamped "OBSOLETE FOR USE IN AVIATION":

AL 93 - Aug. 20, 1946, AL 185 - June 10, 1946, AL 330 - Aug. 16, 1946;
OP 318 - Pensacola, Fla., Airport, OP 375 - San Francisco, Calif., San Francisco Arpt.

When ordering charts from the U. S. Coast and Geodetic Survey, correct remittances should accompany all orders. Sectional Charts should be ordered by name; World Air Charts by number with the prefix (WAC); Approach and Landing Charts by number with the prefix (AL); Route Charts by number with the prefix (FC). The above charts are priced at 25 cents each with the exception of Approach and Landing Charts which are priced at 5 cents each.

AIRMAN'S GUIDE



NOTICES TO AIRMEN
DIRECTORY OF AIRPORTS
AIR NAVIGATION RADIO AIDS

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VOL. 1, NO. 15 . . . OCTOBER 15, 1946

This issue includes all data on record as of 0001 E.S.T. on the date above. For later information consult teletype NOTAMS.

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
OFFICE OF AVIATION INFORMATION

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Buhl (23)*
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Caldwell (22)
Cascade (3)
Cayuse Creek (3)*
Challis (6)
Coeur d' Alene (3)
Dixie (3)*
Dubois (6)
Eagle (22)
Emmett (22)
Glenns Ferry (22)
Gooding (23)
Grangeville (3)
Hagerman (23)*
Hailey (23)
Idaho Falls (23)
Idahome (23)
Jerome (23)
Kamiah (3)
Kellogg (3)
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McCall (3)
Mackay (23)*
Malad City (23)
Montpelier (23)
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Nampa (22)
Orofino (3)
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Parma (22)
Payette (3)
Pocatello (23)
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Red River H. Sprgs (6)
Rexburg (23)
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St Maries (3)
Salmon (6)
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Strevell (23)
Tensed (3)
Tyhee (23)
Twin Falls (23)
Victor (23)*
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Jeffersonville (70)
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Kokomo (70)
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Lapel (70)
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Lawrenceburg (70)
Lebanon (70)
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North Manchester (35)
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Oaktown (67)
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Orleans (70)
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Plainfield (70)
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Rensselaer (34)
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Rochester (35)
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Dows (31)
Dubuque (31)
Dyersville (31)
Earlham (31)
Eldora (31)
Emmetsburg (31)
Estherville (31)
Fiscus (30)
Floyd (31)
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Grimes (31)
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Guthrie Center (31)
Hancock (30)
Harlan (30)
Ida Grove (30)
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Jefferson (31)
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Le Mars (30)
Leon (31)
Lucas (31)
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Marshalltown (31)
Mason City (31)
Mechanicsville (31)
Melbourne (31)
Milford (30)
Missouri Valley (30)
Moneta (30)
Monroe (31)
Montezuma (31)
Mt. Ary (31)
Mt. Pleasant (31)
Muscatine (31)
Newton (31)
Ocheydean (30)
Onawa (30)
Ottumwa (31)
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Pocahontas (31)
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Storm Lake (30)
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(85)-Page number of chart on which these locales are inscribed. *-Facility listed on data pages but not charted. Seaplane Bases are not charted.

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McPherson (62)
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(85)-Page number of chart on which these locales are inscribed. •-Facility listed on data pages but not charted. Seaplane Bases are not charted.

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Chester (6)
Chinook (7)*
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Circle (7)
Columbus (7)
Conrad (6)
Custer (7)
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Deer Lodge (6)
Dell (6)
Denton (7)
Dillon (6)
Drummond (6)
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Chappell (27)
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Elgin (30)
Fairbury (30)
Falls City (30)
Fort Robinson (27)
Fremont (30)
Geneva (30)
Gordon (27)
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Harvard (30)
Hastings (30)
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Hay Springs (27)
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Holdrege (30)
Humboldt (30)
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Kearney (30)
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Lorenzo (27)
McCook (27)
Mead (30)
Mitchell (27)
Norfolk (30)
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Omaha (30)
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Newburgh (43)
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(85)-Page number of chart on which these locales are inscribed. *-Facility listed on data pages but not charted. Seaplane Bases are not charted.

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Beaufort (111)
Belmont (110)
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Burgaw (111)
Burlington (110)
Candor (110)•
Carolina Beach (111)
Chapel Hill (110)
Charlotte (110)
Cherry Point (111)
Clinton (111)
Concord (110)
Derita (110)
Draper (110)
Durham (110)
Eagle Springs (110).
Edenton (111)
Elizabeth City (111)
Elkin (110)
Erwin (110)
Fayetteville (110)
Fort Bragg (110)
Franklin (107)
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Gibsonville (110)
Goldsboro (111)
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Mt. Olive (111)
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New River (111)
North Wilkesboro (110)
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Pinehurst (110)
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Raleigh (110)
Red Springs (110)
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Carrington (11)
Crosby (10)
Dawson (11)
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Dickinson (10)
Driscoll (10)
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Fargo (11)
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Glen Ullin (10)
Golva (10)
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Harvey (11)
Jamestown (11)
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Killdeer (10)
Langdon (11)
Lisbon (11)
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Mohall (10)
Mott (10)
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New Rockford (11)
Parshall (10)
Pembina (11)
Rhame (10)
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Towner (10)
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(85)-Page number of chart on which these locales are inscribed. •-Facility listed on data pages but not charted. Seaplane Bases are not charted.

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(85)-Page number of chart on which these locales are inscribed. *-Facility listed on data pages but not charted. Seaplane Bases are not charted.

Plymouth,Wisc (15,34) Port Isable,Tex.(114) Saginaw,Tex.(98) Cape Charles,Va.(111) Auburn,Wash.(142) Huntsville,Wash.(3)

DIGEST OF AIR TRAFFIC CONTROL PROCEDURES

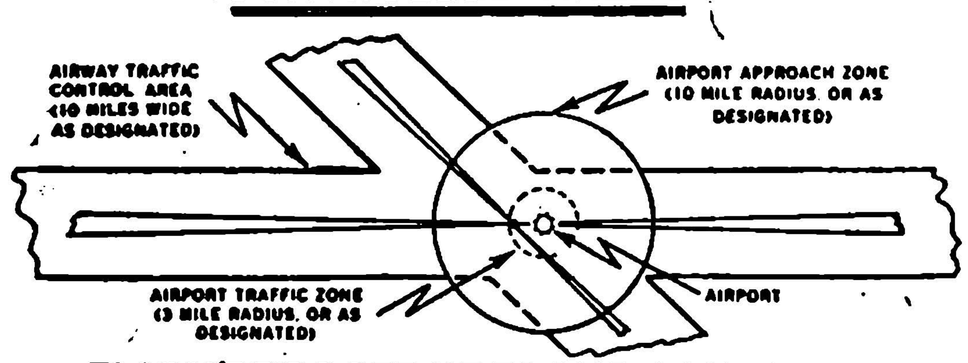
This digest is prepared expecially for the use of pilots operating within control areas, airport approach zones and airport traffic zones. For detailed information, see Civil Aeronautics Administration Manual 60, AAF Regulation 60-16, and pertinent Navy Publications.

CONTACT FLIGHT RULES WEATHER MINIMUMS

	Inside Airport Traffic Zone (3-mile radius)	Inside Control Area (but outside of Airport Traffic Zones)	Elsewhere
Flights at altitudes of more than 700 feet above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	500 ft. vertically, 2000 ft. horizontally from all clouds-3 miles visibility (or 1 mi. with traffic clearance)	500 feet vertically, 2000 feet horizontally from all clouds 1 mile visibility
Flights at altitudes of 700 feet or less above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	Clear of clouds * * 1 mile visibility	Clear of clouds * * 1 mile visibility

*If traffic conditions permit, a control tower or control center will issue a traffic clearance when the minimums are less than those specified, but under this provision the flight must remain clear of clouds.
**In airport approach zones flights must remain 500 feet vertically and 2000 feet horizontally from all clouds unless a center or tower issues a traffic clearance for flight "clear of clouds"

CONTROLLED AREAS



FLIGHT PROCEDURES AND CONDITIONS

The types of flight plans and conditions under which aircraft may be operated are summarized as follows:

Contact Flight Rule (CFR)-Aircraft must be flown in weather conditions equal to or better than those outlined in the weather minima chart without benefit of reductions authorized by a traffic clearance. No flight plan or communication contacts are necessary other than as required by an airport traffic control tower for regulation of local airport traffic.

Contact Flight Rule-Controlled-Aircraft may be operated in weather conditions lower than the basic weather minima within control areas, airport approach zones, and airport traffic zones, providing the pilot files flight plan specifying the route to be flown with an airway traffic control center or airport traffic control tower, he receives a traffic clearance and he complies with all conditions stipulated in the clearance. Communication contacts and position reports may be required by Air Traffic Control for this type of flight, as traffic control separation will be afforded aircraft on the same basis as aircraft operating on an IFR flight plan.

Instrument Flight Rule (IFR)-Pilots proposing to operate aircraft in accordance with instrument flight rules are required to: file a complete flight plan with an airway traffic control center or airport traffic control tower and obtain a traffic clearance from the center or tower prior to flight; maintain continuous listening watch on the appropriate radio frequency, and report by radio the time and altitude of passing each designated reporting point. When an aircraft on an IFR flight plan is operating in weather conditions lower than the basic CFR minima a minimum altitude of 1000 feet above the surface must be maintained. A traffic clearance specifying that a portion of a flight is to be conducted in accordance with contact flight rules (CFR) will require that the pilot maintain without reduction, the basic contact flight rule minima as specified in CAR 60 and assume the responsibility of avoiding other aircraft during the portion of the flight specified. In the event of two-way radio failure, a pilot may (1) proceed according to current flight plan, maintaining the minimum safe altitude or the last acknowledged assigned altitude, whichever is higher, to the range station from which approach will be started to the airport of intended landing, and commence descent at approach time last authorized; or if such time has not been received and acknowledged commence descent at the time of arrival specified in the flight plan. Under such conditions a full-standard instrument approach should be executed unless a CFR approach is made; or (2) if weather conditions permit, proceed in accordance with CFR; or (3) land as soon as practicable. Normally, if the aircraft is operating flight rule weather conditions at the time the radio failure is discovered, the pilot should proceed in accordance with contact flight rules to the airport of first intended landing or to the nearest suitable airport. If this is not possible, the pilot will proceed according to current flight plan. In order that uniform flight levels will be maintained by all aircraft, the altimeter should always be set to the altimeter setting of the nearest reporting station as the flight proceeds. The altimeter setting is issued by the Weather Bureau, and when placed on the barometric scale of the altimeter, will result in a reading of the elevation above sea level on the height scale of the instrument.

Note: A flight plan is required on all AAF flights except for local flights within a defined local flying area.

Arrival Reports-It should be noted that whenever a flight plan has been filed whether for CFR or IFR operations, an arrival report is required, unless the pilot has stated in the flight plan that such report will not be filed.

Maintenance of Flight Altitudes-Within control areas, aircraft should be flown at even or odd thousand-foot levels above sea level depending upon the direction of flight as indicated by odd or even minimum altitudes shown on Flight Planning Charts, unless other altitudes are assigned and approved by an airway traffic control center.

Cruising altitudes outside of control areas or approach zones shall correspond to the direction of flight as indicated below:

MAGNETIC HEADING	Indicated Altitude (feet above sea level)
0° - 89° inclusive,	odd thousands: 1,000 feet; 3,000 feet: etc.
90° - 179° inclusive,	odd thousands plus 500 feet: 1,500 feet: 3500 feet; etc
180° - 269° inclusive,	even thousands: 2,000 feet; 4,000 feet; etc.
270° - 359° inclusive,	even thousands plus 500 feet: 2,500 feet; 4,500 feet; etc.

AIRPORT TRAFFIC CONTROL PROCEDURES

Aircraft with Two-Way Radio: If operating under contact flight rules, arriving aircraft should establish communication with the control tower when approximately 15 miles from the airport of destination. The tower will issue such instructions as are necessary. Pilots should remain tuned to the tower until the landing is completed and the aircraft parked. If on an instrument flight plan, arriving aircraft should remain on range frequency as long as required for navigational purposes. The control tower should not be contacted until after a clearance "to the tower" has been received and the aircraft is 15 miles or less from the airport and clear of clouds, unless otherwise instructed. The clearance, "Cleared to Blank Tower", is also approval for approach subject to any restrictions or instructions contained in the clearance. This clearance, without any restrictions, is approval to make approach for a landing using whatever type of approach desired by the pilot.

Aircraft with Receiver Only: Remain tuned to the tower at all times when within the airport traffic zone. Acknowledge signals in the daytime by movement of ailerons or rudder on the ground and by rocking wings in the air, & at night by flashing landing light. Clearance from the tower should be received for taxiing, landing and taking-off; however, sufficient movement of the aircraft to attract the attention of the tower is permitted. If tower does not issue radio instructions, watch for light signals as the tower may not realize that the aircraft is equipped with a receiver.

Aircraft without Radio Equipment: Observe the tower for light signals, and acknowledge as above. The light signals are:

VISUAL SIGNALS FROM PORTABLE TRAFFIC SIGNAL LIGHT

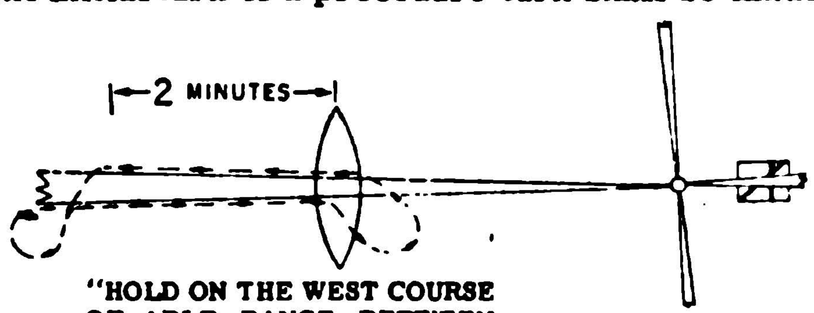
Color and Type of Signal	Taxi-ing	Ready for Take-off	In Flight
STEADY GREEN	XXXXXXXXXXXX	Cleared for Take-off	Cleared to Land
FLASHING GREEN	Continue Taxi-ing	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
STEADY RED	Stop	Clear the Runway Immediately, and Wait	Give Way to Other Aircraft and Continue Circling
FLASHING RED	Return to Hangar Line	Return to Hangar Line	Return and Land
ALTERNATING RED AND GREEN	General Warning Signal - Exercise Extreme Caution		

Traffic and Taxi Patterns have been established at busy airports to illustrate the desired flow of aircraft on the ground and in the air under specified wind conditions. If the traffic pattern is now known, follow other aircraft unless otherwise instructed.

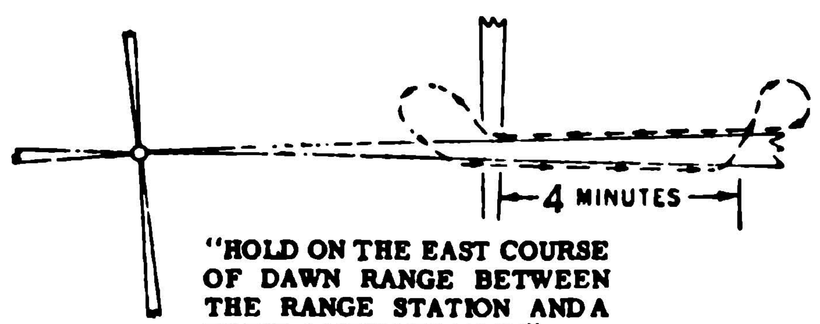
If a pilot does not receive either radio or visual signal from the tower when approaching for a landing, he should make at least one complete circle of the airport conforming to the traffic pattern, and then start approach for a landing. The pilot should be on the alert for a signal from the tower and maintain a watch for other aircraft.

HOLDING PROCEDURES FOLLOWED BY AIRCRAFT AT RADIO FIXES

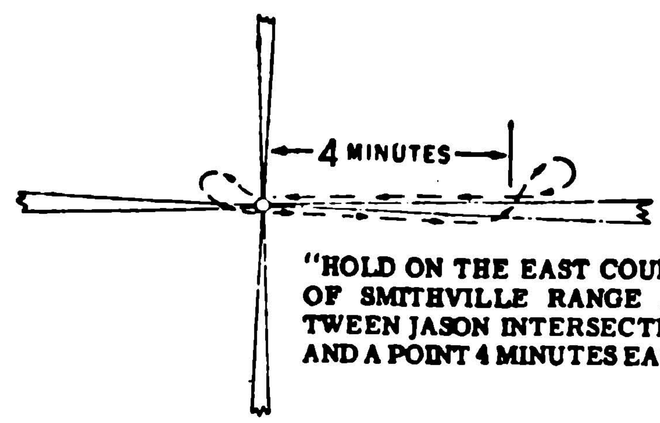
The standard holding flight path of an aircraft operating on an instrument flight rule flight plan and being held at a radio fix is to follow the right edge of the on-course signal of the specified leg of the appropriate radio range. The aircraft shall hold between the designated holding point and a point 4 minutes' flying time therefrom in the direction specified starting procedure turns at the holding point and a point 4 minutes therefrom. Unless prevented by obstructions or unless otherwise advised by an Airway Traffic Control Center or Civil Aeronautics Administration Airport Traffic Control Tower, the initial turn of a procedure turn shall be made to the left when flying away from the range station and to the right when flying toward the range station. The point to be used as the designated holding point will be identified in the traffic clearance which contains instructions for the aircraft to hold. When holding at an approach control marker, the holding flight path will extend from the specified holding point to a point not to exceed 2 minutes' flying time therefrom in the direction specified. When instructions are received giving the time of departure from the holding point, the pilot may adjust his flight path so as to be able to depart from the marker at the exact time specified.



"HOLD ON THE WEST COURSE OF ABLE RANGE BETWEEN BAKER FAN MARKER AND A POINT 2 MINUTES WEST"



"HOLD ON THE EAST COURSE OF DAWN RANGE BETWEEN THE RANGE STATION AND A POINT 4 MINUTES EAST"



"HOLD ON THE EAST COURSE OF SMITHVILLE RANGE BETWEEN JASON INTERSECTION AND A POINT 4 MINUTES EAST"

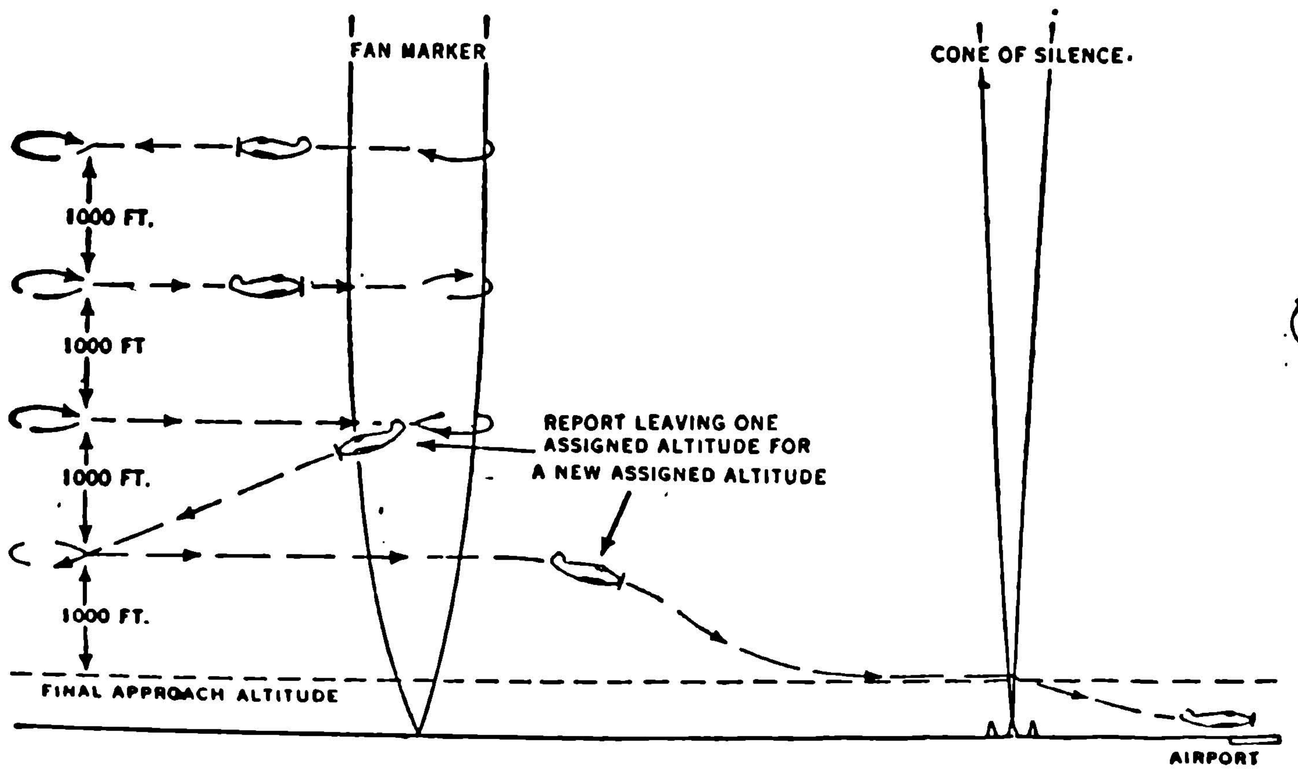
HANDLING OF CFR FLIGHT PLANS, AND ARRIVAL REPORTS

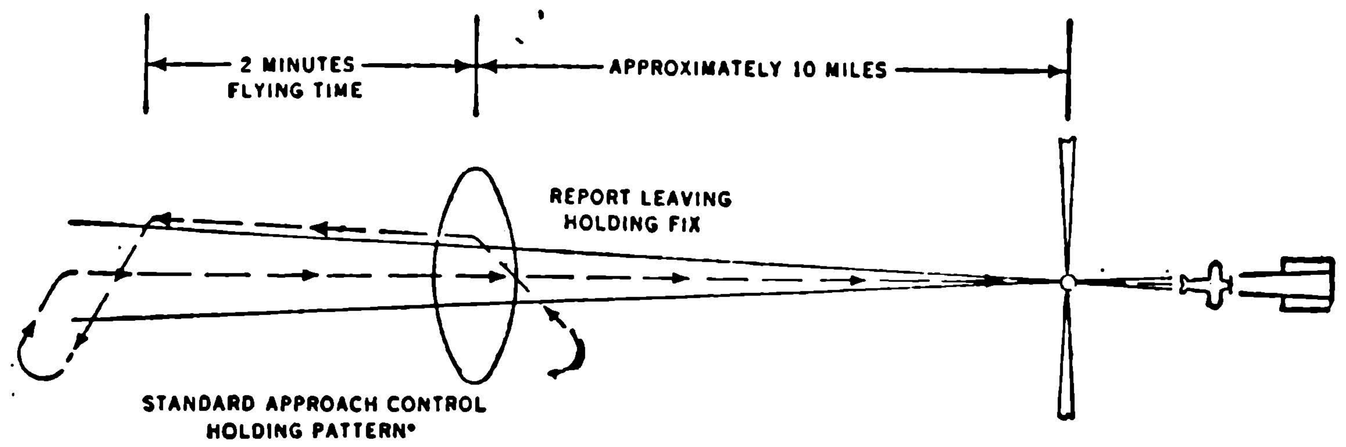
CFR flight plans may be filed with any CAA airways communication station or airway traffic control center. These flight plans are not transmitted to the point of destination but are held in suspense until notice of arrival is received. One hour after the estimated time of arrival, if no notice of arrival is received, queries are sent out over CAA communication systems to determine the location of the aircraft. If the arrival report is not received within three hours, search and rescue operations are initiated. Inasmuch as the Government may be put to considerable expense in determining the location of aircraft when an arrival report is not filed, it is vitally necessary that all pilots using this service make certain that notice of arrival is filed with the CAA communications station at the termination of the flight. Arrival reports are transmitted over CAA circuits to the station holding the flight plan.

In order to reduce radio congestion, pilots should file CFR flight plans, when required, in person or by telephoning the airways communication station or airway traffic control center. CAA control towers have discontinued accepting CFR flight plans for transmission and will not normally file arrival reports except upon the specific request of the pilot. Whenever practicable, however, it is desired that arrival reports be filed in the same manner as flight plans.

APPROACH CONTROL PROCEDURES

Approach control is a service whereby Civil Aeronautics Administration airport traffic control towers issue control instructions in instrument weather conditions, by communicating directly with pilots over the voice feature of a radio range, or over a very-high frequency channel of the control tower. Ordinarily, aircraft will be cleared by the airway traffic control center to the holding fix, (fan marker or other radio fix) with appropriate holding instructions. Instructions to hold "UNTIL FURTHER ADVISED BY (Name of) APPROACH CONTROL ON (Blank) KILOCYCLES" are included by the arwy traffic control center so that the pilot will know on which frequency he will receive further instructions from the tower. When he arrives over the holding point, the pilot initiates a call to "(Name of) APPROACH CONTROL" and advises time and altitude over the holding point, listening on the frequency specified in the ATC clearance for further instructions. Radio contacts required thereafter: (a) when vacating any previously assigned flight level for a newly assigned level; (b) when leaving holding point. Each pilot in an approach sequence will be given advance notice as to the time he should leave the holding marker on approach to the airport. When the time of leaving the holding point has been received, the pilot should shorten the standard holding path remaining in the immediate vicinity of the marker so as to leave the marker as closely as possible to the designated time. Pilots should maintain communication by listening to approach control frequency until cleared to the tower's local control frequency (278 kc. or equivalent). Departing aircraft will receive initial instructions on the tower's local control frequency. Approach Control is established at locations indicated as AC in the station class column on the data pages.





*NOTE: STANDARD 2 MINUTE HOLDING PATTERN FOLLOWED BY ALL AIRCRAFT HOLDING UNTIL INSTRUCTIONS ARE RECEIVED GIVING TIME OF DEPARTURE FROM HOLDING POINT. THEN PILOT SHORTENS HOLDING PATH. REMAINING IN IMMEDIATE VICINITY OF HOLDING POINT SO AS TO LEAVE MARKER EXACTLY AT SPECIFIED TIME.

AIR NAVIGATION RADIO AIDS

LEGEND

(3) Station guards 3105,4495,6210 kcs
(4) Station guards 3105,4495,6210,3117.5 kcs
ILS Instrument Landing System.

(7 24) - Hours of operation (7 a.m. to midnight) on a 24-hour clock basis
→ - New or revised data.*

RADIO CLASS DESIGNATIONS

AC.....Approach Control Tower, CAA
B.....Scheduled Broadcast Station (broadcasts weather reports at 15 and 45 minutes after the hour)
C.....Control Tower, CAA
CA.....Control Tower, Army
CI.....Control Tower, (City,County,Private, etc.)
CN.....Control Tower, Navy
D.....Distantly controlled
FM..... VHF fan type marker (100 watts)
FMK..... Compass locator station when combined with fan marker
GCA.....Ground control approach system
H.....Non-directional radio-beacon (homing), power 50 watts or more
ILS..... Instrument Landing System
IM..... VHF boundary marker
K..... Independent compass locator station
LFM..... VHF fan-type marker, low powered (5 watts not over 10 miles from range)
MH..... Non-directional radio-beacon(homing),power less than 50 watts
ML..... Range (loop radiators), power less than 50 watts
MMK.....Compass locator station when combined with middle marker of Instrument Landing System
MRA..... Range (adcock , vertical radiators), power more than 50, less than 150 watts
MRL..... Range (loop radiators), power more than 50, less than 150 watts
OM..... VHF outer marker
OMK..... Compass locator when installed at outer marker site or within 5.5 miles of middle marker.
P.....Point to point radio
RA.....Range (adcock, vertical radiators) power 150 watts or more
RL.....Range (loop radiators), power 150 watts or more
S..... Simultaneous transmission of range signals and voice
T.....Teletype
TX.....Principal teletype
V.....Voice communication with aircraft
VAR.....Visual-aural VHF range
W..... Without voice facilities
Z.....VHF station location marker at a range station.

N.B. Variation is computed at the station. The distance from station to field is computed from the center of the range station to the nearest edge of the usable area of the airport. The bearing is that from the range station to airport or fan marker.

RADIOTELEGRAPH CODE

A ·—	D —··	G ——·	J ·———	M ——	P ·——·	S ···	V ···—	Y —·——
B —···	E ·	H ····	K —·—	N —·	Q ——·—	T —	W ·——	Z ——··
C —·—·	F ··—·	I ··	L ·—··	O ———	R ·—·	U ··—	X —··—	

AIRWAY RADIO COMMUNICATIONS

GENERAL

All radio range stations (class RA, RL, MRA, MRL, ML) emit directional signals (type A2 emission) 1020 cycles per second modulation.

All radiobeacon stations (class H and MH) emit non-directional signals (type A2 emission 1020 cycles per second modulation. Unless otherwise noted, all stations, other than class MH, operate continuously within their assigned hours of service except during interruptions for voice transmission on the same frequencies where simultaneous transmission is not available and during shutdowns for maintenance purposes. Class MH stations operate on request unless otherwise cited. The effective range of an MH facility is ordinarily 25 miles.

Compass locators are low-powered nondirectional facilities operating in the 200-415 kc.band. They are installed near airports to make it easier for pilots to make instrument approaches. When holding is required, they also help the pilot follow a more precise holding pattern. Compass locators, however, should not be depended upon as long range navigational aids since they are rarely useful at distances of over 15 or 20 miles.

Voice communications facilities are available unless "W" (without voice) is included in the classification. Examples. SMRAW, MRLW, HW, HWT. Transmission of voice on a frequency other than the range frequency is indicated as MRLW-V. When no "W" is included in station class, the "V" indicates voice feature on two frequencies, namely, range frequency and, generally, V.H.F. of 116.1 mcs.

The classification designation "B" denotes that the station broadcasts airway and meteorological information on a scheduled basis at 15 and 45 minutes past each hour.

All Civil Aeronautics Administration stations equipped for voice communications with aircraft stand continuous listening watches on the frequencies of 3105, 4495, and 6210 kcs., unless otherwise cited.

AUTOMATIC RANGE MONITORING SYSTEM

The automatic range monitoring system will automatically notify all pilots using a range on which it is installed, whenever an abnormal condition exists on the final approach course, the only course monitored at the present time.

The notification, or warning signal, will consist of the slow transmission of one group of three "U"s (. . - . . - . . -), between two station identification transmissions. This warning signal will be transmitted: (a) whenever a course displacement of 3° or more exists; (b) whenever a sudden and large loss of signal strength occurs; (c) or whenever an apparent on-course signal (loss of N-A keying, producing a monotone which sounds like an on-course signal) exists throughout all quadrants

Loss of signal strength is obvious, and loss of N-A keying is easily ascertainable by the pilot whenever the three "U"s identify an abnormal condition. The flier should suspect course displacement upon hearing the warning signal, if there has been no drop in range signal strength and the interlocked N and A on-course signal is well defined. On the other hand, the loss of N-A keying is indicated by warning transmission once only, when normal identifications are also missing.

In the case of range course displacement, the greater the course displacement, the earlier in the period between station identification transmission will the "UUU" signal be heard. An occasional warning signal transmission not repeated in every cycle, followed by the normal identification, may be disregarded since it may be occasioned simply by momentary power fluctuations.

INSTRUMENT LANDING SYSTEMS

An Instrument Landing System comprises a localizer (possibly a glide path), and a boundary, middle, and outer marker. Infrequently, the middle or boundary marker is not commissioned at present and future installations will have no boundary markers. The entire system of transmitters (localizer, glide path, and markers) operate on V.H.F. All markers operate on 75 mcs.

Compass locator stations, on the other hand, operate on the low frequency 200-415 kilocycle band. Compass locator data will be found under marker data on the second line of those stations having such facilities. These are, with rare exceptions, located at the same sites as the V.H.F. markers, and have single letter identifications

The localizer course of the Instrument Landing System divides the blue sector (150 cycles), which is to the right of the course in respect to the landing aircraft on final approach, from the yellow sector (90 cycles), which is left.

* UNDER THE HEAVY BLACK LINE FOUND IN THE THE RADIO SECTION OF THE DATA PAGES WILL BE LISTED OUT OF ALPHABETICAL ALIGNMENT. ALL THE NEW RADIO FACILITIES TABULATED AFTER THE TYPE OF THAT PAGE HAD BEEN ORIGINALLY SET UP

VHF RADIO RANGES

Simultaneous Visual-Aural VHF Radio Ranges have two visual and two aural courses with simultaneous voice transmission on the range frequency. A range of this type operates in the band 112 to 118 mcs. (Certain stations have been temporarily assigned the following frequencies: 108.3 mc, 108.7 mc, 109.1 mc.). Modulation frequencies of 90 cps and 150 cps are used to produce the visual courses. The sector in which the 90 cps modulation predominates is to be known as the "Yellow Sector" and that in which the 150 cps modulation predominates is to be known as the "Blue Sector". The aural courses are produced through the use of "N" and "A" signals with modulation frequency of 1020 cps.

VHF RADIO RANGE ORIENTATION: The assignment of the blue and yellow sectors and the "A" and "N" sectors of CAA VHF radio ranges is accomplished in accordance with the following rules:

(a) On Green and Red Airways, the blue sector lies north of the visual course, the yellow south; the "N" sector lies to the east of aural course; the "A" west.

(b) On Amber and Blue Airways, the blue sector lies west of the visual course, the yellow east; the "N" sector lies to the north of the aural course, the "A" south.

(c) The visual courses are projected along the airway, the aural courses across the airway.

U. S. WEATHER BROADCASTS AND TRANSMISSIONS

All continuously operated CAA Radio Range and Radio Beacon Stations having voice facilities on the Range or Radio Beacon Frequencies broadcast weather reports at 15 and 45 minutes past each hour.

At each station the material broadcast consists of the local weather report and the latest available surface weather reports from surrounding locations. Reports more than one hour old are not broadcast.

FILING OF "OVER" REPORTS

Pilots should make every effort to file "over" reports when passing over those points designated as "Radio Fixes" on the Radio Facilities Charts. Refer to Chart Legend.

Pilots of aircraft operating on contact flight rule flight plans who desire to make flight progress reports shall include in the report the phrase "CFR" flight plan from _____ to _____

Pilots of aircraft operating on instrument flight rule flight plans and who are required, therefore, to make flight progress reports, shall include in the report the phrase "Instrument flight plan". NOTE: The word "instrument", rather than the abbreviation "IFR" is used above to avoid confusion between the abbreviations "CFR" and "IFR" under difficult radio reception conditions.

RADIOTELEGRAPH CALLING PROCEDURE

Radiotelegraph (A2 emission), in addition to radiotelephone (A3 emission), may be used to call Civil Aeronautics Administration airway communications stations. Radiotelegraph (A1 emission) may be used, but its use will require a prearranged schedule since receivers at the stations are set for A2 and A3 emission only. The Civil Aeronautics Administration airway communication station will reply on the radio range voice channel except as otherwise provided. When calling Civil Aeronautics Administration airway communications stations, it is desired that the radio call letters of the station be used. However, the stations will be on the alert for calls consisting of the radio range identification (listed under "Station Identification"), which may be used after two calls by voice have not been answered by the Civil Aeronautics Administration airway communications station or when unusual circumstances prevail or during emergencies. For example: A pilot using the Richmond, Virginia, radio range who is unable to contact that station by voice, will radiotelegraph the following, using A2 emission: "RW RW RW K" Upon receipt of such a signal, the aircraft communicator at the Richmond radio range station will acknowledge on the voice channel of the radio range as follows: "UNIDENTIFIED AIRCRAFT CALLING RICHMOND RADIO OVER". The pilot then would resume use of voice for completion of the contact unless conditions require continuance of radiotelegraph. It is important that pilots use this procedure only after two unsuccessful attempts by voice to contact Civil Aeronautics Administration airway communications stations.

RADIOTELEPHONE (CALLING PROCEDURE)

When calling Civil Aeronautics Administration stations (except towers) or Army and Navy radio ranges, utilize the call "RADIO". When calling all airport control towers, be they Army, Navy, CAA, or municipal utilize the call "TOWER". When calling Army Airways, utilize the call "ARMY AIRWAYS". Examples:

(a) "Jacksonville Radio This Is Stinson 1234"..... When calling a radio range
(b) "Jacksonville Tower This Is Waco 4567"..... When calling a control tower
(c) "Jacksonville Army Airways This Is Army 725"..... When calling an Army Airways Communications Station
(d) "Langley Army Radio This Is Army 472"..... When calling an Army radio range

COMBINED UNITED STATES-BRITISH RADIOTELEPHONE (R/T PROCEDURE)

This new procedure has previously been adopted by the War and Navy Departments for use by military aircraft and became effective June 1, 1943, for use by Civil Aeronautics Administration airway communications stations and airport traffic control towers and civilian aircraft. Military pilots may secure complete information from Army publication FM24-9. The major changes in procedure are summarized below for the benefit of civilian pilots not having access to FM24-9.

1. Use of the words "THIS IS" instead of the word "FROM".
2. Use of the word "OVER", instead of the words "GO AHEAD", to indicate, " MY TRANSMISSION IS ENDED AND I EXPECT A RESPONSE FROM YOU".
3. Use of the word "OUT" when conversation is ended and no response is expected.
4. Use of the phrase "SAY AGAIN", instead of the word "REPEAT" when requesting a repetition.
5. Use of the phrase "I SAY AGAIN", instead of the phrase "I WILL REPEAT", when a repetition is being given.

Examples:

WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO OR CLEVELAND TOWER MESSAGE FOR YOU (Optional) OVER

CLEVELAND RADIO or CLEVELAND TOWER. THIS IS WACO ONE FOUR THREE SEND YOUR MESSAGE (Optional) OVER

WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER (Message) OVER

CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE ROGER OUT.

Pertinent parts of all current publications, including Manual 60, are superseded insofar as communications procedures are concerned by the new procedure indicated above effective June 1, 1943.

AIRPORT DATA
LEGEND

NAME

(When city and airport names are identical, the airport name is omitted in the interest of space-conservation)

(A) Airport owned or leased in whole or in part by Army
(N) Airport owned or leased in whole or in part by Navy
★ CAA Intermediate Field
(P) Non-military airport available for use by military aircraft (See note 3)

N. B. If the airport name is followed by an (A) for Army or (N) for Navy, the field is exclusively an Army or Navy field. If the field is not exclusively Army or Navy and may be used by civilians, no (A) or (N) follows the airport name.

SIZE CLASS

40: Length of longest landing strip (unpaved) in hundreds of feet
40h: Length of longest hard-surfaced runway in hundreds of feet (Seaplane landing areas over 5 miles in length are classified as unlimited and indicated as "unl.").

N.B. Only the length of the longest runway is cited, and its direction is not indicated. Space restrictions occasioned this policy, but logic justified it. The logical assumption may be made that runways have been laid out in accordance with the local wind rose. Therefore, in all calms, or gentle-angling winds, or winds aligned with the longest runway, the longest runway will be used. When a wind not aligned with the longest runway is of such intensity that the longest runway cannot be used, this wind makes the use of runway aligned with the wind, even though much shorter than the longest runway, sufficiently long from a safety viewpoint. Too, prior knowledge that there is, for example, a NW/SE runway is of little value to a pilot if, when he arrives over the field the wind is blowing too strongly from another direction to use that runway. Finally, the larger the number indicating the longest runway length, the greater is the assurance of a sufficient number of runways for all-wind coverage.

RADIO

R1: Voice availability via tower, range (or homing device), or voice station.
R2. Range (or homing device), and tower
R3: Range (or homing device) tower, and instrument landing system.

LIGHTS

L1: Beacon only.
L2: Beacon and boundary.
L3: Beacon, boundary, and obstruction.
L4: Beacon, boundary, obstruction, and flood.
L5: Beacon, boundary, obstruction, flood, and runway contact.
L6: Beacon, boundary, obstruction, flood, runway contact, and instrument approach.

("L" without a numeral indicates incomplete lighting, such as "flood lights only" or "temporary portable runway lighting only". The class always indicates the highest element available but does not necessarily include all intermediate elements).

SERVICING

S1: Fuel.
S2: Fuel, storage.
S3: Fuel, storage, minor aircraft repairs.
S4: Fuel, storage, minor aircraft, and minor engine repairs.
S5: Fuel, storage, major aircraft, and minor engine repairs.
S6: Fuel, storage, major aircraft, and major engine repairs.

N B Very often small civilian fields (particularly in non-metropolitan areas) will have no full-time attendant. Frequently servicing at such fields in isolated communities is available only by circling the town to attract the operator's attention.
These fields are often recognizable by airport class, comparable to, for example, "1B S1". "1B S1" suggests that the field is not too large, and that the field may not have a full-time attendant even though fuel is stored there.
Lack of radio or lighting facilities, indicated by the absence of an "R" or "L" in the airport class, is a further indication that a full-time attendant may not be available. Absence of an "S" (servicing) indicates definitely that fuel, if available at all, is available only by truck from town. Any field carrying no indication of radio (R), lights (L), or servicing (S) in airport class column should be used with caution, especially a field of the small category. Fields of this nature may be inactive or not maintained, and thus dangerous for use.

NOTES

1. "(NC)" not charted. Indicates not charted because of insufficient data or inability to verify
2. ⟶ New or revised data. *
3. "(P)" in CITY-AIRPORT NAME column indicates (1) those municipal airports improved with public funds and covered by an agreement between the municipality and the United States Government permitting government planes to use such fields in common with others and without charge, to the extent possible without restriction of non-military operations or (2) other civil airports for which legal permits covering their limited use by military aircraft have been procured and filed with the real estate agency of the War Department.
4. ★ "Effingham Int., 10, LS-1L" in CITY-AIRPORT NAME column indicates that the airport is Effingham CAA Intermediate Field, Site 10, on the St. Louis-Indianapolis Airway. Municipal airports where the lights are maintained by the CAA are listed similarly except that there is no prefixed star or "Int.".
5. In location column, the word "miles" has been eliminated because of space limitations. Mileage is that from the center of city to airport.
6. In Remarks column:
   (a) "91 oct." indicates octane rating of fuel available.
   (b) "CLOSED" indicates closed to all transient military aircraft, except on official business this station or in emergency.
   (c) "Port. B-2 lights" indicates cone-mounted lights outlining runways. These lights are portable and may be shifted from runway to runway.
   (d) "INACTIVE" indicates field is on temporarily inactive status as regards military use and that Army or Navy facilities have been discontinued. Use of Army fields in this status is to be as indicated by Special Notice on first page of the Notices to Airmen section, and in notices published under heading of field. Use of Navy fields is indicated under field heading.
   (e) "PRIVATE" indicates field is available for owner only, and not to be used by others except in emergency.
   (f) OBSTRUCTIONS: Because of space limitations only the more dangerous obstructions are indicated. Natural obstructions, like trees, clearly discernible for contact operations, are frequently omitted, for example. On the other hand, all pole lines are cited.
   (g) "Fld. lgts on prior req." indicates field light are available only by previous phone call, telegram, or letter. It must be remembered that most fields do not have 24-hour operation. Accordingly, the field lights, indicated for such a lighted field (and, in some instances, even the rotating beacons) are available only by prior request. When an airport classification indicates a lighted field, and there is no notation in the REMARKS column, the field lights burn all night or will be turned on when a radio request is made or a plane circles the field.
   (h) "FEE" indicates landing fee for private aircraft.
7. Airline stop airport names are capitalized.

(N) NAVAL FLIGHT OPERATION ON FLD.

COLUMNAR EXPLANATION

AIRPORT NAME-CITY	LOCATION	ELEV.	CLASS	REMARKS
(N) LA GUARDIA FLD (NEW YORK)	2 NW: lake E	1585	65h R1 L5 S6	73-100 oct. CLOSED NATS

CLOSED TO TRANSIENT MILITARY AIRCRAFT EXCEPT ON OFFICIAL BUSINESS WITH FIELD

MILEAGE AND DIRECTION FROM CENTER OF CITY

ADJACENT IDENTIFYING OR ORIENTING FEATURES

ELEVATION OF AIRPORT ABOVE SEA LEVEL

NAVAL AIR TRANSPORT SERVICE STOP, OR NATS BASE

65h - LENGTH OF LONGEST HARD-SURFACED (h) RUNWAY IN HUNDREDS OF FEET
R1 - RADIO VOICE FEATURE: VIA TOWER, RANGE, OR VOICE STATION
L5 - LIGHTING: BEACON, BOUNDARY, OBSTRUCTION, FLOOD, AND RUNWAY CONTACT LIGHTS
S6 - SERVICING: FUEL, STORAGE, MAJOR AIRCRAFT AND ENGINE REPAIRS.

FUEL AVAILABILITY: ALL OCTANES 73 THRU 100

AIRPORT NAME ABBREVIATIONS

(A) - Army Field
AAB - Army Air Base
AAF - Army Air Field
CGAS - Coast Guard Air Station
(N) - Navy Field
NAAF - Naval Aux. Air Facility
NAAS - Naval Aux. Air Station
NAF - Naval Air Facility
LTA - Lighter than Air
MCAS - Marine Corps Air Station
MCAAF - Marine Corps Aux. Air Facility
MCGB - Marine Corps Glider Base
NAS - Naval Air Station
NPG - Naval Proving Grounds
OLF - Outlying Field (Navy)

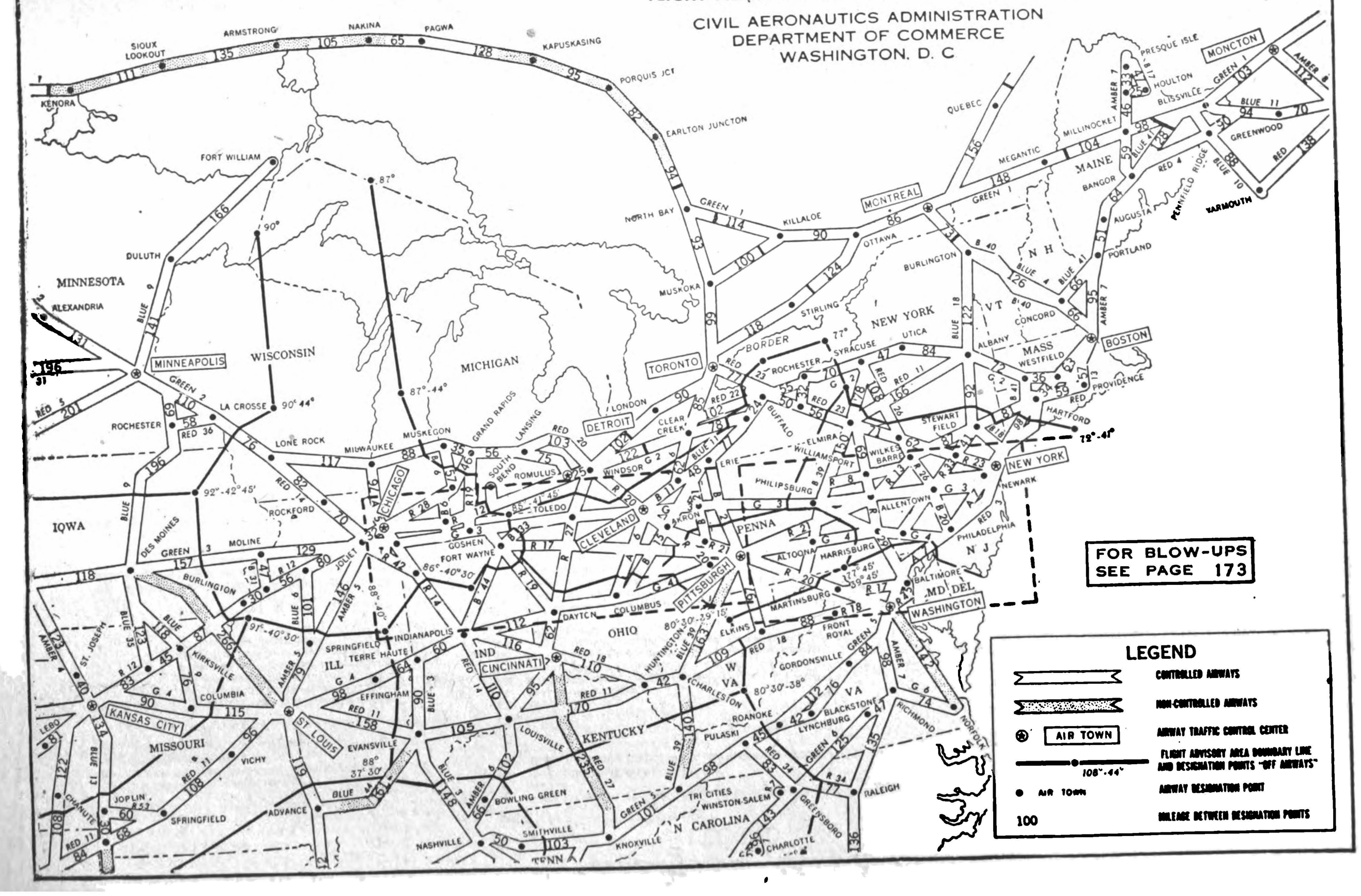
* UNDER THE HEAVY BLACK LINE FOUND IN THE AIRPORT SECTION OF THE DATA PAGES WILL BE LISTED, OUT OF ALPHABETICAL ALIGNMENT, ALL THE NEW AIRPORTS TABULATED AFTER THE TYPE FOR THAT PAGE HAD BEEN ORIGINALLY SET UP.

NORTH EAST QUADRANT

CIVIL AIRWAYS AND MILEAGE CHART

INCLUDING UNITED STATES AND CANADIAN FLIGHT ADVISORY AND TRAFFIC CONTROL AREAS

CIVIL AERONAUTICS ADMINISTRATION
DEPARTMENT OF COMMERCE
WASHINGTON, D. C

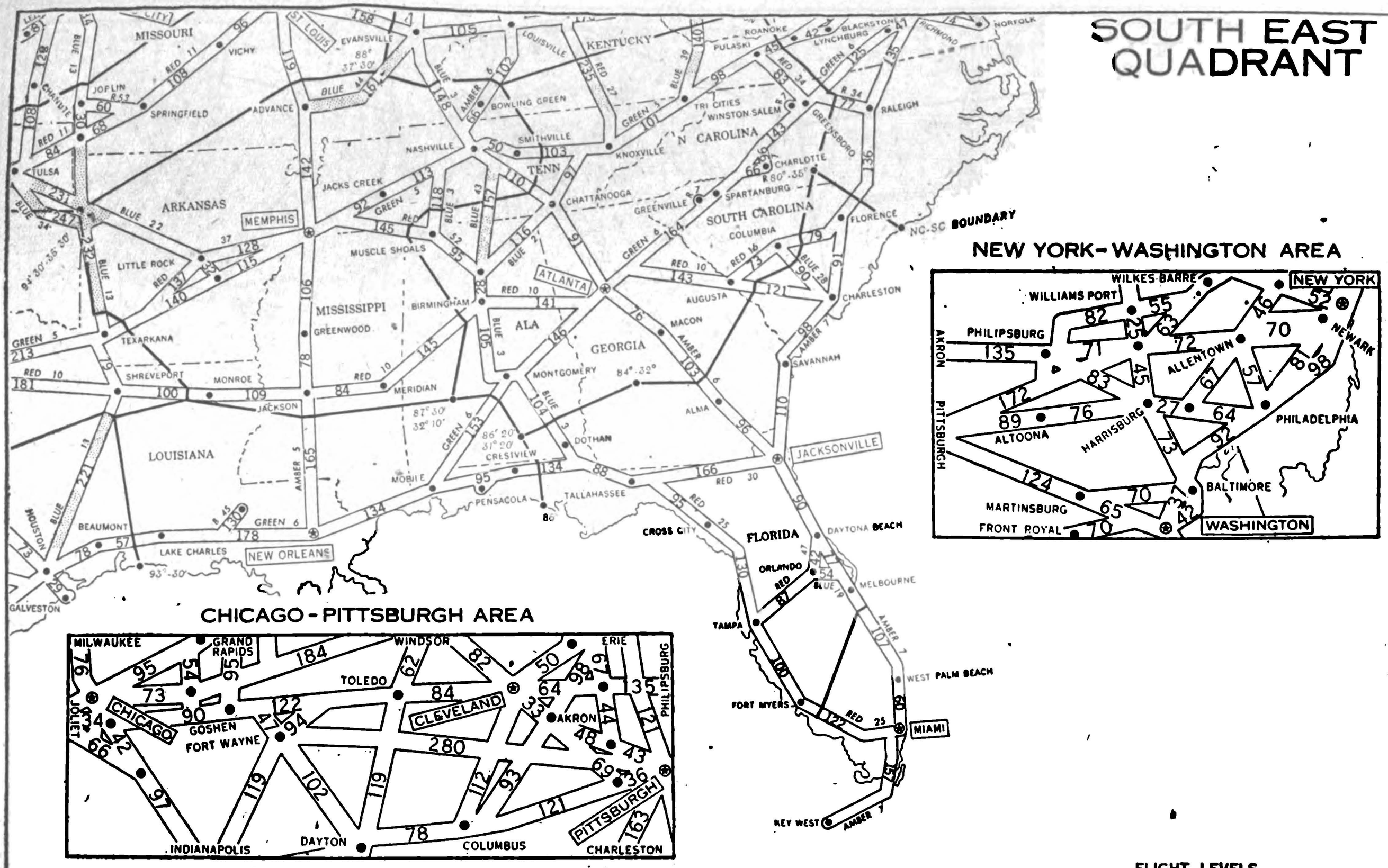


FOR BLOW-UPS
SEE PAGE 173

LEGEND

- CONTROLLED AIRWAYS
- NON-CONTROLLED AIRWAYS
- AIR TOWN — AIRWAY TRAFFIC CONTROL CENTER
- 108°-44° — FLIGHT ADVISORY AREA BOUNDARY LINE AND DESIGNATION POINTS "OFF AIRWAYS"
- AIR TOWN — AIRWAY DESIGNATION POINT
- 100 — MILEAGE BETWEEN DESIGNATION POINTS

SOUTH EAST QUADRANT



NEW YORK - WASHINGTON AREA

CHICAGO - PITTSBURGH AREA

ARMY FLIGHT ADVISORY AREAS

OLMSTED FIELD ENCOMPASSES BOSTON, NEW YORK, PITTSBURGH, & **WASHINGTON C.A.A. AREAS**
MacDILL FIELD ENCOMPASSES JACKSONVILLE, & MIAMI C.A.A. AREAS
WRIGHT FIELD ENCOMPASSES DETROIT, CLEVELAND, CINCINNATI, ST LOUIS, & **CHICAGO C.A.A. AREAS**
MAXWELL FIELD ENCOMPASSES MEMPHIS, NEW ORLEANS, & ATLANTA C.A.A. **AREAS**
LOWRY FIELD ENCOMPASSES DENVER, MINNEAPOLIS, & KANSAS CITY C.A.A. **AREAS**
FORT WORTH ENCOMPASSES SAN ANTONIO, & FORT WORTH C.A.A. AREAS
McCHORD FIELD ENCOMPASSES SEATTLE, & GREAT FALLS C.A.A. AREAS
HAMILTON FIELD ENCOMPASSES OAKLAND, & SALT LAKE CITY C.A.A. AREAS
MARCH FIELD ENCOMPASSES LOS ANGELES, ALBUQUERQUE, & EL PASO C.A.A. AREAS

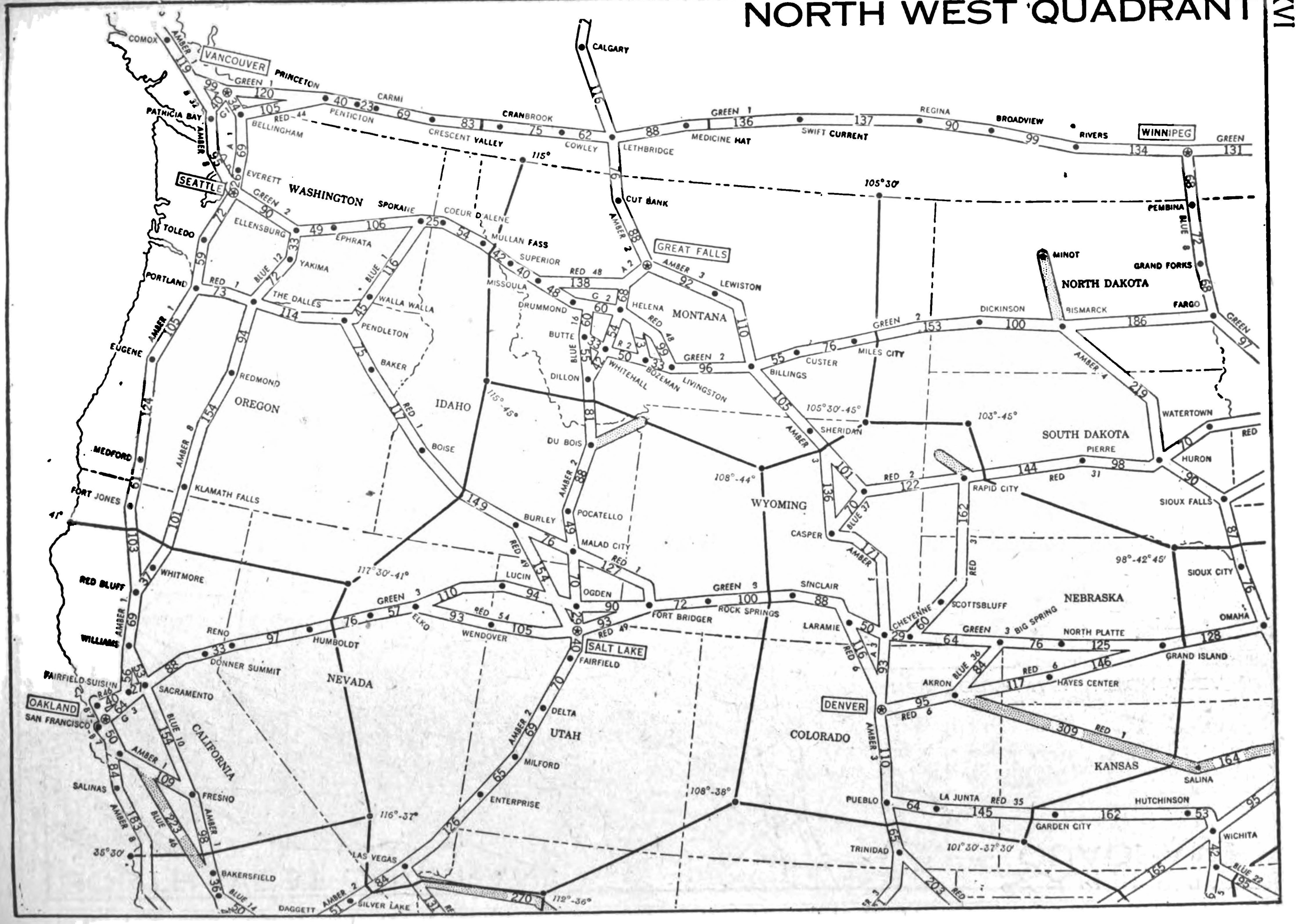
FLIGHT LEVELS

GREEN AND RED CIVIL AIRWAYS
EASTBOUND - ODD THOUSAND FOOT LEVELS
WESTBOUND EVEN THOUSAND FOOT LEVELS
AMBER AND BLUE CIVIL AIRWAYS
NORTHBOUND - ODD THOUSAND FOOT LEVELS.
SOUTHBOUND - EVEN THOUSAND FOOT LEVELS

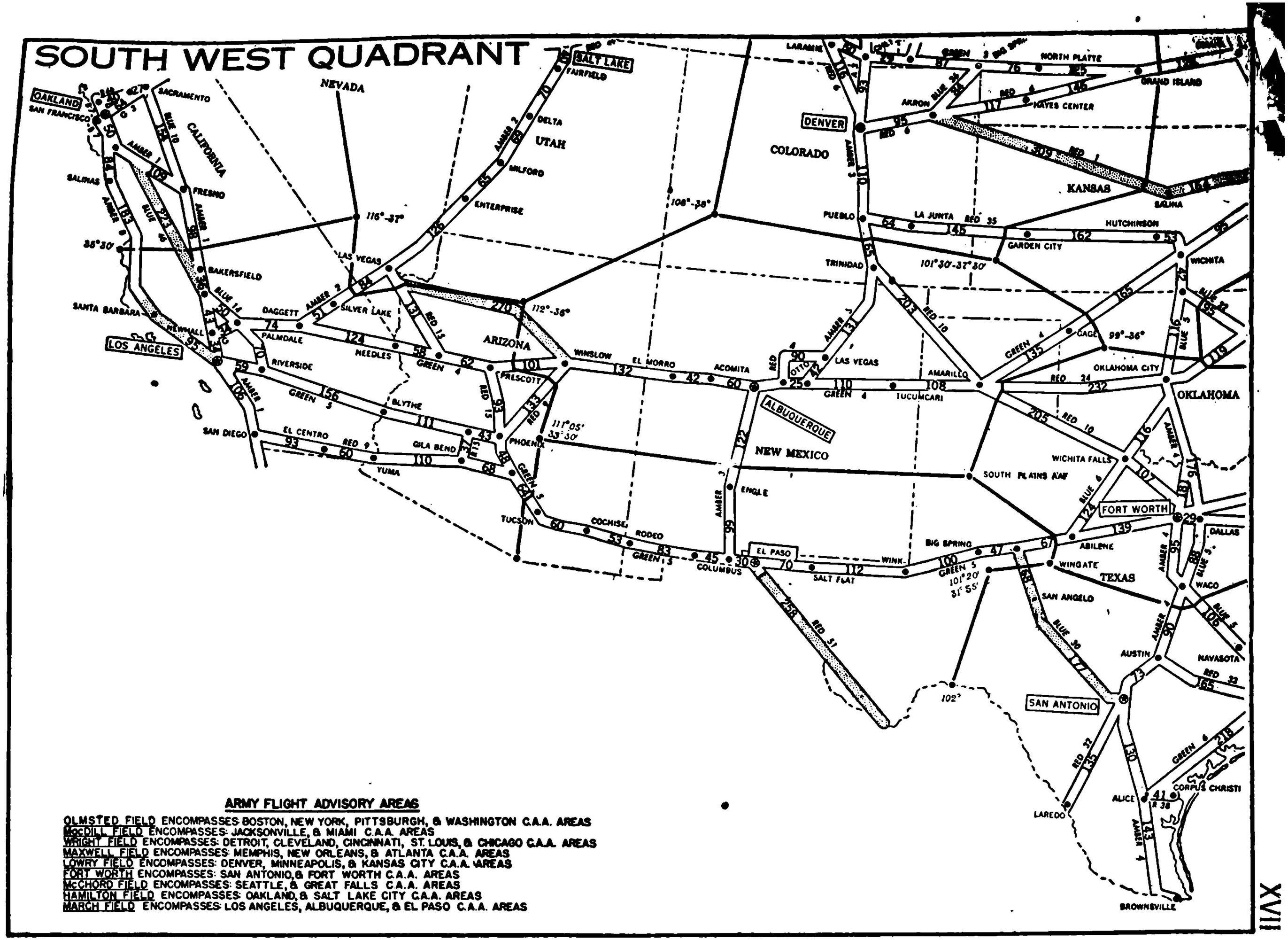
IX

NORTH WEST QUADRANT

XVI



SOUTH WEST QUADRANT



ARMY FLIGHT ADVISORY AREAS

OLMSTED FIELD ENCOMPASSES BOSTON, NEW YORK, PITTSBURGH, & WASHINGTON C.A.A. AREAS
MacDILL FIELD ENCOMPASSES: JACKSONVILLE, & MIAMI C.A.A. AREAS
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HAMILTON FIELD ENCOMPASSES: OAKLAND, & SALT LAKE CITY C.A.A. AREAS
MARCH FIELD ENCOMPASSES: LOS ANGELES, ALBUQUERQUE, & EL PASO C.A.A. AREAS

FLIGHT PLANNING CHARTS

LEGEND

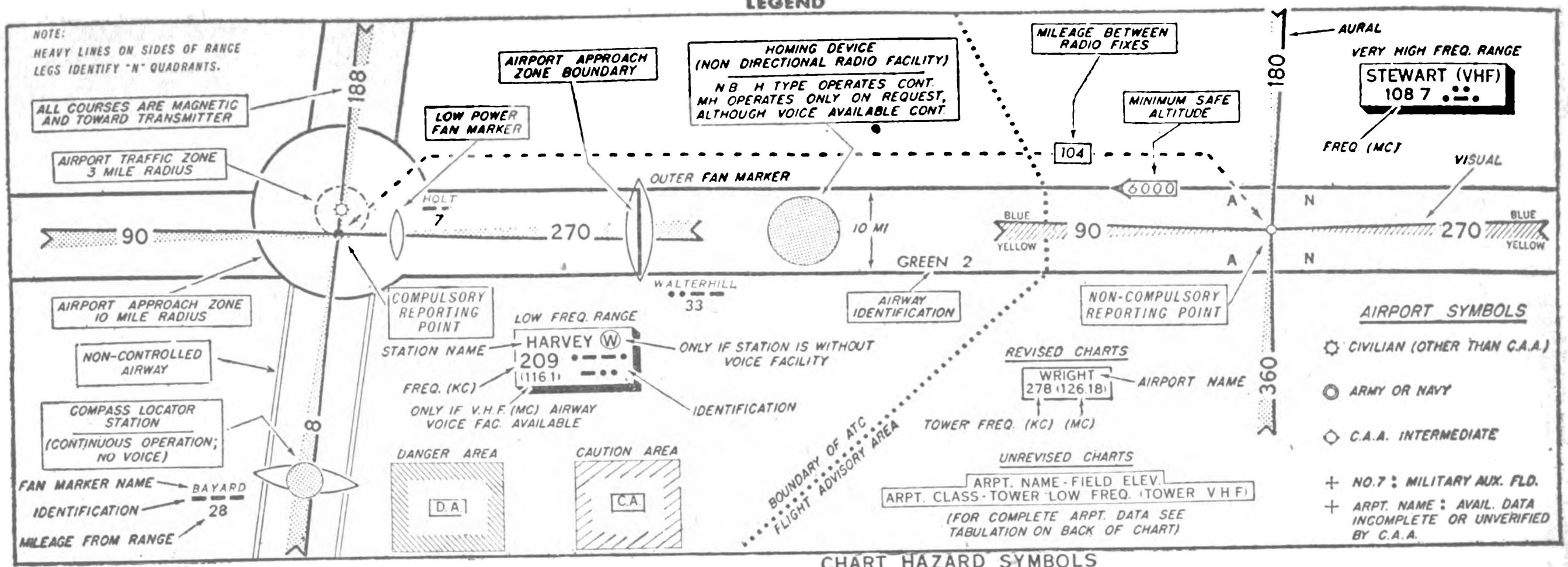


CHART CONTENTS

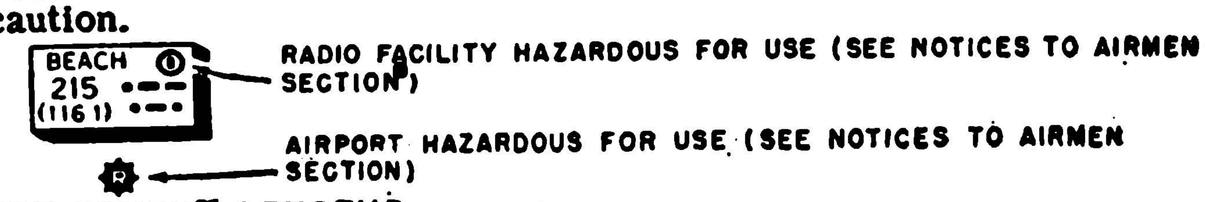
The Flight Planning Charts, in addition to the warning (R) and caution (O) symbols, indicate: (1) all aeronautical radio facilities except air carrier stations; (2) all minimum safe altitudes and fix mileages: (3) all Army and Navy fields and CAA intermediate fields, and all active civilian airports; (4) all danger and caution areas; (5) all designated airways. These charts indicate all facilities, and the current status thereof, on record with the CAA as of 0001 E.S.T. each alternate Tuesday.

CHART PURPOSE & USE

The primary purpose of these charts is to facilitate the planning and execution of cross-country flights. The user should check the charts for the symboled (R) or (O) items between his point of departure and his destination. If there is none, there is no necessity for him to read the Notices to Airmen section as far as temporary items are concerned. As for permanent changes - all major ones, such as new fields, abandoned fields, range frequency changes, etc., are currently reflected on the charts. For record-keeping purposes and for the correction of charts and publications, however, the Notices to Airmen section should be carefully read.

CHART HAZARD SYMBOLS

The current status of facilities and hazards as reported to the CAA is indicated by the symbol system. An airport closed because of construction, an inoperative range, a revised range quadrant identification or range frequency, or course realignment of 20° or more, for example, are indicated by the symbol (R) for red, or warning. An airport under construction but usable, or an inoperative control tower, on the other hand, is indicated by the symbol (O) for orange, or caution.



RANGE COURSE LENGTHS

In general, the length of radio range courses shown herein indicates the approximate location where it is expected that a pilot will tune from one radio range to the next one along his route of flight. Such change-over points, however, are not mandatory, and it is expected that a pilot will use his best judgment in selecting change-over points that will best serve his needs.

Warning

Radio range courses are subject to disturbances that result in multiple courses, and signal fades and surges over rough country. Pilots flying over unfamiliar routes are cautioned to be on the alert to detect these vagaries, particularly over mountainous terrain.

SEATTLE

RADIO

OREGON

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAY OCEAN FM (Navy)	(- - - -)	FM, 303°,7.5	Tillamook NAS
EUGENE (Mahlon Sweet)	251 (EU)	SBRAZ-DT,150°,4.5	(4)
PORTLAND (AAB)	332 (PD)	SBRAZ-DT,171°,3.1	(3)
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
REDMOND (Roberts)	368 (RG)	SBRAZ-DT 101°,4.3	(4)
THE DALLES	230 (ND)	SBRAZ-DT,251°,2.8	(4)
TILLAMOOK (Navy)	520 (NFS)	BMRLZ	3105,4495
Tillamook NAS	278 (142.74)	CN, 123°, 2.5	(3); 142.74 (8-1630)
WILLAMETTE FM	(- - - -)	FM, 76°, 20.6	Portland
WASHINGTON			
BELLINGHAM	209 (J J)	SBRAZ-DT,114°,3.3	(4)
CAMANO ISL, FM (Navy)	(- -)	FM,123°, 9	Whidbey Island NAS
DUNGENESS FM	(- - - -)	FM, 296°, 62	Seattle
EASTON (Int.)	278 (TP)	MHT	(4)
ELLENSBURG (Bowers)	385 (EB)	SBMRAZ-DT,270°,2	(4)
EVERETT (Paine)	224 (MI)	BMRL Z-DT,330°,3.1	(4);116.1
HOBART FM	(- -)	FM, 88°,15	Seattle
KELSO	266 (HP)	MHT	(4)
LAKEVIEW FM	(- - -)	FM, 175°,25.5	Seattle
McCHORD, (Tacoma) (Army)	272 (DTA)	BMRL; 26°, 1.7	
MONROE FM	(-)	FM, 5°, 30	Seattle
MOUNT VERNON OLF (NC)	3295 (126.18) (142.74)	CN	3105,4495;126.18,142.74 (24 hrs adv notice only)
NEAH BAY	362 (KQ)	SRAWZ	
PORT ANGELES CGAS	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
SEATTLE (King County)	260 (SA) (116.1)	SBRAZ-VOTX, 296°,3.3	(3);116.1
STEVENSON	347 (LZ)	MHT	(4)
TOLEDO (Int.)	239 (GL)	BMRLZ-DT,236°,3	(4)
WASHOUGAL FM	(-)	FM, 63°,17.5	Portland, Oregon
WHIDBEY ISLAND (Navy)	353 (NUW)	BMRLZ	(3)
Whidbey Island NAS	278 (142.74) (126.18)	CN, 303°,3.5	(3);142.74,126.18,Tr.and gds 116.1,140.58 req.(GCA)
WHIDBEY ISLAND NAS (NAVY)	522 (K)	MH	(4) Cont.
Whidbey Island NAS (Seaplane)	2870 (142.74)	CN	(3),3155;142.74 (24 hrs advance notice)
WOODLAND FM	(- - - -)	FM, 331°,23	Portland, Oregon
YAKIMA	320 (YA)(116.1)	BMRLZ-VDT	(3); 116.1
Yakima County Arpt.	278 (118.5)	C;267°,4.7	(4);118.5,131.9,142.74

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

OREGON

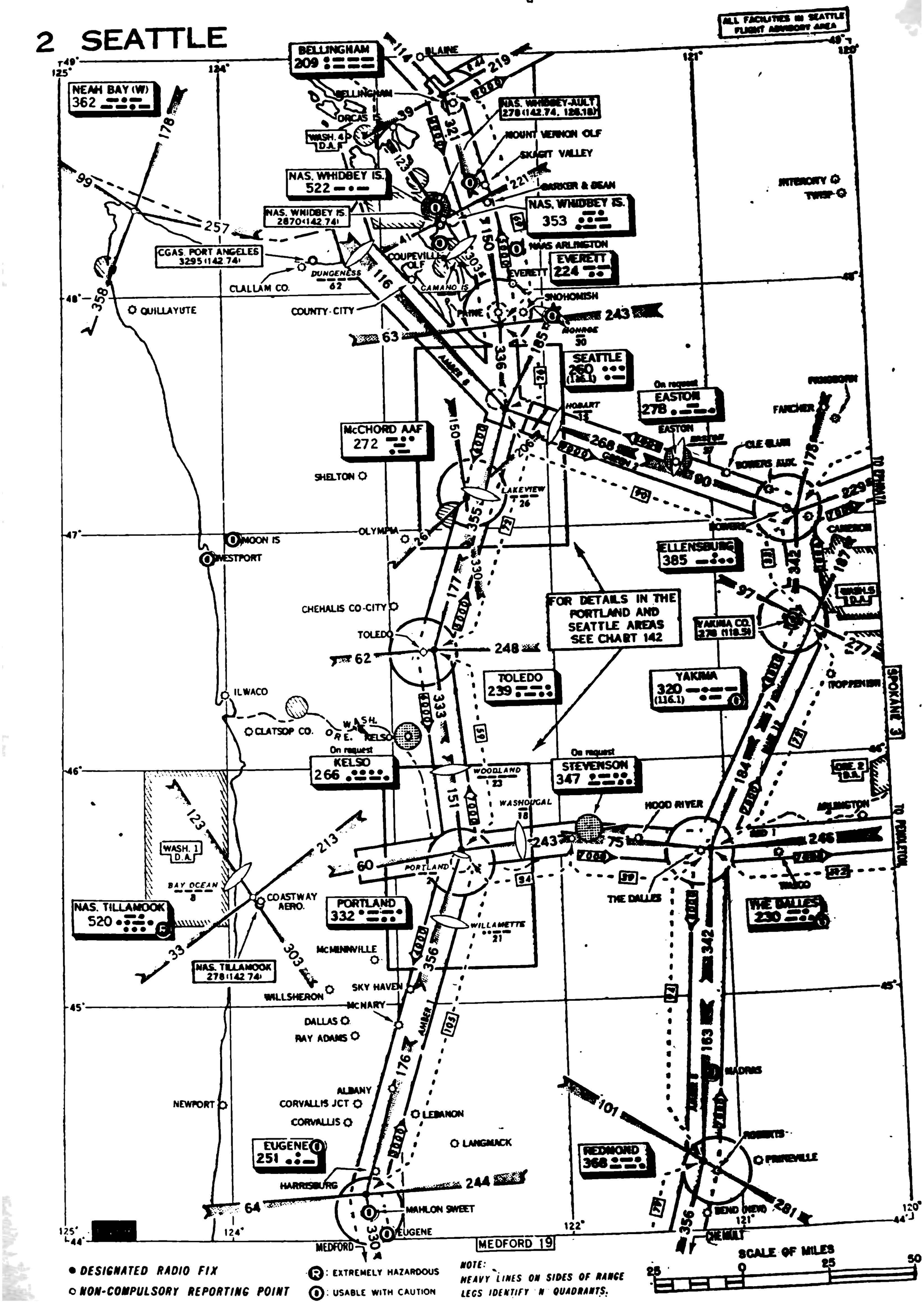
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Silverton)	1.2 NW;RR E	210	33	Brush N.
Albany	2.5 NE;RR NW	212	26 S6	73,80 oct.Poles W, SW.
★ Arlington Int,12B,PD-SM	1.4 ENE; riv NW	882	50 L3	
Bend (new)	5.5 ENE;hwy S	3429	34 S6	80 oct.Pwrline SE,Use strips.
Bend (old) (NC)	7.8 N; hwy E	3350	44	Poleline W, NW.
(P) Clatsop Co.(Astoria)	3.5 W;riv E	10	57h	
Coastway School of Aeronautics (Tillamook)	1.4 E;hwy W	55	29 S2	80 oct.
Corvallis	4.9 SSW; RR E	245	52h S6	80,91 oct.
Corvallis Junction	1.3 NNE;RR W	240	20 S1	Ltd 73 oct
Dallas (new)	1.2 N;RR S	400	23	Poles WSW.
Dallas (old)(NC)	1.6 E;RR S	300	23	UNUSABLE;Under cultivation.
Eugene Airpark	1.6 SW;rd W	420	28 S6	73,80 oct.
Harrisburg	2 NNE; RR E; W	300	25	
Hood River	2.5 S;riv E	605	13	Lgt acft only.
Langmack (Sweet Home)	2 E;hwy N	550	24	Poles W.
Lebanon	1.3 SW;RR E	340	20 S2	80 oct.
(A) Madras	2 NNW;RR SE	2420	74h	
MAHLON SWEET(Eugene)	8 NW; RR NE	365	52h R1 L5 S1	91 oct, Svcg week days only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii) (NC)-Not charted. → NEW OR REVISED DATA

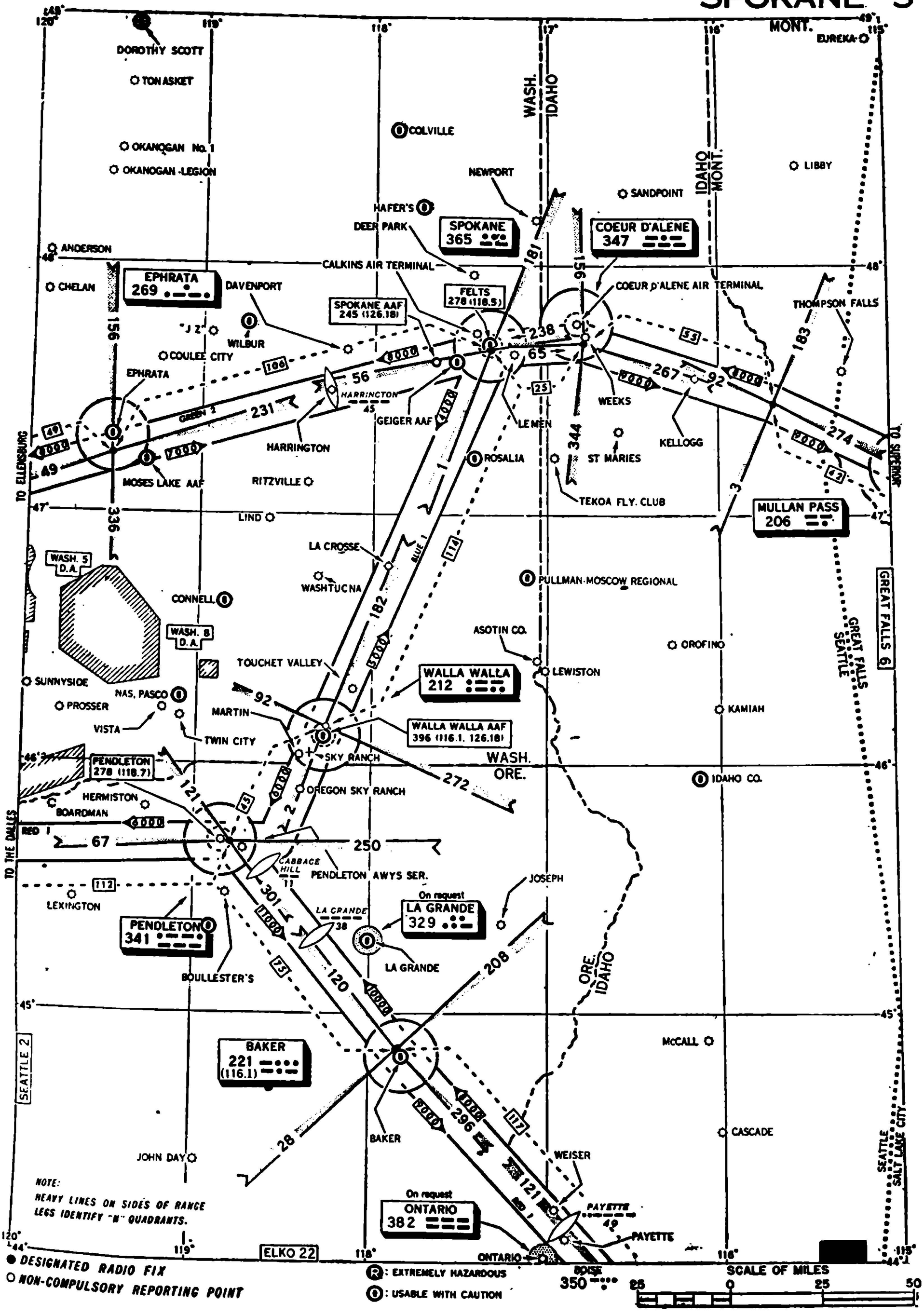
OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
McMinnville	3.1 ESE;hwy W	156	50h S1	Ltd 73,80 oct.
McNARY (Salem)	2.2 SSE;RR SW	207	55h L5 S4	80 oct.;91 oct,emerg,No sto
(P) Newport	4 S;ocean W	160	51h L5 S6	80 oct. No sto.
Prineville	2.9 SW;hwy SW	3240	37 S6	80 oct.
Ray Adams (Monmouth)	2.2 NNW;RR E	195	23 S1	80 oct.Cattle on fld.
(P) Roberts (Redmond)	1.5 SE;hwy N	3064	70h R1 S2	80 oct.
Santiam Junction Flgt Strip (Idanha) (NC)	21.5 SSE;hwys N	4000	30	Trees W,E.
Sky Haven (Brooks)	1.6 NE;RR W	180	17 S1	Ltd 80 oct.
The Dalles	1.7 NE	239	51h R1 L5 S6	80,91 oct.
(N) Tillamook NAS (N)	3 SE; riv N	35	50h R2 L5 S4	91 oct.Used by LTA;HTA.
Vernonia (NC)	2.4 WSW;riv S	620	29	
Wasco	0.4 E;RR SW	1420	18 S1	Ltd 80 oct.
Willsheron(Sheridan)	2.1 SSW;RR NNE	275	15 S1	80 oct.
WASHINGTON				
(N) Arlington NAAS (N)	3 SW;hwy W	129	50h	INACTIVE.
Barker & Dean (Mt. Vernon)	2.2 S;RR,riv W	4	20 S4	73,80 oct.No sto.Trees NW.
BELLINGHAM	4.5 NW;hwy E	158	50h R1 L5 S4	73 oct. No sto.Fld lgts prior req.ARPT OF ENTRY
Blaine	0.5 E;RR W	15	18 S1	80 oct.
(P) Bowers (Ellensburg)	2.5 NE;hwy S	1767	59h R1 L5 S6	80 oct.Ctc lgts prior req.
Bowers Aux.(Ellensburg)	8.6 NNW	2140	30	
Cameron (Kittitas)	0.5 N;RR S	1650	26 S2	80 oct.
(P) Chehalis Co.-City	0.6 NW;RR E	174	50h S6	80 oct.No sto.
Clallam County (Port Angeles)	2.9 WNW;RR NW	290	52h S2	80 oct.
Cle Elum	2.4 E;hwy S	1930	25 S4	80 oct.
County-City (Port Townsend)	5 SSW	110	33 S2	80 oct.Pole lines ESE,WNW ARPT OF ENTRY.
(N) Coupeville OLF (N)	2 SE	199	54h	
★ Easton Int,5B,SA-HL	1.7 NNW;RR SW	2221	30 R1 L2	Trees, mtns WNW.
Everett	2.7 NNE;riv N	15	21 S4	80 oct, 30' hangar W.
Fancher (Wenatchee)	2.5 NE;riv W	1440	33h L3 S6	80 oct.Fld lgts prior req.
Forks (NC)	1 SW;rd S	286	23	75' trees E.HAZARDOUS.
Goldendale (NC)	0.6 SE;RR W	1600	20	Poleline E,SE.Ditch center
Ilwaco	1.5 ENE;riv S	8	20 S2	80 oct. HAZARDOUS
Intercity,USFS (Winthrop	4 SSE;riv SW	1650	32 S1	73,91 oct.Mtns SE.
Kelso,61A,SF-SA	1.4 S;RR SW	25	29 R1 L2 S6	80 oct.Poles,trees NW.
Kenmore, (Bothell) (NC)	2.3 NW;rd E	420	17	12-14 brush NNE,SSW.
(P) Moon Island (Aberdeen)	6 W;harb. N,S	14	50h L5 S6	80,91 oct.
(N) Mt.Vernon OLF (N)	5 NW;RR S	146	53h R1	Pole line N,CLOSED
Olympia	4.5 S;hwy E	190	50h S4	80 oct.Trees W.
Orcas Island (E.Sound)	0.7 N;hwy E	25	12	
Paine (Everett)	6.5 SW;hwy NE	598	65h R1 L5 S6	80 oct,Fld lgts prior req.
PANGBORN(Wenatchee)	5.3 ESE;hwy S	1246	46h L5	Contact lgts prior req.
Pasayten.USFS (Winthrop)(NC)	38 NW;riv E	4250	28	Use in emerg.only. to public lgts prior req.
Port Angeles CGAS	2 NNE	13	45h R1 L5 S1	91,100 oct,No bcn,
Randle,USFS (NC)	1 ESE;riv S	940	13	Pwr line WSW,Cattle on fld.
Quillayute	0.7 NNW;8 W Forks	195	50h	
Shelton	2.5 NW;hwy ENE	278	52h	Tower NW.
Skagit Valley Air Svc. (Burlington)	0.7 S;RR E	35	20 S1	80 oct,Stack N.
Snohomish	0.9 SW;RR N	16	19 S4	80 oct,Poles,trees ESE.
Snoqualmie Pass (North Bend)(NC)	3.5 ESE;hwy S	680	24	Trees WNW,ESE.
★ Toledo Int,63B,SF-SA	3 NE;riv S	371	50h R1 L3	
Toppenish	3.2 SSW;hwy E	835	32 S5	80 oct.
Twisp	1.9 SE;riv S	1620	19 S1	80 oct,Trees,hills WNW.
Westport (NC)	0.5 N;harbor E	5	18 S1	80 oct.
(N) Whidbey Island NAS	3 NW Oak Harbor	24	70h R2 L6 S2	91,100 oct. (N)
YAKIMA COUNTY	2.8 SSW	1058	50h R2 L5 S6	73,80,100 oct.Poleline S.

2 SEATTLE


ALL FACILITIES IN SEATTLE FLIGHT ADVISORY AREA
BELLINGHAM 209
BLAINE
NEAH BAY (W) 362
BELLINGHAM
ORCAS IS.
WASH. 4 D.A.F.
NAS. WHIDBEY-AULT 278 (142.74, 126.1R)
MOUNT VERNON OLF
SKAGIT VALLEY
NAS. WHIDBEY IS. 522
BARKER & BEAN
NAS. WHIDBEY IS. 2870 (142.74)
NAS. WHIDBEY IS. 353
INTERCITY
TWISP
NAAS ARLINGTON
EVERETT 224
COUPEVILLE OLF
CGAS. PORT ANGELES 3295 (142.74)
DUNGENESS 62
CLALLAM CO.
CAMANO IS.
EVERETT
SNOHOMISH
QUILLAYUTE
COUNTY-CITY
PAINE
MONROE 30
SEATTLE 260 (126.1)
On request
EASTON 278
HOBART 13
FRANCHER
McCHORD AAF 272
EASTON
CLE ELUM
BOWERS AUX.
SHELTON
LAKEVIEW 26
MOON IS
OLYMPIA
WESTPORT
ELLENSBURG 385
BOWERS
CAMERON
CHEHALIS CO-CITY
FOR DETAILS IN THE PORTLAND AND SEATTLE AREAS SEE CHART 142
YAKIMA CO. 278 (118.5)
TOLEDO
TOLEDO 239
YAKIMA 320 (116.1)
ILWACO
CLATSOP CO.
WASH.
ORE.
KELSO
On request
KELSO 266
WOODLAND 23
On request
STEVENSON 347
WASHOUGAL 18
HOOD RIVER
ARLINGTON
WASH. 1 D.A.
BAY OCEAN 8
PORTLAND
COASTWAY AERO.
NAS. TILLAMOOK 520
PORTLAND 332
WILLAMETTE 21
THE DALLES
THE DALLES 230
McMINNVILLE
NAS. TILLAMOOK 278 (142.74)
WILLSHERON
SKY HAVEN
McNARY
DALLAS
RAY ADAMS
ALBANY
NEWPORT
CORVALLIS JCT
CORVALLIS
LEBANON
LANGMACK
EUGENE 251
REDMOND 368
MADRAS
ROBERTS
PRINEVILLE
HARRISBURG
MAHLON SWEET
EUGENE
BEND (NEW)
CHEMULT
MEDFORD
MEDFORD 19
SCALE OF MILES
25 0 25 50
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.

SPOKANE 3


DOROTHY SCOTT
TONASKET
OKANOGAN No. 1
OKANOGAN -LEGION
COLVILLE
WASH.
IDAHO
NEWPORT
HAFER'S
DEER PARK
SPOKANE 365
SANDPOINT
IDAHO
MONT.
EUREKA
LIBBY
COEUR D'ALENE 347
ANDERSON
CALKINS AIR TERMINAL
EPHRATA 269
CHELAN
DAVENPORT
FELTS 278 (116.5)
COEUR D'ALENE AIR TERMINAL
SPOKANE AAF 245 (126.18)
THOMPSON FALLS
WILBUR
COULEE CITY
EPHRATA
HARRINGTON
GEIGER AAF
LEMEN
WEEKS
KELLOGG
ROSALIA
ST MARIES
HARRINGTON
MOSES LAKE AAF
RITZVILLE
TEKOA FLY. CLUB
TO ELLENSBURG
TO SUPERIOR
LIND
MULLAN PASS 206
LA CROSSE
WASH. 5 D.A.
WASHTUCNA
PULLMAN-MOSCOW REGIONAL
CONNELL
WASH. 8 D.A.
ASOTIN CO.
OROFINO
TOUCHET VALLEY
WALLA WALLA 212
LEWISTON
SUNNYSIDE
NAS, PASCO
PROSSER
VISTA
MARTIN
KAMIAH
TWIN CITY
WALLA WALLA AAF 396 (116.1, 126.18)
SKY RANCH
WASH.
ORE.
PENDLETON 278 (118.7)
IDAHO CO.
OREGON SKY RANCH
HERMISTON
BOARDMAN
CABBAGE HILL
PENDLETON AWYS SER.
JOSEPH
LEXINGTON
On request
LA GRANDE 329
LA GRANDE
PENDLETON 341
BOULLESTER'S
ORE.
IDAHO
McCALL
BAKER 221 (116.1)
CASCADE
JOHN DAY
BAKER
WEISER
On request
ONTARIO 382
PAYETTE
PAYETTE
ONTARIO
BOISE 350
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
SCALE OF MILES
25 0 25 50
GREAT FALLS 6
GREAT FALLS SEATTLE
SEATTLE 2
SEATTLE SALT LAKE CITY
THE DALLES
ELKO 22

RANGE STATIONS

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COEUR D'ALENE (Air Terminal)	347 (KO)	BMRLZ-DT, 321°,5.2	(4)
PAYETTE FM	(..- - - -)	FM, 301°,48	Boise
MONTANA			
MULLAN PASS	206 (MN)	BMRLZ-DT	(4)
OREGON			
BAKER	221 (BK)(116.1)	SBRAZ-VDT;116°,2.1	(4); 116.1
CABBAGE HILL FM	(- -)	FM, 121°, 11	Pendleton
LA GRANDE	329 (IU)	MHT	(4)
ONTARIO	382 (OO)	MHT	(4)
PENDLETON	341 (PO)	SBRAZ-DT	(3)
Pendleton Field	278 (118.7)	C; 247°,2.3	(4);131.9,126.18,118.7
LA GRANDE FM	(- - - -)	FM, 300°,38	Baker
WASHINGTON			
EPHRATA	269 (EP)	BMRLZ-DT; 336°,3.9	(4)
FELTS (Spokane)	278 (118.5)	C	(4);118.5,126.18,131.9
HARRINGTON FM	(- - - -)	FM,236°,45.3	Spokane
SPOKANE (Felts)	365 (SM)	SBRAZ-DT;332°,1	(3)
SPOKANE AAF	245 (126.18)	CA	(3); 126.18
WALLA WALLA	212 (WL)	SBMRLZ-DT	(4)
Walla Walla AAF	396 (126.18)(116.1)	CA;182°, 4	(4);126.18,116.1 (7-24)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cascade	1 E;rd N	4765	29 S2	80 oct.Pole line NW.
Cavuse Creek.USFS (NC)	40 ENE Pierce	3700	23	
Chamberlain.USFS (Dixie)(NC)	17.6 SE	5765	21	Maintained May to Nov.
Coeur D'Alene Air Terminal	6.3 NNW;RR NW	2310	54h R1 L3 S1	80 oct. 2-50 poles S
Dixie,USFS (NC)	4 SW;creek E	5200	28	Obst N,E,S.
Idaho Co.(Grangeville)	0.9 N;rd W	3295	44 S2	80 oct.20 pole line W.
Kamiah	0.6 SE;RR E	1194	28	Rough. Trees NNW.
★ Kellogg Int,29B,SA-HL	0.8 NW;riv N	2300	38 L3 S4	80 oct.10' dike W.
Landmark.USFS(Knox) (NC)	7.7 ESE	6680	15	Maintained June to Nov.
(P) Lewiston	2 S;riv NW	1426	50h	
McCall	1 S;RR W	5021	23 S4	80 oct.Trees W.
Orofino	1.3 W;riv NE	1000	24 S1	80 oct.1000' mtns WNW.
Payette	2 NE;RR W	2200	35	Road crosses fld SE.ENE
Priest River (NC)	0.9 NNW;RR S	2165	21	Trees E;hill W.
Sandpoint	1.5 NNW;RR W	2117	27 S4	73,80 oct.No sto.Pole line W.
Tekoa Flying Club (Tensed)	5 NNW;creek N	2650	16 S2	80 oct.
Weeks (Coeur d'Alene)	3 N;RR E	2237	30 S6	73 oct,Trees NE.
Weiser	2.8 S;RR NE	2120	34 S2	73 oct.
St. Maries	1.2 NW;hwy S	2132	23	
MONTANA				
Eureka	2.7 NNW;RR N	2680	20	
Libby, USFS	1 NE;riv S,E,W	2090	30	Mtns sur fld.
Thompson Falls	3.2 ESE;RR N	2460	25	Mtns E,S.
OREGON				
Baker	4.3 NNE;hwy W	3368	49h R1 L3 S6	80 oct.No sto.
Boardman Flight Strip	5.6 WSW;RR N	378	42h	

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boullester's Flying Svc.(Pilot Rock)	0.8 E;hwy N	1780	19 S2	73 oct.
Hug's (Elgin)(NC)	0.8 N;RR E	2670	14	
John Day	0.9 SW;riv N	3600	29	PRIVATE.
Joseph	1.2 W;RR E	4150	33 S2	73,80 oct.
La Grande	5.5 ESE;RR SW	2713	47h R1 L2 S4	80 oct.
Lexington	0.7 N;hwy E;RR SW	1650	30 S1	80 oct.
Ontario	2.5 W;hwy E	2190	45h R1 L3 S6	80 oct,
Oreg.Sky Ranch(Milton)	3.7 SSW;RR E	1300	20 S6	73,80 oct.
→ PENDLETON	3 WNW;hwy S	1442	63h R2 L5	
Pendleton Airways, Inc (Pendleton)	3.8 ESE;RR N	1200	37 S6	80,91 oct,Poleline E.
Hermiston	1.7 SE;riv N	635	23 S1	80 oct.
WASHINGTON				
Asotin Co.(Clarkston)	0.6 N	760	34 S6	80,91 oct.Mtn 1 mi W.
Anderson (Pateros)	1.6 SSW;RR N	1100	16	Mtns NW.
Calkins Air Terminal (Spokane)	3.8 N;hwy W	2020	53 S6	80 oct.Trees 200' W.
Chelan	4.7 NE;riv E	1250	34 S2	Fuel. Hills W,N,S.
Colville	0.8 E;hwy NW	1875	27 S1	80 oct.
Connell	1.2 SSW;RR W	870	30 L3 S1	80 oct.
Coulee City	2.2 E;RR W	1700	33 S1	80 oct.
Davenport	0.9 WNW;hwy S	2425	28 S1	80 oct.Obsts ENE.
(P) Deer Park	2.6 ENE	2200	61h S4	80 oct.
Dorothy Scott (Orov'l)	3 NNE;lake W	1150	40 S1	73 oct.2000' mtn S.
Ephrata	2 SE;hwy NW	1258	73h R1 S6	80 oct.
Fairweather(Republic)	0.8 S;riv E	2500	20	Trees N,S. (NC)
FELTS (Spokane)	4.9 ENE;riv N	1962	45h R2 L5 S6	73-91oct.ARPT OF ENTRY
(N) Geiger (Spokane)(A)	6.5 SW;hwy N	2354	82h	INACTIVE.
Hafer's Ranch (Chewelah)	3.6 SSW;RR E	1700	18	
★ Harrington Int,19,SA-HL	1 NNW;hwy E	2305	32 L3	
La Crosse,28B,PD-SM	2.5 SW;RR NW,E	1459	37 L3 S1	80 oct.
Lemen Airpark (Opportunity)	3 SE;lake N	2040	32 S4	80 oct.No sto.Poleline NNE
Lind	1.3 NE;RR S	1478	33 L2 S2	80 oct.
Martin (College Pl.)	1.5 WSW; RR N	750	24 S6	80,91 oct.No sto.Trees
(A) Moses Lake AAF (A)	6.5 NNW;RR E	1190	100h	INACTIVE. ENE.
Newport	1 W;riv NE	2150	29 S2	No fuel.Hills E,W.
Okanogan-Legion (Okanogan)	1.1 E;riv NW	1100	24 S1	80 oct.Posts NE.
Okanogan Flgt Strip (Omak)	4 N	1298	47h	
(N) Pasco NAS (N)	2.8 NNW;RR E	402	47h	INACTIVE.
Prosser	1.4 NW;riv SE	685	40 S6	80,91 oct. Trees W.
Pullman-Moscow Regional (Pullman)	3.4 ENE;RR S	2549	51h S6	80 oct.
Ritzville	0.5 W;RR SW	1800	15 S1	80 oct.Pwrline,bldgs NE.
Rasalia	2.6 W	2180	26 S1	80 oct.Hill NE.
Sky Ranch(WallaWalla)	1.3 SW		32	Pwr line W.Data unverif.
(A) Spokane AAF (A)	12 WSW	2430	80h R1 L5 S6	62,73,91,100 oct.JP-1.No sto
Sullivan Lake (Metaline Falls)	4 ESE;lake S	2590	21	Road crosses fld,caution.
Sunnyside	2 SE;RR NE	730	18 S1	80 oct.
Tonasket	1.9 NNW;riv E	1250	31 S1	80 oct,Pwr line SSW.
Vista (Kennewick)	4.5 W;rivers NW	516	35h	
Wallace (Mead)(NC)	2 W;RR E	1935	26	40 trees NE.
(A) WALLA WALLA AAF	3 NE; hwy S	1186	72h R2 L5 S6	73,91,100 oct. (A)
Washtucna	1 S;RR SE,NW	1000	39 S2	80 oct. Hill NE.
Wilbur	1.8 W;RR S	2175	29 S6	80 oct,Pole line NE.
Twin City (Kennewick)	1.3 SE;RR E	385	30 S6	80,91 oct.
"J Z" (Almira)	1 NNW; RR SW	1950	21	
Touchet Valley (Huntsville)	0.5 NE;RR S	1400	19	Trees,pole line WSW.(NC)

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not charted. → NEW OR REVISED DATA.

GREAT FALLS

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DU BOIS (Int.)	388 (DZ)	SBRAZ-DT, 332°,1.7	(4)
MONTANA			
ALBERTON FM	(- - -)	FM, 276°,14.8	Missoula
BELT FM	(- -)	FM, 86°,21.5	Great Falls
BOZEMAN (Gallatin)	329 (BL)	SBMRAZ-DT,319°,0.8	(4)
BUTTE	233 (BT)	BMRLZ-DT,99°,16.1	(4)
CASCADE FM	(- - -)	FM,202°,19.3	Great Falls
CUT BANK	263 (GV)	SBRAZ-DT,327°,3.1	(4)
DILLON (Int.)	379 (DE)	BMRLZ-DT,167°,2	(4)
DRUMMOND (Int.)	296 (DR)	SBMRAZ-DT,185°,1.4	(4)
GREAT FALLS	317 (GT)	SBRAZ-DT	(3)
Great Falls Mun.Arpt.	278 (118.7) (126.18 on req)	AC; 17°, 1.9	(4);126.18,131.9,113.7
GREAT FALLS AAF	219 (126.18)	CA (ILS)	(3); 126.18
HELENA	371 (HL)	SBMRAZ-DT,252°,1.9	(4)
HOMESTAKE FM	(- -)	FM, 275°, 21	Butte
LIVINGSTON (Int.)	224 (LT)	SBMRAZ-DT,247°,2	(4)
McDONALD PASS FM	(- - - -)	FM, 252°, 18	Helena
MISSOULA	308 (MX)(116.1)	SBMRAZ-VDT,120°,1.5	(4); 116.1
STANFORD FM	(- - - -)	FM,270°, 29	Lewistown
SUPERIOR (Int.)	254 (SP)	BMRLZ-DT,275°,0.1	(4)
WHITEHALL (Int.)	284 (WW)	SBRAZ-DT,183°,2.3	(4)
WHITETAIL FM	(-)	FM,352°,15.6	Whitehall
WINSTON FM	(- -)	FM, 100°, 15	Helena

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
GREAT FALLS AAF, MONT.	109.9		23° Mag.	IM (.27)	MM ·····(1.13) MMK	OM -- (4.63) OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

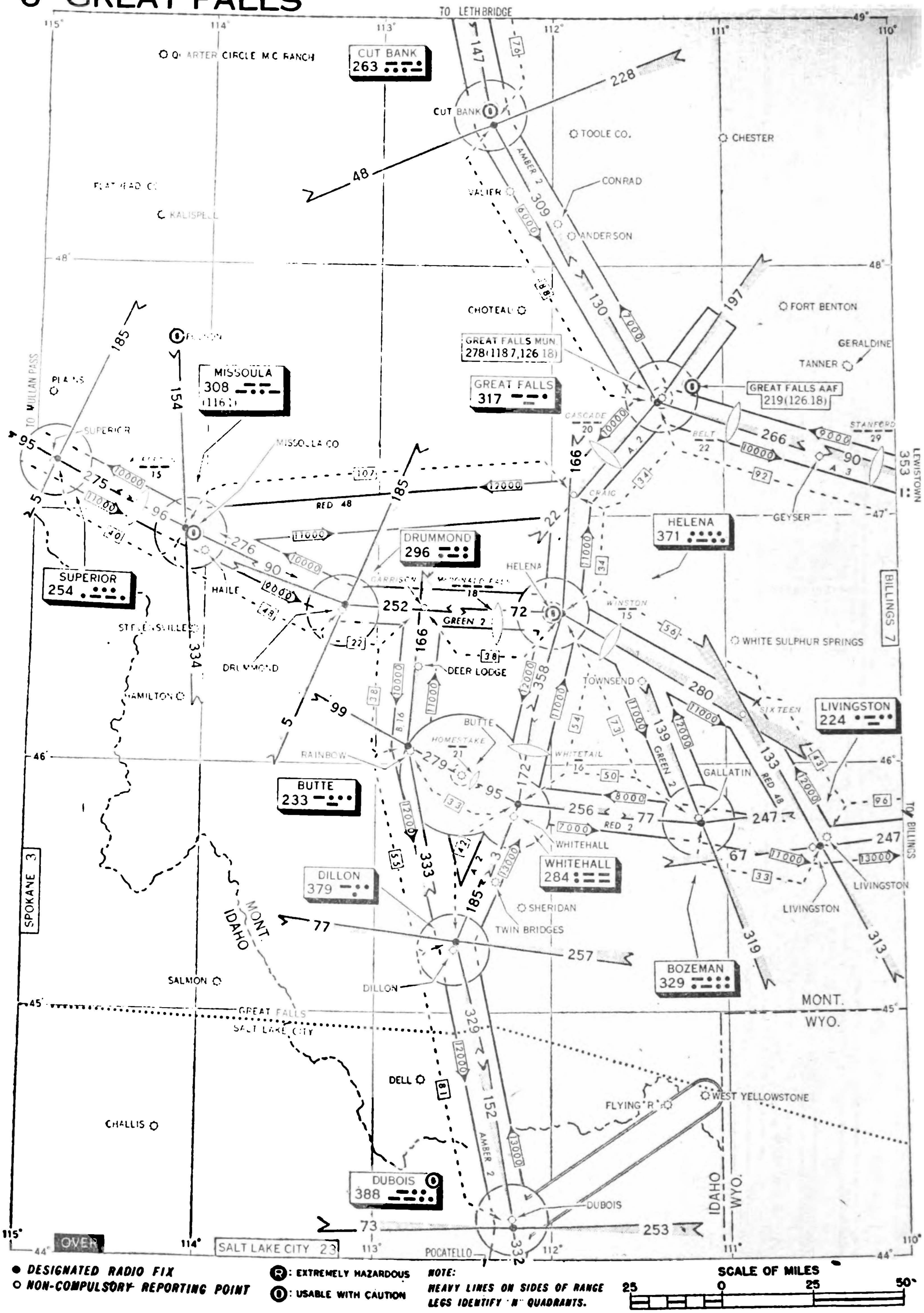
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Spring (NC)	1.1 WNW;RR SE	6350	27	Trees ENE,WSW.
Challis	1.2 NNE;hwy E	5000	34 S1	73,80 oct.
★ Dubois Int,23,SL-GT	0.8 SSE	5123	48 R1 L3	30' pole W.
Flying R (Lake)	2.8 SE;lake W	6630	34 S1	Ltd 73 oct.
Moose Creek,USFS (Red Riv,Hot Sprgs)	26.5 NNE	2200	23	Mtns sur fld. (NC)
Salmon	4 S;riv W	4045	40 S2	80 oct,Mtns NE.
MONTANA				
Anderson (Conrad)	4.8 SE;RR W	3730	16	PRIVATE.
Basin Creek (Flathead Nat'l Forest)(NC)	56 NE Missoula	4900	21	Closed to public
Big Prairie (Flathead Nat'l Forest)(NC)	57 NE Missoula	4650	22	Closed to public
Black Bear (Flathead Nat'l Forest)(NC)	58 SE Kalispell	4200	22	Closed to public
Bob Gordon (Cascade)	0.9 W;RR E	3480	25	(NC)
BUTTE	4 S;RR W,N	5553	56h R1 L5 S4	80,91 oct.
Chester	1.5 NW;RR S	3150	44	
Choteau	1.2 NNE;RR W	3810	39 S4	80 oct.
Condon (Flathead Nat'l Forest)(NC)	48 NNE Missoula	3690	25	
Conrad	1.1 W; creek S	3530	32 S1	80 oct.
CUT BANK	3 SW;riv 1 E	3899	87h R1 L5 S6	80 oct. ARPT OF ENTRY.
Deer Lodge	1.5 W;RR E	4700	38 S1	80 oct.
Dell Fight Strip,28, SL-GT	1.3 NW;RR E	6008	70h L2	
★ Dillon Int,32, SL-GT	4.6 ENE;riv 2 W	5238	38 R1 L3 S1	80 oct.

MONTANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Drummond Int.44B. SA-HL	4 SW;hwy E	4300	36 R1 L3	
Ennis (NC)	1 NW;riv E	4985	23	
Flathead Co.(Kalispell)	7.4 NNE;RR E	2690	47h L2 S1	80 oct.All lgts prior req.
Fort Benton	1.3 NE;RR SE	2870	27	Poles NW.Soft when wet.
Gallatin (Bozeman)	8.5 NW;RR S	4461	52h R1 L5 S6	80-100 oct.
Gates Park,USFS(NC)	35 W Choteau	5400	26	Sur by mtns.Closed to public
Geraldine Mun.	0.5 S;RR NE	3200	17 S1	Ltd 73 oct.
★ Geyser Int,55,CX-GT	3 SE;RR N	4281	43 L3	
GREAT FALLS	3.5 WSW;RR E	3664	70h R2 L5 S6	80,91 oct. ARPT.OF ENTRY.
(A) Great Falls AAF(A)	4.5 E;RR N	3459	89h R3 L5 S6	73,91.100 oct.IP-1.Foreign clearing station.
Hale (Missoula)	2.3 SSW;hwy NW	3200	38 L4 S6	73 oct.All lgts prior req.
Hamilton	1.3 ENE;hwy W	3640	24 S6	80 oct.Pole line S.
HELENA	2.5 ENE;hwy W	3894	55h R1 L5 S6	80,91 oct.Stack WSW.
Holbrook (Flathead Nat'l Forest)(NC)	58 NE Missoula	4575	20	Sur by mtns.Closed to public
Hot Springs (NC)	2.2 E;hwy W	2800	27	
Kalispell	1 S;hwy E	2900	34 S4	80 oct.Poles NW.
Livingston	6 ENE;RR N,W	4656	62 S1	80 oct.
★ Int,10,HL-Twin Cities	2 E;RR N	4630	40 R1 L3	Poles S.
Meadow Creek (Flathead Nat'l Forest)	48 SE Kalispell	4000	22	(NC)
MISSOULA COUNTY	5.3 WNW;RR N	3199	71h R1 L5 S2	73,91 oct.
Plains	1.3 NNW;RR E	2500	32 S4	80 oct.No sto.30' Poles NW,NE.
Polson	1.5 W;riv E	2900	23 S4	80 oct.No sto.
Quarter Circle,M.C. Ranch (Polebridge)	4.2 NW;riv W	3600	26 S1	73 oct.Ski-equipped acft only. Nov. thru April.
Rainbow Skyport (Gregson)	0.7 N;RR E,S	5030	40 S1	80 oct.
Schaeffer (Flathead Nat'l Forest)(NC)	50 ESE Kalispell	4855	24	Sur by mtns.
Seeley Lake (NC)	1.5 WNW;lake SE	4150	20	Trees NW.
Sheridan	1.5 SE;RR W	5160	27	Brush, cattle on fld.
Six Mile Landing Fld (Huson)(NC)	2 NNW;riv S	3200	24	Hill NE;make SW approach.
Spotted Bear (Flathead Nat'l Forest)(NC)	39 SE Kalispell	3800	22	
Stevensville	2 ENE;riv 2 W	3620	30 S2	73 oct.
★ Superior Int,36B,SA-HL	1 S;RR SW	2700	35 R1 L2	Mtns NW;trees SE.
Tanner (Geraldine)	0.5 NW;RR NE	3200	25	
Toole Co.(Shelby)	2 NNW;RR S	3300	26 S2	80 oct.Poles E,SE.
★ Townsend Int,3,HL-Twin Cities	2.2 ENE;riv 3 W	4000	40 L2 S1	73 oct.
Troy (NC)	1.3 NW;riv E	2017	26	Trees SSE.
Twin Bridges	1.5 SE;RR SW	4725	38	
Valier	0.6 S;lake S	3820	35	Caution when wet.
West Yellowstone	1.3 W;RR S	6700	63 S2	91 oct. Trees sur fld.
★ Whitehall Int,36A,SL-GT	6.7 SW;RR N	4602	60 R1 L3	
White Sulphur Sprgs.	4 SSW;RR E	5010	24	Livestock on fld.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii) (NC)-Not charted. → NEW OR REVISED DATA.

6 GREAT FALLS



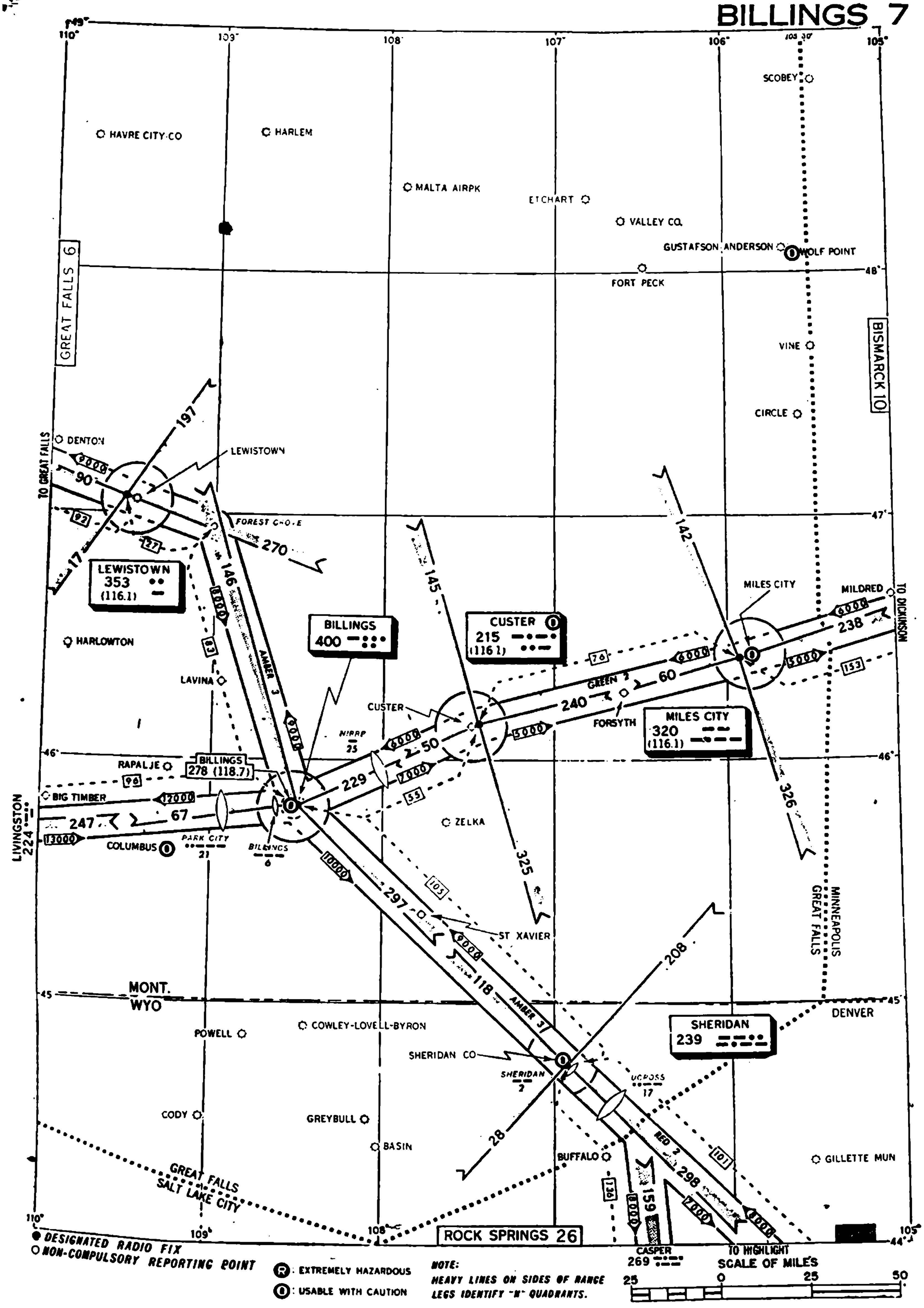
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

SCALE OF MILES
25 0 25 50

BILLINGS 7


110°
109°
108°
107°
106°
105° 30'
105°
49°
48°
47°
46°
45°
44°
HAVRE CITY CO
HARLEM
MALTA AIRPK
ETCHART
VALLEY CO
GUSTAFSON
ANDERSON
WOLF POINT
FORT PECK
SCOBEY
CIRCLE
VINE
GREAT FALLS 6
BISMARCK 10
TO GREAT FALLS
DENTON
LEWISTOWN
FOREST GROVE
LEWISTOWN
353
(116.1)
HARLOWTON
LAVINA
BILLINGS
400
CUSTER
215
(116.1)
MILES CITY
320
(116.1)
MILDRED
TO DICKINSON
GREEN 2
FORSYTH
CUSTER
NIRRP
25
RAPALJE
BILLINGS
278 (118.7)
BIG TIMBER
LIVINGSTON
224
COLUMBUS
PARK CITY
21
BILLINGS
6
ZELKA
MONT.
WYO
POWELL
COWLEY-LOVELL-BYRON
SHERIDAN CO
SHERIDAN
2
SHERIDAN
239
DENVER
UCROSS
17
CODY
GREYBULL
BASIN
BUFFALO
GILLETTE MUN
ST XAVIER
MINNEAPOLIS
GREAT FALLS
GREAT FALLS
SALT LAKE CITY
ROCK SPRINGS 26
CASPER
269
TO HIGHLIGHT
AMBER 3
AMBER 2
AMBER 1
RED 2
197
90
17
270
146
145
142
238
60
240
50
229
67
247
297
118
326
325
208
28
159
298
9000
6000
5000
12000
7000
13000
10000
92
93
87
83
76
153
55
105
101
136
99
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
A: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
SCALE OF MILES
25
0
25
50

BILLINGS

RADIO — MONTANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BILLINGS	400 (BI)	SBRAZ-DTX	(3)
Billings Airport	278 (118.7)	C; 247°, 1.5	(4);118.7,126.18,131.9
BILLINGS LFM	(- - -)	LFM, 247°, 6	Billings
CUSTER (Int.)	215 (CU)(116.1)	BMRLZ-VDT,230°,2	(4); 116.1
LEWISTOWN	353 (IT)(116.1)	SBRAZ-VDT, 90°,2.9	(4); 116.1
MILES CITY	320 (MY)(116.1)	SBMRAZ-VDT,58°,2.1	(4); 116.1
NIBBE FM	(-)	FM, 49°, 25.4	Billings
PARK CITY FM	(. . - - -)	FM, 247°, 21	Billings
WYOMING			
SHERIDAN LFM	(- -)	LFM,117°, 2.3	Sheridan
SHERIDAN	239 (ZY)	SBRAZ-DT,298°, 1.8	(4)
UCROSS FM	(. . - -)	FM, 118°, 17.4	Sheridan

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MONTANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Horn Co.(Hardin)(NC)	2.3 ESE;riv W	3000	31	
★ Bigtimber Int.13A.HL-Twin Cities	1.5 SSW;hwy N	4450	43 L3	
BILLINGS	2.5 NW;RR S	3565	57h R2 L4 S6	73,91,100 oct.
Bones Bros. Ranch (Birney) (NC)	2 ESE;crk W	3500	29	ROUGH.
Chinook (NC)	2.8 NNE;rd W	2480	42	
Circle	1.3 E;RR N	2400	21	
Columbus	1 ESE;RR N	3575	50 S1	73 oct.Poles W,E,NW.
★ Custer Int.25.HL-Twin Cities	2.3 E;riv NE	2868	42 R1 L3	
Denton	2.2 SSW;RR N	3850	26 S4	73 oct.
Etchart (Tampico)	0.5 NNW;RR S	2100	29 S2	80 oct.Trees SE.
★ Forsyth Int.30.HL-Twin Cities	3 ENE;riv N	2722	30 L3	
Fort Peck	1.6 W;hwy S	2294	30 S1	80 oct.
Gustafson-Anderson (Wolf Point)	0.8 NW;RR S	2040	26 S6	80 oct.Pole line E.
Harlem	2.3 NNE;RR E	2560	24 S2	No fuel
Harlowton	2 WNW;riv S	4400	29 S2	73 oct.
Havre City-County	4 WSW;lake E	2589	48h S4	80 oct.ARPT OF ENTRY.
Ingomar (NC)	0.8 WSW;RR N	2950	24	
Jordan (NC)	1.8 WNW;rd S,W	2637	40	
Lavina Int,44B,CX-GT	1 WNW;RR S	3496	39 L3	
LEWISTOWN	2.5 SW;RR NW	4177	100h R1 L5 S4	80 oct.
Malta Airpark	0.8 SW;R R N	2270	31 S1	80 oct.Shrubs NW.
★ Mildred Int.38.HL-Twin Cities	3.4 WSW;rd E	2535	37 L2	
(P) MILES CITY	2.5 NW;hwy NE	2626	56h R1 L5 S6	73,91 oct.
Poplar (NC)	0.8 N;RR S	1970	33	
Rapelje	1 SE;RR N	4030	38	
Red Lodge (NC)	0.5 WNW;rd N	5600	29	ROUGH
Roundup (NC)	1.9 N;hwy W,S	3500	37	
★ St.Xavier Int,35,CX-GT	7.3 SSW;riv W	3170	40 L3	
Scobey	1 NW;RR S	2458	36 S1	80 oct.
Valley County (Glasgow)	1.8 NNE;RR S	2298	81h S4	No fuel.
Vine (Vida)	8 S;hwy W	2350	27 S1	80 oct.
Wolf Point	3 E;riv S	1980	35 S2	80,91 oct.
Zelka (Hardin)(NC)	2 W;hwy N	3002	18	
WYOMING				
Basin	2.5 NE;riv E	3775	34	Hills adj E.
Buffalo, 27, CX-GT	2.6 NNW;hwy E	4900	40 L3 S1	80 91 oct.
Cody	2 ESE;riv N	5084	47 S6	73,91 oct.Hill E;pole line S.
Cowley-Lovell-Bryon	2 NNE;rd NW	4050	32	
(P) Gillette	5.2 NNW;hwy E	4380	36 S2	73,80 oct.
(P) Grey Bull	2 NW;hwy S	3900	44 S2	73 oct.
(P) Powell	8 NNW	5054	42 S2	73 oct.
(P) SHERIDAN CO.(Sheridan)	2 SSW;hwy E	3961	60h R1 L5 S6	80 91 oct

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted.

→ NEW OR REVISED DATA

BISMARCK

RADIO — NORTH DAKOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISMARCK	230 (RK)(116.1)	SBRAZ-VDT, 260°,2.3	(4): 116.1
DICKINSON (Mun.)	308 (DC)(116.1)	SBMRAZ-VDT,167°,2.1	(4): 116.1
DRISCOLL FM	(-)	FM, 73°, 30	Bismarck
→ GOLVA (Int.)	266 (GA)(116.1)	MHVT	(4): 116.1
JUDSON FM	(- - -)	FM, 260°, 27	Bismarck
MINOT (Port O Minot)	209 (UI)	BMRLZ-DT,301°, 3.4	(4)
SOUTH DAKOTA			
PHILIP	206 (IL)	MHT	(4)
PIERRE	347 (PX)	SBRAZ-DT,249°,3.5	(4)
RAPID CITY	221 (RZ)	SBRAZ-DT	(4)
Rapid City AAB	396 (126.18)	CA; 345°, 5.5	(4); 126.18
SPEARFISH (Black Hills	335 (SE)	HT	(4)
Airport)			

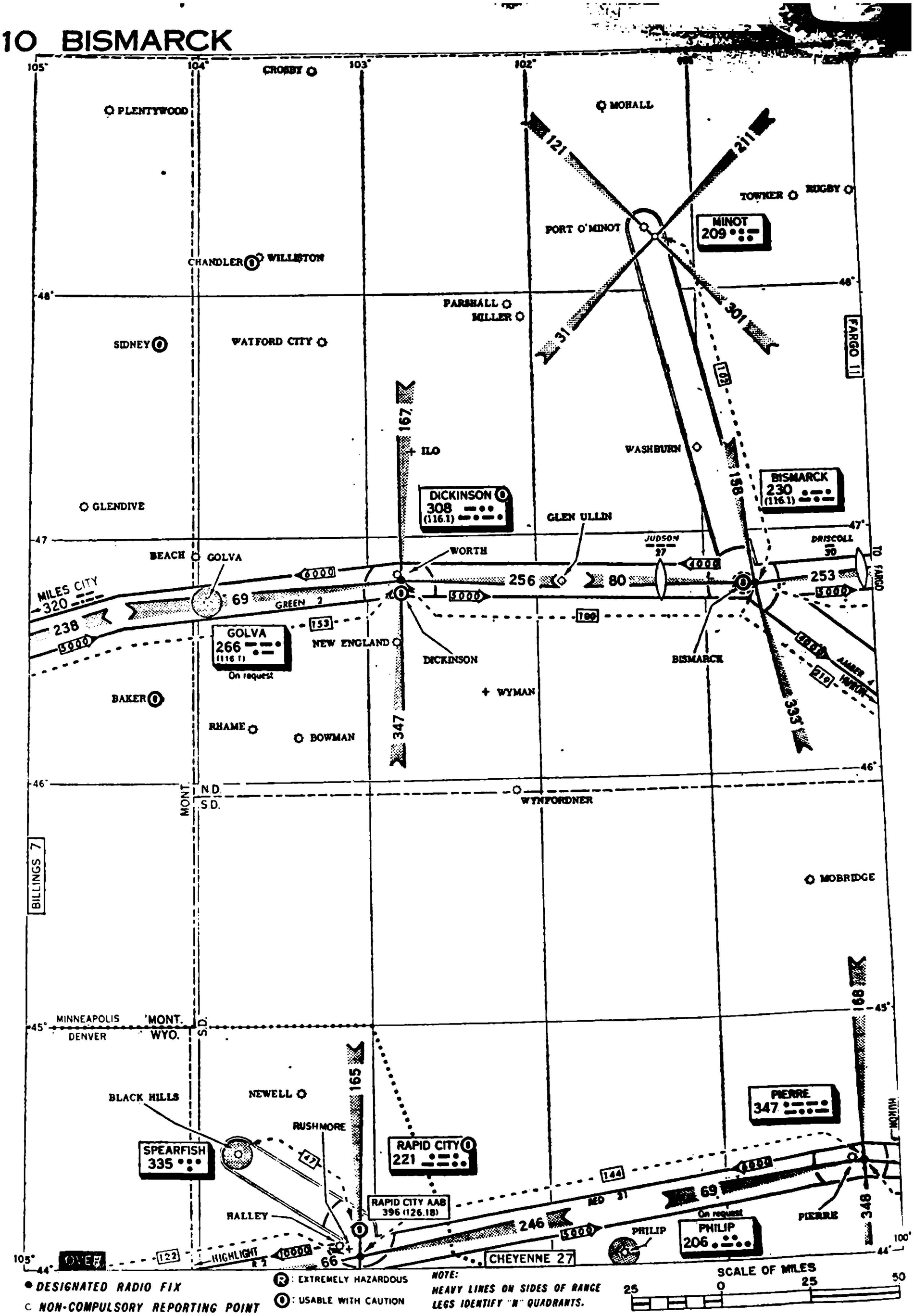
S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MONTANA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Baker	0.8 SSE;hwy N	2290	35 S2	80 oct.Poles NW,W.
Glendive	2.5 NE;RR S	2128	28 S6	80 oct. Poles S.
Plentywood	0.5 S;RR NE	2065	24 S4	80 oct.
Sidney	6.6 NW;hwy W	2290	40 S2	80 oct.
NORTH DAKOTA				
Beach	0.8 NNW;RR W	2814	30 S1	73 oct.
BISMARCK	2.4 SSE;RR ENE	1653	51h R1 L5 S4	73,80,91 oct. No sto.
Bowman	1.5 W;RR N	3000	24	
Chandler (Williston)	3 W;RR SE	1877	24 S6	80 oct.
Crosby	1 N;RR SW	1962	33	
Dickinson Mun.	5,8 S;hwy E	2587	54h R1 L3	
★ Glen Ullin Int, 53, HL-Twin Cities	1.5 WSW;RR N	2084	29 L3	Poles NE,trees E,SE.
★ Golva Int, 43. HL-Twin Cities	1.5 E;hwy W	2781	34 R1 L3	
Ilo (Killdeer)	1.5 SE;hwy N		23 S2	73 oct,Data not verified.
Miller (Parshall)	5 SE;RR N	1950	20 S1	80 oct,Pole line N.
Mohall	0.8 WNW;RR E	1650	26 S2	73 oct. Pole lines S.
New England	2.4 NE;hwy W	2666	24 S2	73,80 oct. Pole line W.
Parshall	1 S;RR N	1970	22	
(P) Port O Minot (Minot)	1.6 NNE;hwy W	1724	58h R1 L5 S4	80,91 oct,No bcn. Ctc lgts prior req. Pwrline SW.
Rhame	1.5 SW;RR NE	3150	23 S1	73 oct,Pole line S.
Rugby	2 NNW;RR SW	1542	26 S6	80 oct.
Towner	1.5 NE;RR S	1482	27 S1	80 oct.Pole line N, NW.
★ Washburn Int, 4, RK-UI	5.1 N;hwy W	1905	40 L3	Pole line W.
Watford City	1.2 ENE;hwy S	1975	31 S1	73 oct.
Williston	1.1 NNW;hwy E	1861	24 S6	80,91 oct.Obsts N,E,S.
Worth (Dickinson)	1.8 SW;riv NW	2455	28 S6	73 oct.Hangar NW.
Wyman (Mott)	1 S;dam N		30 S1	80 oct. Data not verified.
SOUTH DAKOTA				
Belle Fourche (NC)	8,4 NW;hwy N	3140	50	
BLACK HILLS (Spearfish)	4.5 E;hwy S	3900	53 R1 S6	73, 91 oct.
Halley (Rapid City)	1.5 NNE;riv SE	3300	40 S6	73 oct.
Mobridge	1.2 NW;RR SW	1621	31 S4	80 oct. Pole line E, NE.
(P) Newell	0.2 N	2825	30 S2	73 oct.Pole line SE,W,N,NW.
Philip, 31, CX-HR	3.6 E;RR S	2210	40 R1 L3 S6	80 oct.No sto.Pole line N.
PIERRE	3.5 NE;riv SE	1719	69h R1	
(A) Rapid City AAB (A)	8 NE; RR S	3216	83h R2 L5 S4	73,91,100 oct. JP-1.
Rushmore (Rapid City)	3.5 E	3100	31 S6	73,91 oct. Data not verified.
Wynfordner (Lemmon)	1.3 NE;RR S	2580	26 S1	80 oct. Pole line NW.
Dunseith (NC) N.D.	1.5 S	1715	26	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted.
→ NEW OR REVISED DATA

10 BISMARCK



● DESIGNATED RADIO FIX

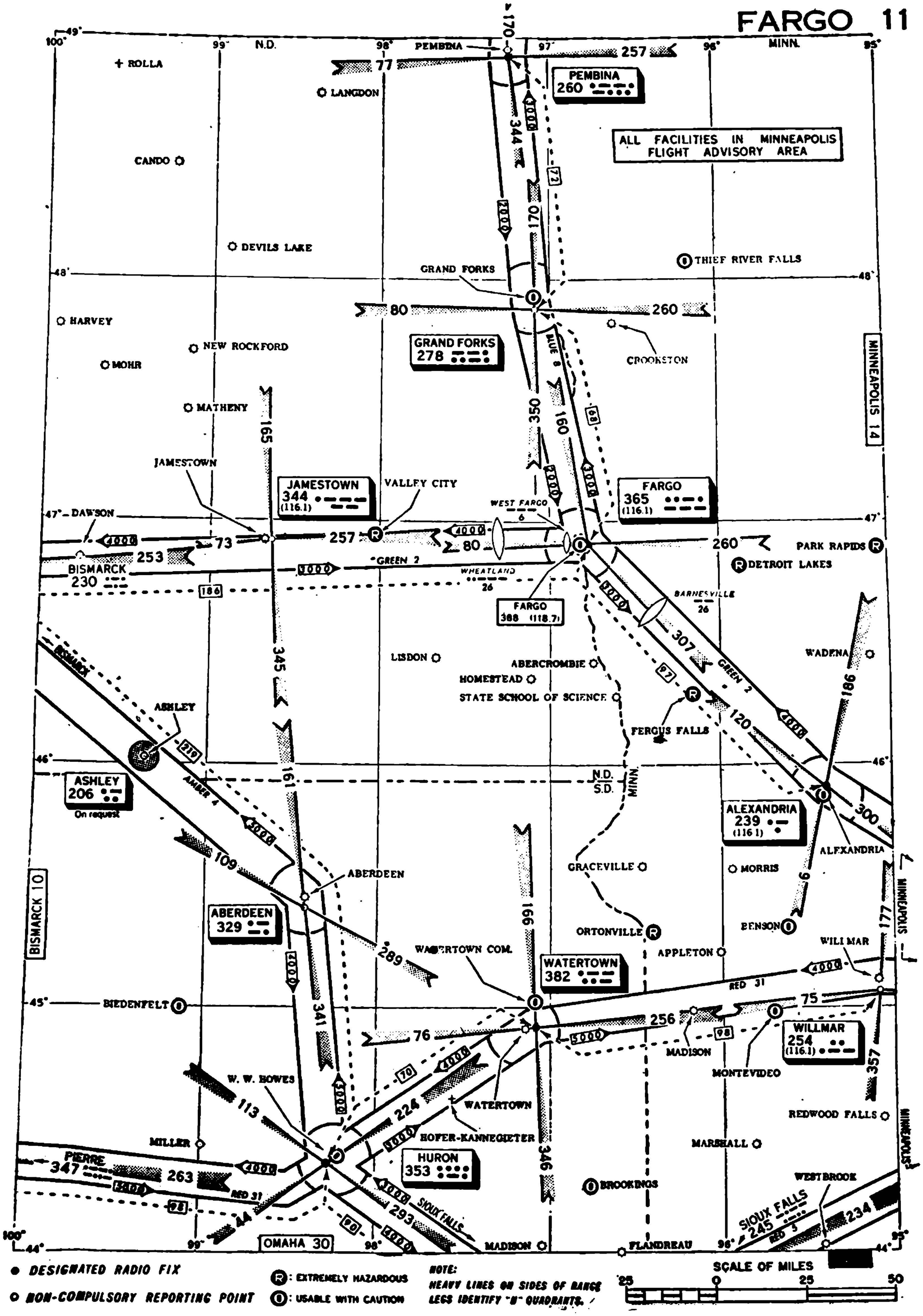
C NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS

Ⓞ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

FARGO 11


49°
100°
99°
N.D.
98°
PEMBINA
97°
MINN.
96°
95°
ROLLA
77
LANGDON
257
PEMBINA
260
170
344
CANDO
ALL FACILITIES IN MINNEAPOLIS FLIGHT ADVISORY AREA
DEVILS LAKE
THIEF RIVER FALLS
GRAND FORKS
48°
80
260
HARVEY
NEW ROCKFORD
MOHR
GRAND FORKS
278
CROOKSTON
MINNEAPOLIS 14
MATHENY
165
350
160
JAMESTOWN
JAMESTOWN
344
(116.1)
VALLEY CITY
WEST FARGO
6
FARGO
365
(116.1)
47°
DAWSON
73
257
80
260
PARK RAPIDS
253
BISMARCK
230
GREEN 2
WHEATLAND
26
DETROIT LAKES
FARGO
388 (118.7)
BARNESVILLE
26
307
LISBON
ABERCROMBIE
HOMESTEAD
STATE SCHOOL OF SCIENCE
WADENA
186
ASHLEY
120
FERGUS FALLS
46°
N.D.
S.D.
MINN.
ASHLEY
206
On request
109
ALEXANDRIA
239
(116.1)
300
ALEXANDRIA
ABERDEEN
GRACEVILLE
MORRIS
BISMARCK 10
ABERDEEN
329
166
ORTONVILLE
BENSON
177
MINNEAPOLIS 7
WATERTOWN COM.
WATERTOWN
382
APPLETON
WILLMAR
289
RED 31
45°
BIEDENFELT
75
256
76
WILLMAR
254
(116.1)
MADISON
MONTEVIDEO
357
W. W. HOWES
113
224
WATERTOWN
REDWOOD FALLS
HOFER-KANNEGIETER
MILLER
MARSHALL
PIERRE
347
263
HURON
353
346
BROOKINGS
WEST BROOK
RED 31
293
SIOUX FALLS
SIOUX FALLS
245
234
RED 5
100°
44°
99°
OMAHA 30
98°
MADISON
FLANDREAU
96°
95°
44°
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
25
0
25
50

RADIO — MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	239(AE)(116.1)	BMLZ-VDT,186°,2	(4); 116.1
BARNESVILLE FM	(- -)	FM, 127°, 26	Fargo, N.D.
WILLMAR	254(IW)(116.1)	SBMRAZ-VDT,357°,3.5	(4); 116.1

NORTH DAKOTA

ASHLEY (Int.)	206 (AI)	MHT	(4)
FARGO	365(FO)(116.1)	SBRAZ-VDT	(3); 116.1
→ Fargo-Hector Arpt	388 ((118.7))	C, 260°, 0.9	(4); 126.18, 118.7, 131.9
GRAND FORKS	278 (GF)	BMLZ-DT,350°,3.4	(4)
→ JAMESTOWN	344 (JM)(116.1)	SBMRAZ-VDT,253°,1.5	(4); 116.1
PEMBINA (Int.)	260 (PB)	SBMRAZ-DT,350°,1.6	(4)
WEST FARGO LFM	(- - -)	LFM, 260°, 5.5	Fargo.
WHEATLAND FM	(. . - - -)	FM, 260°, 25.5	Fargo.

SOUTH DAKOTA

ABERDEEN	329 (AN)	SBRAZ-DT,341°,2.5	(4)
HURON (W.W.Howes)	353 (HR)	BMRLZ-DT,44°,2.7	(4)
WATERTOWN	382 (WU)	BMRLZ-DT,256°,2.9	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs.: (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MINNESOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Alexandria	1.5 SSW,lk NW	1423	57h R1 L5 S4	80,91 oct.
Appleton	1.9 NNE,riv S	1010	34 S2	80 oct. Poleline S,SE,SW
Benson	2.4 NW	1031	22	Poleline NW.
Crookston	3 NNW,RR N	875	30 S2	80 oct. Obst sur fld.
Detroit Lakes	2.7 W,RR N	1392	35 S2	80 oct. Rnwy data unver.
Fergus Falls	4.3 W,RR N	1160	23 S1	80 oct. Poleline W
Graceville	0.8 WNW,RR S	1110	16	Poleline S.
Madison	1 S, hwy W	1086	31 L3 S6	80 oct.
Marshall	1.5 W,RR NE	1167	35 S4	80 oct.
Montevideo	2.2 NNE,RR W	950	19 S2	80 oct. Poleline W,NW
Morris	2.7 WSW,RR N	1134	31 S2	80 oct. Trees,poleline NW
Ortonville	1 ESE,hwy S	1090	21	Hwy W.
Park Rapids	1.7 SSW,RR E	1440	28	Poleline E.
Redwood Falls	1.8 NE,riv NE	1025	25 S2	80 oct. Poleline SE,SW.
Thief River Falls	3.6 S, riv W	1110	20 S1	80 oct.
Wadena	1 E,RR NW	1300	30 S1	80 oct. Poleline S,NW.
Westbrook	1 SE,hwy N	1500	18 S1	80 oct. Poleline W.
Willmar,16,HR-MP	1.5 W,RR E	1130	28 R1 L3 S6	80 oct.

NORTH DAKOTA

Abercrombie	1.7 SSW,riv E	949	24 S1	80 oct. Poleline E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X111) NC-(not charted). → NEW OR REVISED DATA.

NORTH DAKOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Ashley Int,40,OH-RK	1 SE,hwy N	2025	40 R1 L3	
Cando	1.1 SW,RR E	1490	26 S1	80 oct.
★ Dawson Int,63,HL-Twin Cities	1 SW,RR N	1760	34 L2	
Devils Lake	2.5 W,hwy S	1450	43h	Poleline W
FARGO-HECTOR (Fargo)	2.9 NNW,RR SW	899	50h R2 L5 S6	73-100 oct. JP-1 fuel.
GRAND FORKS	2.6 WNW,RR S. E	837	49h R1 L5 S6	73,80,91 oct. ARPT OF ENTRY.
Harvey	1.9 N,RR SW	1605	30 S1	80 oct.
Homestead(Wynd-(P) Jamestown mere)	6.2 N,hwy W	1100	19 S1	Ltd 73 oct. Trees E,SW.
	1.5 NE,hwy S	1493	58h R1 L3 S6	80 oct.
Langdon	1 W	1608	18 S1	80 oct.
Lisbon	0.8 SSW,RR SE	1151	21 S1	73 oct. Polelines N,S.
Matheny (Carrington)	1.3 W,RR N	1580	32 S1	80 oct. Poles NE,NW.
Mohr (Fessenden)	1.5 SW,RR NE	1620	22 S1	80 oct.
New Rockford	1.5 N	1533	30	
★ Pembina Int,14,FO-WG	1 S,RR W	792	28 R1 L3 S4	80 oct. No ngt svcg. ARPT. OF ENTRY.
Rolla	0.7 N,lake S		21 S2	80 oct. Data unver.
St.School of Science (Wahpeton)	0.8 N,RR W	964	30 S6	80 oct. Poleline N;pwrline E.
(P) Valley City, 71,HL-Twin Cities	1.5 NW,riv NE	1375	31 L3	

SOUTH DAKOTA

Aberdeen	2.9 E,RR N	1299	49h R1 L5 S6	73,80,91 oct.
Biedenfelt(Faulkton)	2 S;rd,RR E	1590	26 S1	73 oct. Poles E.
Brookings	2.5 SSE,hwy W	1600	26 S4	80 oct.
Eureka	6 N, rd W	1895	28	Poles W.
Flandreau	3 S;hwy N,E	1575	27 S1	80 oct. Poles sur fld.
Hofer-Kannegieter (Willow Lake)	1.5 E	1787	22 S2	73 oct. Poleline N. Data unver.
Madison	3.7 ENE,hwyS	1688	26 S2	80 oct. Trees W;pole NW
★ Miller,Int,44,CX-HR	5.6 S,hwy E	1735	37 L2	
Redfield	1 SSW,RR NE	1300	25	Pole line E.
WATERTOWN	2 NW,RR NE	1736	69h R1 L5 S1	80, 91 oct.
Watertown Com.	8.3 N,hwy E	1779	30	Poles E, SE.
(P) W.W.HOWES(Huron)	1.3 NNW	1287	43h R1 L3 S6	73,80,91 oct.

RADIO

MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DULUTH (Williamson-Johnson)	221 (DH)	SBRAZ-DT, 130, 4	(4)
HAMEL FM	(- - - -)	FM, 298°, 24	Minneapolis
HASTINGS FM	(- -)	FM, 118°, 10.2	Minneapolis
JORDAN FM	(- - -)	FM, 238°, 26	Minneapolis
LAKE CITY	206 (FE)(116.1)	MHVT	(4); 116.1
MINNEAPOLIS (Wold Chamberlain Field)	266 (MP)	SBRAZ-DT, 298°,3.5	(3)
WOLD CHAMBERLAIN (Minneapolis)	278(126.18) (142.74)	AC	(4); 116.1,126.18,142.74
ROCHESTER AIRPORT	278 (126.18)	C	(4);116.1,126.18, 140.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3) 3105, 4495, 6210 kcs ; (4) 3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

MICHIGAN

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Gogebic Co. (Ironwood)	4.5 NNE; RR S	1246	24 S4	80 oct. Soft when wet.

MINNESOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anderson (Cocato)	2.6 ENE,RR S	1020	23 S2	80 oct.Poles S; trees W.
Anoka Flying Service	1.2 SE,riv SW	896	19 S1	80 oct.Poles NE; 629' twr SE.
Baudette	1 N, riv NE		27 S2	80 oct. Data not verified.
Bemidji	2.5 NNW, RR S	1395	57h S4	80, 91 oct. Rnwy data unverified.
Brainerd	1.3 SSE,hwy W	1210	22 S2	Ltd 73 oct.
(A) Camp Ripley (Little Falls)	7.5 N, riv E	1150	52	Tank SE corner (A)
Carleton (Stanton)	0.7 NE,RR W	870	30 S6	80 oct.Polelines sur fld.
Cedar (Minneapolis)	8.5 S, RR W	811	28	
Coleraine	0.8 SSE	1390	25 S1	80 oct.
Ely	1.2 E	1425	24 S2	Poleline W,trees sur fld.
Faribault	1.6 S,hwy W	1060	20 S1	80 oct. Pwr line W.
Fleming (South St. Paul)	1.8 S, riv E	822	15h	
Flying Cloud (Minneapolis)	13.8 SW, riv S	900	28 S1	80 oct. Poles SE, SW
Gervais (Toft)	1.2 NE,hwy S	800	27 S2	80 oct.
Grand Rapids	1.5 SSE,lake NE	1293	22 S2	80 oct.
Hector	0.7 S, RR N	1100	25 S1	80 oct.Poleline W, NW, SW.
Heywood Gull Lake (Nisswa)	1.7 SSW,lake S	1200	26 S1	80,91 oct.Trees,poles sur fld.
(P) Hibbing	4.5 SE,lake NNW	1367	40h S6	80 oct.
Kenyon	0.8 S,RR E	1240	20 S1	80 oct.Poleline N, NE.
Lake City (Frontenac)	0.5 SE,RR N	775	44 R1 L3 S6	80 oct.
Le Sueur	1.1 S,riv W	900	20 S1	80 oct.Poleline SSW. Rolling.
Litchfield	1.2 NE,RR S	1140	24 S1	Ltd 80 oct. Trees W.
Littlefork	1.8 WNW,riv E	1153	19 S1	80 oct. Poleline S.
Mankato	1.7 SE,hwy W	996	33 L1 S6	80 oct.Pwrline E, NE.
(P) Monticello	1.3 NNE,road S	940	50 S6	80 oct.
New Ulm	1.8 W; RR N	1000	32 S1	80 oct. Poleline N. Hwy N.
Northport (White Bear Lake)	3.2 E, hwy N	1000	23 S6	80 oct.
Osseo	2 NE	875	30	Data not verified.
(P) Otis Lodge (Grand Rapids)	7.5 SW,lake S	1293	30 S1	80 oct. Poleline E.
Pleasant Corner (Dodge Center)	2 ESE;RR N,W	1050	16 S1	80 oct.Poles S,SE; trees SW.
Princeton	1 W, RR E		20 S1	80 oct. Data not verified.
Robbinsdale	0.8 NW,RR E	879	17 S6	80 oct.
St. Paul	1.5 SE,riv E	704	55h L4	
St. Peter	2.4 NNW,riv E	900	23	Poleline S.
Sells Flying Field (Mayer)	0.4 SSE	750	12	(NC)
Taylor Falls	1.5 W,RR S	950	23 S4	80 oct. No sto.
University of Minnesota (New Brighton)	3.8 N, hwy W	909	34 S6	80 oct. Trees E.
Victory (Minneapolis)	9 N, riv E	860	33 S6	80 oct.

MINNESOTA

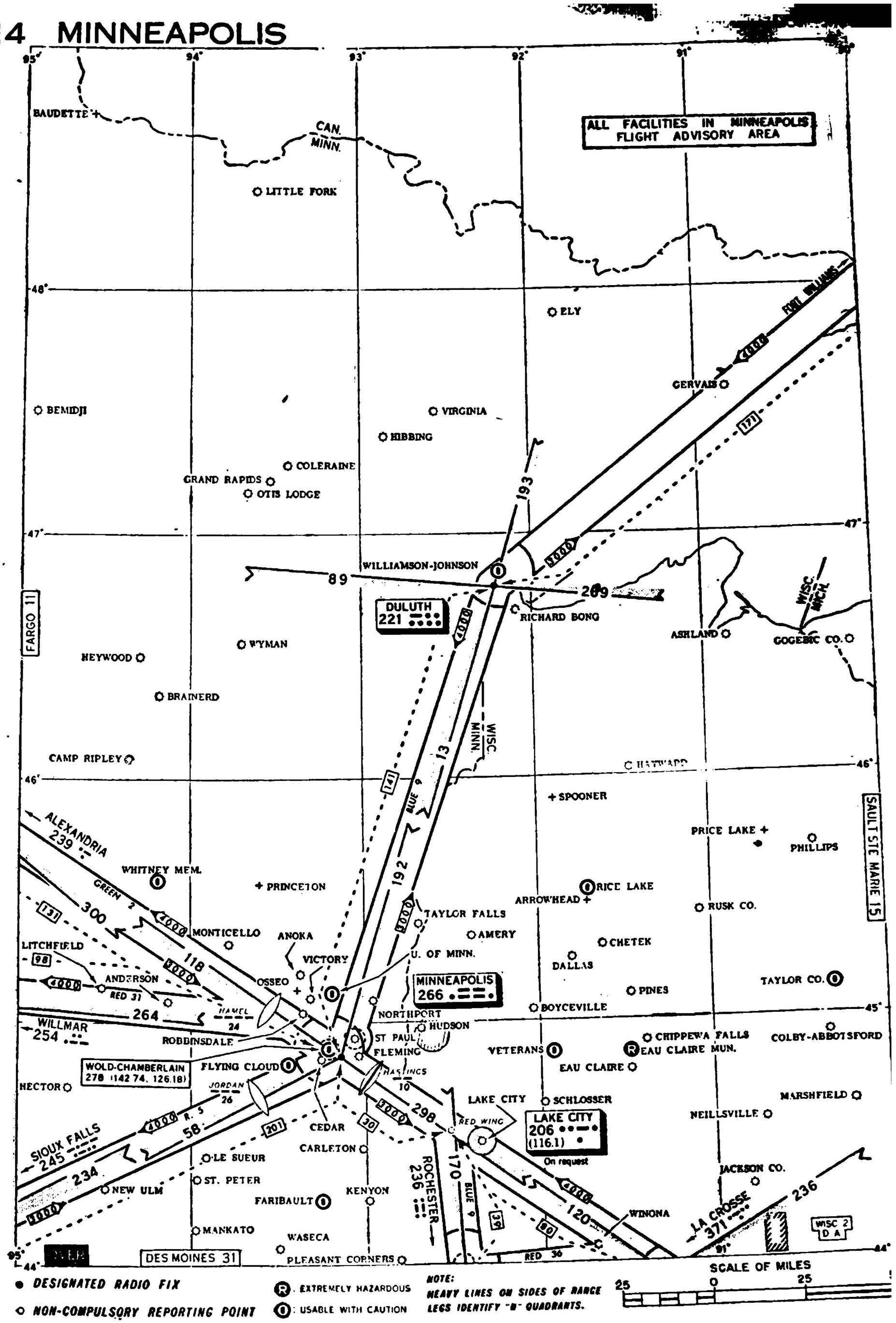
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Virginia	2 WSW,bet RRs	1429	35 S2	73 oct. Poles N.
Waseca	0.5 S,RR NW	1150	39 S1	80 oct. Poleline N,W, E.
(P) Whitney Memorial (St. Cloud)	1.5 NNW,riv NW	1034	32 L3 S6	80 oct.
(P) WILLIAMSON-JOHNSON (Duluth)	6.5 NNW,hwy S	1428	57h R1 L1 S6	80,91 oct. ARPT OF ENTRY.
Winona	4.5 WNW	670	19 L3 S1	80 oct. Bet. RRs.
(A,N) WOLD CHAMBERLAIN (Minneapolis)	6.5 SSE,hwy S	834	59h R2 L4 S6	87-100 oct. JP-1. Rdo rec required.
Wyman (Aitkin)	1.3 N,riv S	1200	8	Poles W.

WISCONSIN

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Amery	3.4 NNW,hwy N	1100	26 S1	80 oct.Poleline SE.
Arrowhead (Rice Lake)	1.3 SE,lake SE	1147	24 S4	80 oct.Trees SE.Data unverified.
Ashland	2.5 SSE,RR E	700	22 S3	80 oct. Hi-lines NE, SW.
Boyceville	0.5 SSW,hwy N	948	24 S2	80 oct.Obsts sur fld.
Boyd's Mason Lake (Fifield)	13 WSW,lake NW	1200	26	
Chetek	1.5 SE,RR S	1050	22 S1	80 oct.Trees N,SE,NW; pole S.
Chippewa Falls	2 S,RR NW	910	26 S2	80 oct.Pole line W, NW.
Colby-Abbotsford (Colby)	1.2 NNW,RR E	1400	19 S1	80 oct.
Dallas	0.7 SSE,RR W	1100	22 S1	80 oct.Pole line S.
Eau Claire	1.5 SSE,riv NW	884	40 S6	80 oct. Obsts sur fld.
(P) Eau Claire Municipal	3.5 NNE,riv NW	885	28	
Hayward	2 NE,RR NW	1200	30 S1	80 oct.
Hudson Flying Service	3.8 E,hwy N,W	850	15	Pwrline N, W.
Jackson Co. (Black River Falls)	2 E, RR W	855	25 S1	80 oct.
Marshfield	2.3 SSW,hwy W	1253	20 S2	80 oct.
Neillsville	5.7 W,hwy SW	1000	21 S1	80 oct. Trees around fld.
Phillips	1.2 N,riv S	1140	30 S2	80,91 oct.Pole line W, S.
Pines (Bloomer)	0.9 E,RR W	1050	16 S1	80 oct. Poles S, W.
Price Lake (Phillips)	12.5 WNW	1140	22 S1	80 oct. Data not verified.
Rice Lake	3.5 NNE,RR W	1150	26 S1	80 oct. Poles sur fld.
Richard Bong (Superior)	2.3 SW,RR E	674	33 S4	80 oct.Pole line SE. 353' twr NW.
Rusk County (Ladysmith)	2.8 SE,RR SW	1150	11 S1	80 oct.
Schlosser (Durand)	2.4 NNW,riv W	800	32 S1	80 oct.
Spooner	5 N	1072	20 S1	80 oct.Data not verified.
Taylor County (Medford)	2 SE	400	19 S2	80 oct.Pole line N; bldg W, NE.
Veterans (Menomonie)	0.4 W,riv W	900	28	

L-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC (not charted). → NEW OR REVISED DATA.

14 MINNEAPOLIS



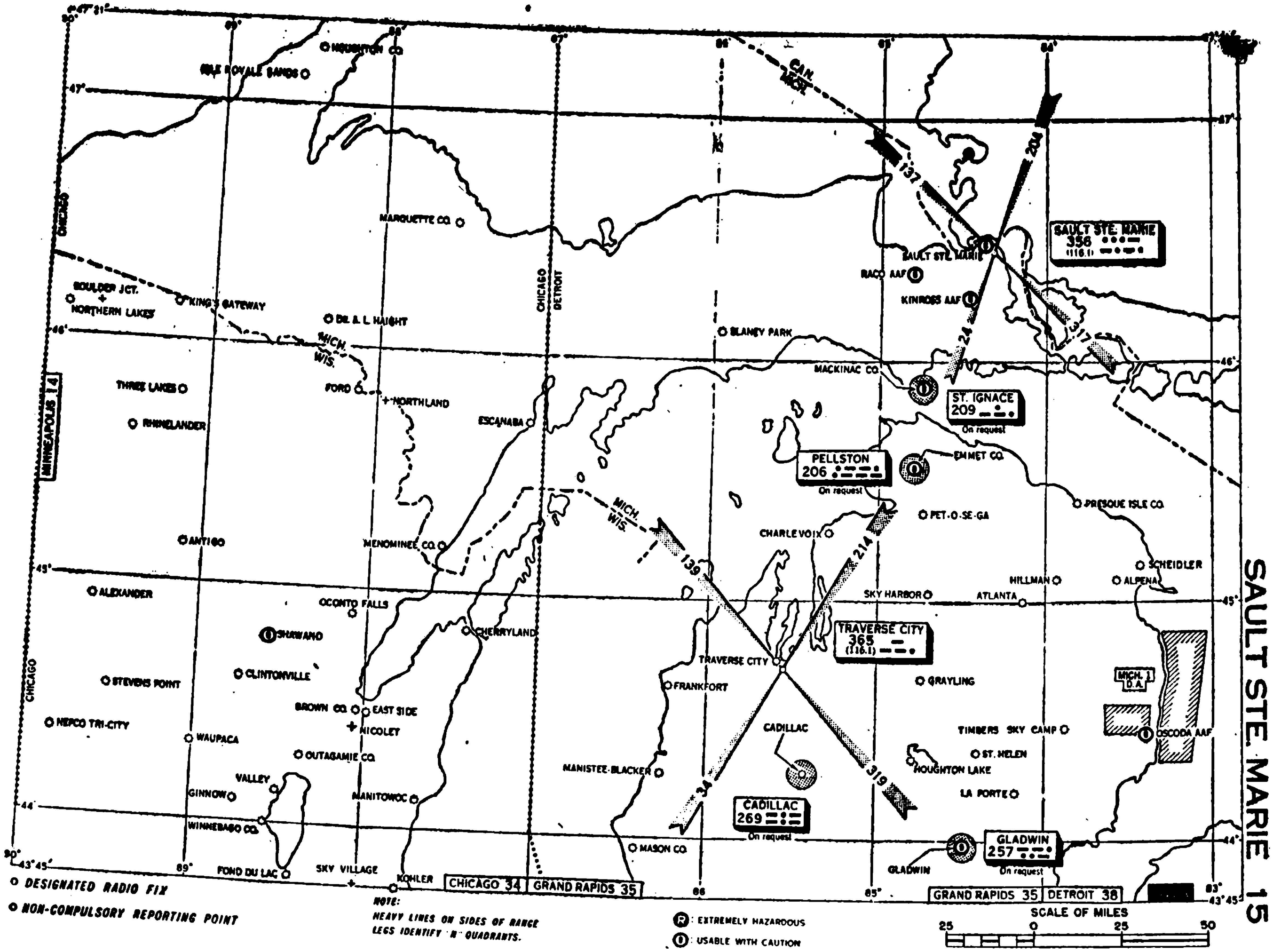
● *DESIGNATED RADIO FIX*

○ *NON-COMPULSORY REPORTING POINT*

Ⓡ : EXTREMELY HAZARDOUS

Ⓞ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.



SAULT STE. MARIE 15

RADIO

MICHIGAN

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CADILLAC	269 (KK)	MRT	(4)
GLADWIN	257 (GU)	MRT	(4)
PELLSTON(Emmet County)	206 (PJ)	MRT	(3) (6-22)
ST. IGNACE (Mackinac Co.)	209 (EQ)	MRT	(4)
→ SAULT STE. MARIE	356(VQL)116.1	SBMRAZ-VHT,317°,2.2	(4):116.1
TRAVERSE CITY	365(TQX)116.1	SBMRAZ-VHT:319°,2.3	(4):116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alger County (Munising)	4 SSE; hwy E	850	24	Twr N; woods all sides.
Alpena	6.5 WNW; RR S	685	50h	
Amasa (NC)	4 NW	1560	14	Not maintained.
Atlanta	0.8 ESE	875	20	Trees N, NW, W.
Baldwin (NC)	1.3 SSE; RR W	835	25	
Beaver Island(St.James)	4.2 SSW	620	35	(NC)
(P) Bellaire (NC)	1 NE; RR W,S	614	30	Poles SE; trees surround fld.
Big Lake (NC)	7.3 SW Baraga	1100	20	Trees on all sides.
Blaney Park	0.5 NW; lake N	850	18 S1	80,100 oct.
(P) Cadillac, 23, TL-VC	2.5 NW; RR E	1297	34 R1 L3 S4	80 oct.
Charlevoix	0.8 SW;lake NW	642	30 S1	80 oct. Poles W, NW, E.
Doherty (Clare)(NC)	1 NE	840	21	Poles S;NE cor. rough.
D.A.R. (Rexton) (NC)	1.9 WSW; RR N	900	22	Poles N.
(P) Dr. A. L. Haight (Crystal Falls)	1.3 ENE;lake E	1390	34 S4	80 oct. Trees, bldgs W.
East Jordan (NC)	1.9 SSE; riv W	640	26	Trees E, W.
(P) Emmet County (Pellston)	0.6 NW; RR E	707	54h R1 L3 S1	80,91 oct. Bcn on req.
Escanaba	2 SSW; hwy E	594	26 S4	73,80 oct.Trees E.
→ Ford (Iron Mountain)	2.5 W;riv W	1140	23 S6	80,91,100 oct.
Frankfort	1.9 ESE;lake W	650	29 S1	73,80 oct. Sur by hills.
(P) Gladwin	0.5 SSE; riv W	780	35 R1 L3 S1	80 oct.Poles NW.
Grayling	1.3 NW; RR W	1152	50h	
Harrison (NC)	2.3 NNW; hwy E	1100	22	Surrounded by trees.
Hillman	2.8 NW	995	20 S1	Ltd 73 oct. Woods all sides.
Houghton County(Calumet)	2 SE; RR W	1200	26 S4	80 oct. Twrs, poles W.
Houghton Lake (Houghton Heights)	1.2 WNW;lk NNE	1150	27 S2	73,80 oct. Radio twr W,N, lgtd.
Isle Royale Sands(Houghton)	2 ESE; lake SW	605	22 S4	80 oct.
Ishpeming-Dexter (NC)	7 W; RR N, S	1570	25	Poles N.
Kalkaska (NC)	0.5 WNW; RR E	1020	26	
(A) Kinross (A)	2.5 SE	780	55h	INACTIVE.
La Porte (West Branch)	6 SE; RR W	890	26	Pole line NW; trees NE, SW.
Luce County (Newberry)	4.1 SE; hwy S	872	20h	(NC) Poles S; trees W.
Mackinac Co.(St. Ignace)	2 NNW; hwy E	600	26 R1 S2	80,91 oct.
Mackinaw City (NC)	5 S; RR W	700	22	
Manistee-Blacker	4 ENE; riv S	613	23 S2	73 oct.
Marenisco (NC)	1.6 E; hwy N	1551	20	Trees surround fld.
Marquette County	7.9 W; hwy S	1412	27 S2	80 oct. Poles W.
Mason County (Ludington)	1.7 ENE	640	30	Poles S.
Menominee County	5 NNE; bay E	590	27 S1	80 oct. Trees surround fld.
Mio (NC)	1.6 N; hwy W	1050	26	
Northland (Norway)	2 W	1060	33 S3	80,100 oct. Pole line N.
Norway Township(Loretto)	2.4 S; lake N	860	21	Trees on side strips. (NC)
(A) Oscoda AAP (A)	3.5 NW; lake E	605	50h	INACTIVE.
Otsego County (Gaylord)	1 SW; RR E	1384	30	Pole line NE (NC)
Pet-O-Se-Ga (Wildwood)	1.8 NW;lake NW	620	20 S2	80 oct.
Poschke's (Harbor Beach)	2.5 W; rd S	670	18	(NC)
Au Gres (NC)	0.9 NNW;hwy S	590	20	Poles NE,SW.
Calvin Campbell Mun. (NC)	0.8 SE;RR,hwy W	602	20	Pole line N,trees E,W,S(Indian Riv)

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii)(NC)-Not charted. → NEW OR REVISED DATA.

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Presque Isle (Rogers City)	0.7 SSE; hwy E	658	26 S2	No fuel
Prickett (Sidnaw)	0.5 N; RR SE	1300	18	Use caution.
(A) Raco AAP (A)	4 WSW; RR N	910	55h	INACTIVE.
Roscommon (NC)	3.5 SE;RR NE	1100	42	Pole line S.
St. Helens	0.9 SE; RR NE	1153	26	
(P) Sault Ste. Marie	1 SSW; hwy E	706	36 R1 L3 S4	80,91 oct. All lgts prior req. ARPT OF ENTRY
Scheidler (Alpena)	6.3 N; hwy NW	590	22 S1	80 oct.Pole lines N,SW.
(P) Schoolcraft County (Manistique)(NC)	3.3 ENE;lake S	678	31	Approaches 5:1
Steuben (Manistique)(NC)	20 NW	850	18	Woods all sides.
Timbers Sky Camp (South Branch)	0.2 NE; riv E	950	24 S1	80 oct.
(P) Traverse City	2.1 SE; RR NE	624	52h R1 L5 S6	80,91 oct.No sto.
Watersmeet (NC)	1.5 NNE;RR SSE	1581	24	Poles SE.
Sky Harbor (Gaylord)	1 WNW;RR N	1355	26 S1	73,80 oct.Pole line S.
Onaway (NC)	0.6 NNE;RR S	770	24	Trees SW,NW,SE.
Petosky-Harbor Spr(Petosky)	4.5 NE;hwy E,N	620	20	Pole line,ridges E,N. (NC)
Roscommon Co.(Prudenville)	4.5 N;riv N	1150	24	Trees sur fld (NC)

WISCONSIN

Alexander (Wausau)	2.5 S; riv SW	1191	27 L4 S4	73,80 oct. Lgts prior req.
(P) Antigo	2 ENE; hwy N	1483	33 S2	80,91 oct.
Arbor-Vitae (NC)	2.9 W; RR S	1600	22	Pole line E, N.
Brown County(Green Bay)	2.2 WSW; hwy SE	590	28 S6	80,91 oct. Pole line NE,SE,S.
(P) Cherryland (Sturgeon Bay)	2 WNW; bay E	590	40 S2	80 oct, Pole line W, S.
Clintonville	1 ESE; RR SW	828	34 S6	80,91 oct.No sto,Pole line SW.
Eagle River (NC)	1.3 NW; riv NW	1675	32	
Fon du Lac	2.6 ENE;lk NNW	769	26 S2	80 oct. 50' hi-line N.
Ginnow (Omro)	3 N; RR E	800	19 S2	80 oct. Trees SW.
King's Gateway (Land O'Lakes)	0.5 SSE; RR W	1736	31 S2	80 oct. Twr NE; pole line NW.
(P) Kohler	1 N; hwy S	647	30 L1 S6	80 oct. Obst, sur fld,
Manitowoc	1.6 NNW; RR W	653	26 L3 S4	80 oct. No bcn. Obsts sur fld.
(P) Nepco Tri City(Wisconsin Rapids)	2.5 SSW; riv W	950	36 L2 S2	80 oct. Lgts on req.
Northern Lakes(Manitowish)	6.8 E; hwy N	1600	35 S1	80 oct. Trees E, W.
Oconto Falls	2.7 ENE; RR S	600	20 S1	80 oct. Pole line N.
Outagamie Co. (Appleton)	2.2 ENE; RR S	750	29 S2	80 oct. Obsts sur fld.
Rhinelander	2 W; riv SE	1598	37 S2	80 oct. 10' bank NE.
Shawano	2.3 ENE;lake NE	813	19 S2	80,91 oct. Poles,trees sur fld.
Stevens Point	3 NE; riv SE	1090	40h S6	73,80 oct.
Three Lakes	0.5 S	1664	23	Bldgs, trees around fld.
Valley Airways (Neenah)	4 SSW; RR E	750	21 S2	80 oct Pole line E. Data unverified.
Waupaca	4 ESE;riv N, E	853	25 S1	80 oct. Trees around fld.
(P) Winnebago Co.(Oshkosh)	2 SSW; RR NE	776	50h L1 S4	80 oct.No sto.Poleline NE,N,W.Rnwys
Boulder Junction	1.5 NW		36 S1	80,91 oct. Data unverified. unver.
East Side (Green Bay)	1.8 SE;RR S	600	19 S1	80 oct.Pwr line N,NE,NW.
Merrill(NC)	1.2 NNW	1285	22	Pole line NE.
Tomahawk (NC)	0.5 WNW	1450	15	
Washington Island (NC)	0.6 NNE of Detroit Harbor	600	24	
Nicolet (De Pere)	1.5 S;RR E	620	22 S4	80 oct.Pole line E,W.Data unverified.
→ Sky Village (Plymouth)	1.8 WNW	900	18 S1	80 oct.Unverified.

RADIO

MAINE

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA	221(AW)(116.1)	BMRLZ-VDT;81°,2	(4);116.1
BANGOR (Dow)	239(BB)(116.1)	SBRAZ-VDT;172°,2.1	(3);116.1
DOW (Bangor)	278(126.18)	AC (ILS)	(4);118.7,131.9,126.18
EAST CORINTH FM	(- - - -)	FM,352°,13.5	Bangor
HOULTON	272(HJ)(116.1)	BMRLZ-VDT;195°,3.1	(4);116.1
LIMESTONE FM	(-)	FM, 57°,22.3	Presque Isle
MILLINOCKET	344(MT)(116.1)	SBRAZ-VDT;292°,1.6	(4);116.1
PRESQUE ISLE	388(ZQ)	SBRAZ-DT	(4)
Presque Isle AAP	278 (126.18)	AC(ILS);189°,3.4	(4);388,365,116.1, 140.1,131.9,126.18
Presque Isle AAF	365 (RU)	SBMLZ; 9°,3.8	(4)

VERMONT

BURLINGTON	323(JO)(116.1)	SBRAZ-VDT	(3);116.1
GRANDE ISLE FM	(- - - -)	FM, 349°,15	Burlington
HUNTINGTON FM	(- -)	FM, 151°,17	Burlington
MONTPELIER (Barre-Montpelier)	257(UV)(116.1)	BMRLZ-VDT;230°,2.8	(4);116.1
VERGENNES FM	(- - -)	FM,210°, 25.4	Burlington
Burlington Airport	278	C,151°,2.8	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
DOW, ME.	109.9		150° Mag.	IM	(.06)	MM	(.89)	OM	(4.80)
						MMK		OMK	
PRESQUE ISLE AAF, ME.	109.9		10° Mag.	IM	(.05)	MM	(1.00)	OM	(5.00)
						MMK 201	(1.00)	OMK 219	(5.00)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs; (4)-3105.4495.6210.3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
AUGUSTA	1.5 WNW; hwy S	354	34h R1 L5 S6	80,91 oct.Fld lgts prior req.
Andover (NC)	2.5 S; hwy E	675	14	1125' hill, pole E.
Bar Harbor	9 NW; hwy W	87	45h S6	80 oct.
Bethel	1.6 NW; RR E	660	20 S1	80 oct.
Belfast	1 SW; hwy E	160	40h S4	80 oct. No sto.
Bishop (LaGrange)	0.8 N; RR W	360	20	WSW,ENE blocked.
Caribou	1 NW; hwy E	623	35h S6	80 oct.No sto.Bldg E.ARPT OF ENTRY
Deblois Flight Strip	2 SE; riv W,N	219	40h	
(P) Dexter	3 ESE; rd W,S	485	30h S2	80 oct.
Doanes (Brewer)	1.6 S; RR W	100	15 S5	80 oct. Poles NNE; trees SE.
(A) DOW (Bangor)(A)	2 W; RR S	160	70h R3 L6	INACTIVE.
Eastport	1.5 WNW;hwy NE	70	28h S1	80 oct. Pole line NW.
Fryeburg Airpark	1.3 E; RR S	400	20 S2	80 oct. Pole line S.
Greenlaw (Auburn)	1.8 W; hwy S	238	14 S6	80 oct. Bldg S.
Greenville	2 ENE	1750	30h L3 S1	80 oct.
Guertin (Lewiston)	1 NE	220	12 S2	87 oct. Trees,poles SSW.
HOULTON	2.5 E	474	57h R1	
" Flying Service	2.2 N; RR SW	380	14 S1	80 oct. Trees NNE.
LEWISTOWN-AUBURN(Auburn)	4.5 SW; RR W	290	45h L5 S4	80,91 oct.
Maheux (Minot)	3.5 NNW;hwy NE	720	18 S6	80 oct. Trees SSE.
Millinocket	0.5 SE; hwy W	404	50h R1 L5 S1	91 oct. Fld lgts prior req.
Newport	1.5 ESE; hwy N	280	21 S1	Ltd 80 oct. Pole line N.
Norridgewock	3.7 W;riv NE,W	270	40h	Trees ENE.
Norway	1 N; RR S	387	18 S1	80 oct. Pole line SE.
Old Town	1.8 NNW;riv N	109	40h L3 S5	80 oct.
Pittsfield	0.7 SSE;hwy E	190	40h S6	80 oct. Sand pile, bldg E.
Pittston	1.8 ENE; RR W	140	18	NW,SW,S blocked.
(A) PRESQUE ISLE AAF (A)	1.5 WNW; RR E	517	68h R3 L6 S6	91,100 oct. No sto.ARPT OF ENTRY
Princeton	1.5 SSE; hwyNE	250	40h	
Rangeley	1.6 NNW;hwy S	1810	15	
→ Raymond's (Phillips)	0.8 S; riv E	556	22 S1	80 oct. Rnwy info unver.

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Rockland	3 SSE; rd NE	49	45h L5 S6	80,91 oct.No sto.
Rollins (Turner)	2.5 NNW; rd E	335	20 S6	80 oct.
Roy L.Fernald(Winterport)	3 WNW; hwy S	182	40h L3 S1	80 oct. Lgts prior req.
Tomlinson (Skowhegan)	1 NNE; riv S	240	28 S6	80 oct. Poles S, NW.
Waterville	1.8 SW; riv E	303	40h L5 S6	80,91 oct.Fld lgts prior req.
Weston (Madison)(NC)	1 N; riv W	300	19	Poles WSW.

NEW HAMPSHIRE

Berlin	7.5 N; riv W	1140	52h S3	80,91 oct.No sto.
Dean Memorial(Haverhill)	4.1 NE; RR W	570	15 S1	80 oct. Trees N, NW.
Lancaster Airpark	0.3 N; riv W		20 S1	80 oct. Data not verified.
Lewis (Littleton)	2.5 E; RR S	900	18 S6	80 oct. No sto.
Twin Mountain	0.8 SW; RR N	1430	18 S1	80 oct.
White Mtn. (North Conway)	1.9 SSE	540	23 S4	80 oct. Trees W, NW.
Whitefield	3 ESE; RR N	1030	24 S1	73 oct.

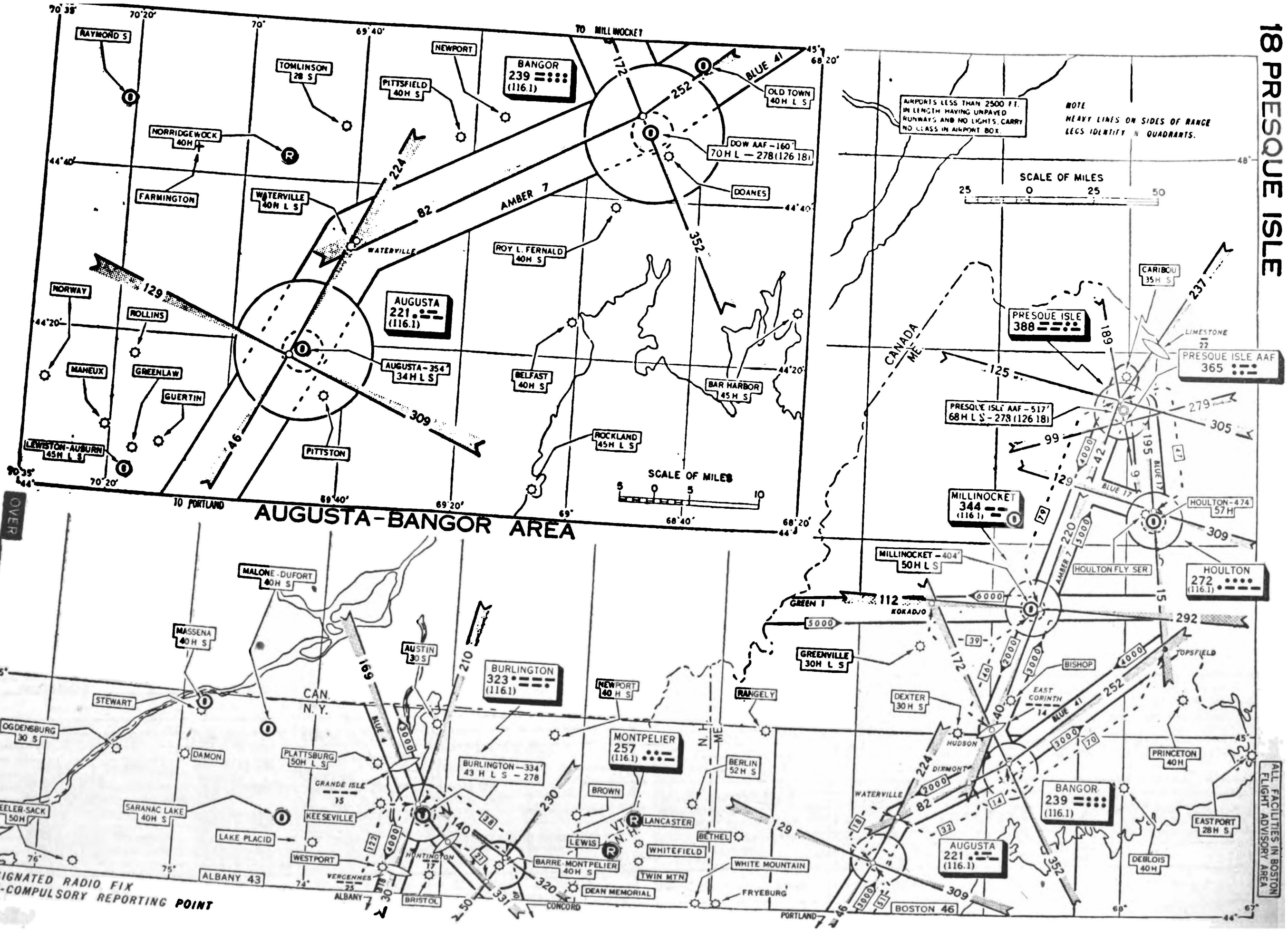
NEW YORK

	Bradley (Watertown) (NC)	2.2 N; RR E,W	435	18	Rough. Pole line W, SW.
	Damon (Potsdam)	1.5 E;riv,RR W	460	19 S1	80 oct. Pole line N.
	Keeseville	1.4 S; riv W	490	20	Pole W.
	Lake Placid	2 SE; RR NW	1750	21 S1	80 oct.
(P)	Malone-Dufort	2 W; RR N	790	40h S1	80 oct. ARPT OF ENTRY.
	Marcy (Keene)(NC)	2.5 S; hwy E	1000	18	Mtn N, S.
(P)	Massena	2.2 E; riv SE	200	40h L1 S6	80 oct.Bcn on req.Trees WSW.ARPT OF ENTRY
	Ogdensburg	1.5 SE; RR W	285	30 S6	80 oct.ARPT OF ENTRY
(P)	Plattsburg, mur.	3.4 WSW;riv W	375	50h L5 S1	80,91 oct.
(P)	Saranac Lake	5.3 NW; RR NW	1655	40 L1 S1	80 oct. Bcn on prior req.
	Stewart (Massena)	2.1 SE; RR NE	210	20	
	Tupper Lake (NC)	1 E; RR NW	1680	8	Use strips only.
	Westport	2 S; RR W	285	22 S2	80 oct.
	Wheeler-Sack(Great Bend)	1 NNW; riv S	680	50h	

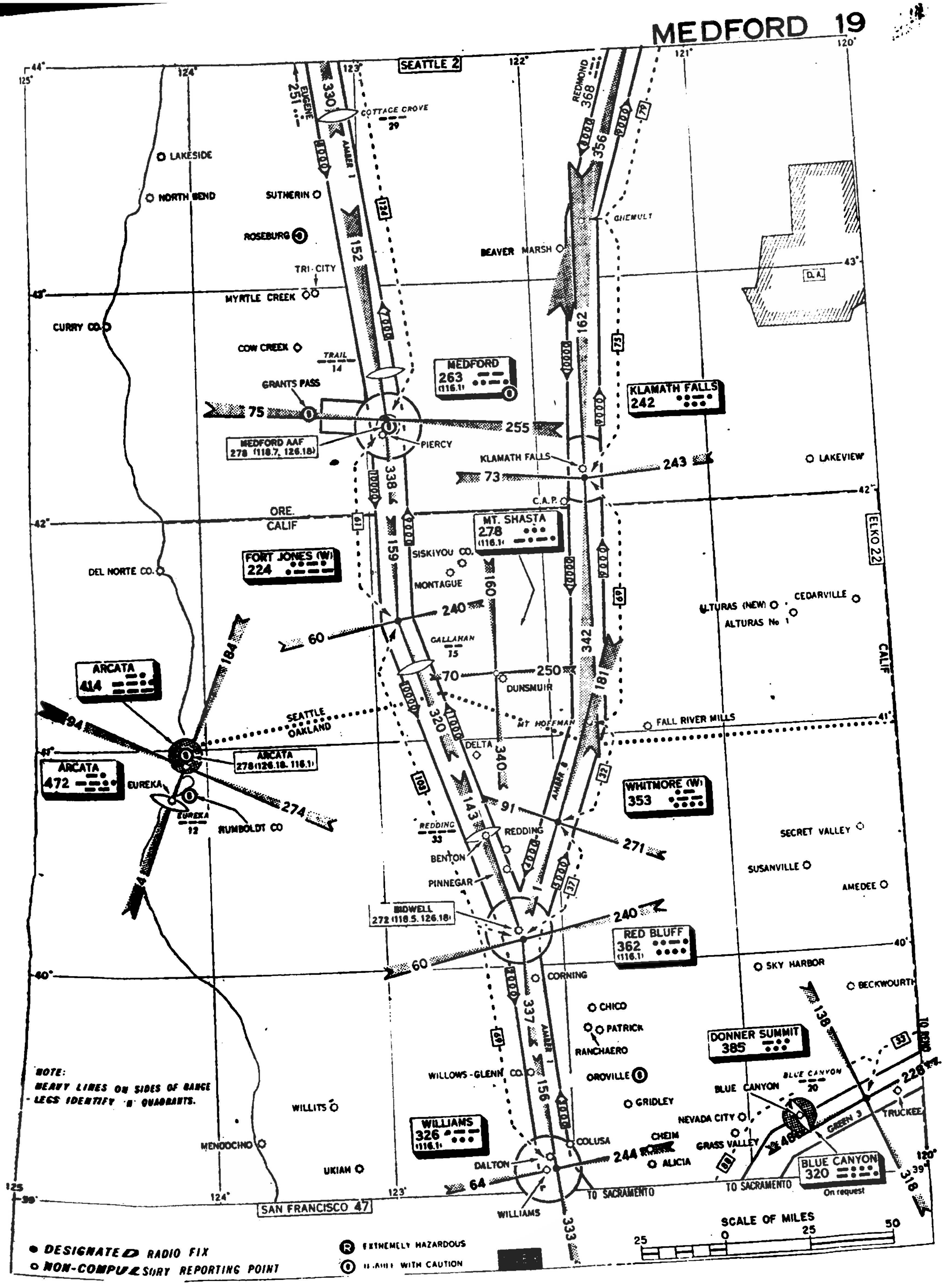
VERMONT

Austin (Swanton)	1.7 NE; RR W	235	30 S6	80 oct. No sto. ARPT OF ENTRY.
BARRE-MONTPELIER(Berlin)	0.8 SE	1149	40h R1 L5 S2	80,91 oct.
Bristol	0.7 W; riv SE	570	22 S6	80 oct. 1680' mtn SE.
Brown (St. Johnsbury)	5.2 N; RR E	807	23 S2	80 oct. Hills W, SW.
BURLINGTON	3 E; lake N	334	43h R2 L5 S6	80,91 oct. ARPT OF ENTRY.
Newport	3 SSW; RR E	930	40h L2 S1	Ltd 80 oct. All lgts prior req.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii)(NC)-Not charted. → NEW OR REVISED DATA.


AUGUSTA-BANGOR AREA
RAYMOND S
TOMLINSON 28 S
NEWPORT
PITTSFIELD 40H S
BANGOR 239 (116.1)
OLD TOWN 40H L S
DOW AAF – 160' 70H L – 278 (126.18)
DOANES
NORRIDGEWOCK 40H
FARMINGTON
WATERVILLE 40H L S
ROY L. FERNALD 40H S
AUGUSTA 221 (116.1)
AUGUSTA – 354' 34H L S
NORWAY
ROLLINS
MAHEUX
GREENLAW
GUERTIN
LEWISTON-AUBURN 45H L S
PITTSTON
BELFAST 40H S
BAR HARBOR 45H S
ROCKLAND 45H L S
SCALE OF MILES
TO MILLINOCKET
TO PORTLAND
BLUE 41
AMBER 7
OVER
MALONE-DUFORT 40H S
MASSENA 40H S
AUSTIN 30 S
BURLINGTON 323 (116.1)
NEWPORT 40 H S
RANGELY
STEWART
CAN.
N.Y.
OGDENSBURG 30 S
DAMON
PLATTSBURG 50H L S
GRANDE ISLE
BURLINGTON – 334' 43 H L S – 278
MONTPELIER 257 (116.1)
BERLIN 52H S
WHEELER-SACK 50H
SARANAC LAKE 40H S
KEESEVILLE
LAKE PLACID
WESTPORT
BROWN
LANCASTER
LEWIS
BARRE-MONTPELIER 40H S
WHITEFIELD
BETHEL
TWIN MTN
WHITE MOUNTAIN
DEAN MEMORIAL
FRYEBURG
CONCORD
BRISTOL
ALBANY 43
ALBANY
PORTLAND
BOSTON 46
BLUE 4
AMBER 1
GREEN 1
ESIGNATED RADIO FIX
ON-COMPULSORY REPORTING POINT
ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
AIRPORTS LESS THAN 2500 FT. IN LENGTH HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.
SCALE OF MILES
CARIBOU 35H S
PRESQUE ISLE 388
PRESQUE ISLE AAF 365
LIMESTONE
PRESQUE ISLE AAF – 517' 68H L S – 278 (126.18)
CANADA
ME
MILLINOCKET 344 (116.1)
MILLINOCKET – 404' 50H L S
HOULTON – 474' 57H
HOULTON FLY SER
HOULTON 272 (116.1)
KOKADJO
GREENVILLE 30H L S
DEXTER 30H S
BISHOP
TOPSFIELD
EAST CORINTH
HUDSON
DIXMONT
PRINCETON 40H
BANGOR 239 (116.1)
AUGUSTA 221 (116.1)
EASTPORT 28H S
DEBLOIS 40H
BLUE 17

MEDFORD 19


SEATTLE 2
EUGENE 251
330
COTTAGE GROVE 29
AMBER 1
LAKESIDE
NORTH BEND
SUTHERIN
ROSEBURG
TRI-CITY
MYRTLE CREEK
CURRY CO.
COW CREEK
TRAIL 14
GRANTS PASS
MEDFORD 263 (116.1)
MEDFORD AAF 278 (118.7, 126.18)
PIERCY
REDMOND 368
356
79
BEAVER MARSH
CHEMULT
152
162
173
D.A.
43°
KLAMATH FALLS 242
255
75
KLAMATH FALLS
243
73
LAKEVIEW
C.A.P.
42°
ORE.
CALIF
MT. SHASTA 278 (116.1)
FORT JONES (W) 224
SISKIYOU CO.
MONTAGUE
DEL NORTE CO.
159
160
240
60
GALLAHAN 15
ELKO 22
CEDARVILLE
ALTURAS (NEW)
ALTURAS No 1
CALIF
ARCATA 414
184
94
SEATTLE OAKLAND
70
250
DUNSMUIR
342
181
MT HOFFMAN
FALL RIVER MILLS
41°
ARCATA 278 (126.18, 116.1)
ARCATA 472
EUREKA
EUREKA 12
HUMBOLDT CO
274
DELTA
320
340
103
143
91
AMBER 3
32
WHITMORE (W) 353
REDDING 33
REDDING
271
BENTON
PINNEGAR
SECRET VALLEY
SUSANVILLE
AMEDEE
MIDWELL 272 (118.5, 126.18)
240
RED BLUFF 362 (116.1)
60
40°
CORNING
SKY HARBOR
BECKWOURTH
CHICO
PATRICK
RANCHAERO
337
AMBER 1
69
DONNER SUMMIT 385
138
80
TO RENO
WILLOWS-GLENN CO.
OROVILLE
BLUE CANYON
BLUE CANYON 20
228
GRIDLEY
NEVADA CITY
GREEN 3
TRUCKEE
WILLITS
WILLIAMS 326 (116.1)
156
COLUSA
CHEIM
GRASS VALLEY
49
MENDOCINO
UKIAH
DALTON
244
ALICIA
BLUE CANYON 320
On request
120°
39°
64
TO SACRAMENTO
TO SACRAMENTO
318
125
39°
124°
123°
SAN FRANCISCO 47
WILLIAMS
333
SCALE OF MILES
25
0
25
50
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R EXTREMELY HAZARDOUS
CAUTION WITH CAUTION

RADIO

CALIFORNIA

LOCATION	FREQ.,IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCATA (UAL)	472 (NZM)	MRL	(3)
Arcata Airport	278 (116.1)	CI;4°, 3	(3); 116.1,126.18 (8-17)
Arcata (H fac)(UAL)	414(NZO)(126.18)	H;310°,.15	(4) Z mrkr 200' fr SE end Rnwy 31
→ BIDWELL (Red Bluff)	272 (118.5) (126.18)	C	(4);126.18,131.9(6-22)
BLUE CANYON	320 (BC)	MRT	(4)
BLUE CANYON FM	(- - -)	FM, 228°,19.5	Donner Summit
CALLAHAN FM	(- -)	FM, 140°, 15.1	Ft. Jones
DONNER SUMMIT	385 (DS)	BMRL-DT	(4)
EUREKA FM	(- - -)	FM, 184°,11.7	Arcata.
FORT JONES	224 (FJ)	SRAWZ	
MT. SHASTA	278 (SC)(116.1)	BMLZ-VDT, 116°,2.2	(4); 116.1
RED BLUFF (Bidwell)	362(PH)(116.1)	SBRAZ-VDT,323°,2.5	(3); 116.1
REDDING FM	(- - - -)	FM, 323°,33.2	Red Bluff.
WHITMORE	353 (AWH)	MRLWZ	
WILLIAMS (Int.)	326(WS)(116.1)	SBMRAZ-VDT,244°,2.2	(4); 116.1
		OREGON	
COTTAGE GROVE FM	(- - -)	FM, 150°, 29	Eugene
→ KLAMATH FALLS	242 (FS)	SBRAZ-DT,342°,2.7	(4)
MEDFORD	263(MF)(116.1)	SBRAZ-VDT	(3); 116.1
→ Medford AAF	278 (126.18) (118.7)	AC; 158°, 2.4	(4); 126.18,131.9,118.7
TRAIL FM	(- - - -)	FM, 332°, 14	Medford

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station.(3)-3105,4495,6210 kcs.. (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
(P) Alicia (Marysville)	3.2 SSE;RR W,E	63	60h L5 S6	80,91 oct;100 oct on req.
(P) Alturas (new)	6.8 WNW;riv S	5034	63h	
#1	1 W;RR S	4391	28 S6	80 oct. →
Amedee Flight Strip	4 SE;RR N	4007	70h	
Arcata	7.6 NNW	217	60h R2	
Ash Creek,USPS (McCloud)	11.2 ENE	3850	30	Clsd Dec-May.Trees SE,NW (NC)
Beckwourth	0.8 ENE;RR S	4900	26 S6	73 oct.
Benton Airpark(Redding)	1.1 WSW;riv E	719	25 L3 S4	80,91 oct.
BIDWELL (RED BLUFF)	1.7 SSW;RR E	354	40h R2 L5 S4	80,91,100 oct.
★ Blue Canyon Int,13,SP-SL	1.1NNE;RR S,E	5280	34 R1 L3	Obsts N,E.
Cedarville	0.6 S;lake E	4260	26 S2	80 oct.Pwr line E.
Cheim (Marysville)	1.5 NE;hwy S	67	30 S6	80,91 oct.No sto.Levee N,NE.
Chester, USPS (NC)	1.5 SSW;RR N	4525	31	18' pole line W.
Chico	5 N;rd E	250	67h	
Colusa	1.2 SW;RR W	47	29 S4	80 oct.Pole line NNW
Corning	1.3 NE;RR W	300	30 L1 S2	80 oct.
Delton Com. (Williams)	1 ENE;RR SW	80	30 S2	80 oct.Pwr line S.
(P) Del Norte Co. (Crescent City)	2.5 NW	57	60h	
★ Delta Int,22,SP-SA	1SW;RR,hwy N	1320	18 L3	800-1000' mtns E,W
Dunsmuir ,25B,SP-SA	4.5 N;RR W	3240	30 R1 L3 S2	80,91 oct.Poles E,N, lgtd.
Eureka	2 W; Bay E	20	24h	
Fall River Mills	1 N;riv E	3300	26	
Fort Jones (NC)	1.5 W;riv SW	2745	30	Pole line NW
Gasquet (Crescent City)	13 ENE;hwy S	390	25	Hazardous-bad appch.USPS (NC)
Grass Valley	0.8 W;hwy N	2600	18 S1	Ltd 80 oct.Trees sur fld.Pole line NE.
Grevelly Valley, USPS (Upper Lake)(NC)	20 N;lake S	2000	49	Road crosses NE/SW strip.
Gridley	0.7 ENE;RR W	97	26 S6	80,91 oct. Pole line N,S.
Hayfork, USPS (NC)	1.2 E;rd N	2350	23	Pole line W,mts E.
Humboldt County (Eureka)	3.4 ENE;RR SW	10	49 S4	80 oct.Poles NW.
→ Mendocino(Little River)	2.5 SE	572	53h	
Montague	1 W;RR N	2520	32 L1 S4	80,91 oct.
Nevada City	1.5 NW;rd S	3060	26 S4	80 oct.
→ Orleans, USPS (NC)	0.5 W;hwy S	493	12	Pole lines NE.
Oroville	3 SW;riv E	199	60h L3 S1	80,91 oct.Port,rmry lgts mrkr req.
Patrick (Chico)	2 SSE;RR E	189	34 S6	80,91 oct. Poles N.
Pinegar (Anderson)	1 S;canal E	435	23 S1	73 oct.
Rogahoro(Chico)	2.2 WSW;riv W	170	22 S4	80,91 oct. hwy NE

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page Xiii) (NC)-Not charted. → NEW OR REVISED DATA

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
Ravendale (NC)	0.2 N;RR W	5260	18	
Redding	7.5 SE;riv S	500	61h L3 S1	
Round Valley (Covelo)(NC)	0.8 SW;hwy E	1385	30	
★ Secret Valley Int,52,	3.6 ESE Kerlo	4435	50 L3	RV-ND
(P) Siskiyou Co. (Montague)	4.3 NE;RR W	2647	73h L5	
Sky Harbor (Quincy)	2.5 E;RR N	3400	28 S2	73 oct.Poles S.
Susanville	6.5 SE;hwy SW	4150	32 S6	73 oct.Pwr line N.
★ Truckee Int,16B,SP-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec-Apr.
Ukiah	1 S;RR E	612	40h L5 S4	80 oct. No sto.
Weaverville, USPS (NC)	1 SSE; hwy E	2040	22	30' poles S.
★ Williams Int,9,SP-SA	4 S;RR E	120	42 R1 L3	
Willows-Glenn Co.	1.3 WSW;RR E	130	45h L1	
Willits	1.3 ENE;RR W.	1356	20 S1	80 oct.Trees E,pole line W.
		OREGON		
★ Beaver Marsh Int,73,RV-ND	6.2 SSW Che-mult	4630	54 L3	
Civil Air Patrol (Worden)	1 S;RR NW	4080	37 S6	80 oct.No sto.Pwr line NNE.
Grants Pass	1.6 N;RR W	1050	20 S5	73,80 oct.Poles,trees,N.
★ Cow Creek Int,37B,SP-SA	2.5 ENE Glen-dale	1429	23 L3	Creek S.
(P) Curry Co. (Denmark)	3.8 WSW	214	51h L5	Fld lgts prior req.
Illinois Valley Landing Fld (Cave Junction)	4.3 SSW;riv 1E	1350	43	Tree NNE.USPS. (NC)
Klamath Falls	4.9 SSE;RR NE	4085	71h R1 L5 S1	80,91,100 oct.
Lakeside	0.25 NE;hwy W	20	30 S4	80 oct.No sto.Pole line S.
Lakeview	3.5 SW;RR E	4728	53h	
(A,N) MEDFORD AAP	3.2 N;RR E	1329	54h R2 L5 S4	80,91,100 oct.No mntnc;mil acft. Pole line NE
★ Myrtle Int,39A,SP-SA	4 SW;riv,RR W	700	25 L3	Hill N.
(P) North Bend	1.2 WNW;bay NE	17	50h	
Piercy (Medford)	2.6 NW;RR E	1325	20 S4	80 oct.No storage.Poles SE.
★ Roseburg Int,41A,SP-SA	2.4 NNW;RR E	506	38 S6	80,91 oct. No storage.
Sutherlin Sky Ranch	3.8 ENE;rd E,S	575	18	
Tri-City (Riddle)	3.5 NE;RR N,W	700	19	Pole line N,S;cattle on fld.

ELKO

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOISE (Gowen)	350 (BE)	SBRAZ-DT,110°,2.5	(3)
EAGLE FM	(- - - -)	FM, 321°, 11.5	Boise
GOWEN (Boise)	278(126.18) (118.3)	C	(4), 140.1,131.9,126.18, 118.3
MOUNTAIN HOME FM	(- -)	FM, 110°, 41	Boise

NEVADA

BATTLE MTN.	281(BP)(116.1)	BMRLZ-VDT, 301°, 5.5	(4), 116.1
CARLIN FM	(- - -)	FM, 230°, 19	Elko
DEETH FM	(-)	FM, 39°, 30.5	Elko
ELKO	391(EL)(116.1)	SBRAPZ-VDT, 200°, 0.8	(4), 116.1
FALLON NAAS	230 (VA)	SBRAZ-DT,219°,2.9	(4) Not manned cont.
HUMBOLDT (Int.)	209(HD)(116 1)	BMRLZ-VDT 228°, 2.6	(4):116.1
RENO (Hubbard)	254(RP)(116.1)	SBRAZ-VDT 161, 3.3	(4), 116.1
WADSWORTH FM	(-)	FM, 48°, 27	Reno
HUBBARD FLD (Reno)	278	CI	(4)(Wed,Sat,Sun 6-19, other days 8-1630)

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs.
(4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

IDAHO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bennett Flight Strip (Anderson Dam)	2.7 S,RR SW	4700	18	Pole line ENE.
Boise Airpark	1.8 WNW,RR S	2660	25 S6	73,80 oct.Trees SSE. NNW.
Bradley (Boise)	3.3 WNW,riv NE	2637	30 S6	80,91 oct.Trees SE.
Caldwell	1.3 W,RR N	2370	32 S6	80 oct.Trees NW,bldg NE.
Emmett	2.6 SW, RR NW	2300	28 S2	73 oct.
Floating Feather (Eagle)	2 E,hwy W	2635	38 S4	80 oct.Soft when wet.
Glenns Ferry	1.3 WSW,riv S	2556	34 S1	Ltd 80 oct.
(A) GOWEN (Boise)(A)	4.5 SSW	2857	77h R2	INACTIVE.
(A) Mountain Home AAF	10.7 WSW	3004	100h	INACTIVE. (A)
" Site 25,SL-PO	2 WSW	3240	48 L3	
Nyssa Arpk.(Parma)	6.1 NNW,RR W	2200	28 S4	80 oct.No sto.
Parma	0.6 SSE,RR NE	2225	23 S2	80 oct.25' poles NW.
Ritchey (Nampa)	2 E,hwy N	2535	28 L3 S6	73 oct.No bcn.Lgts prior req.

NEVADA

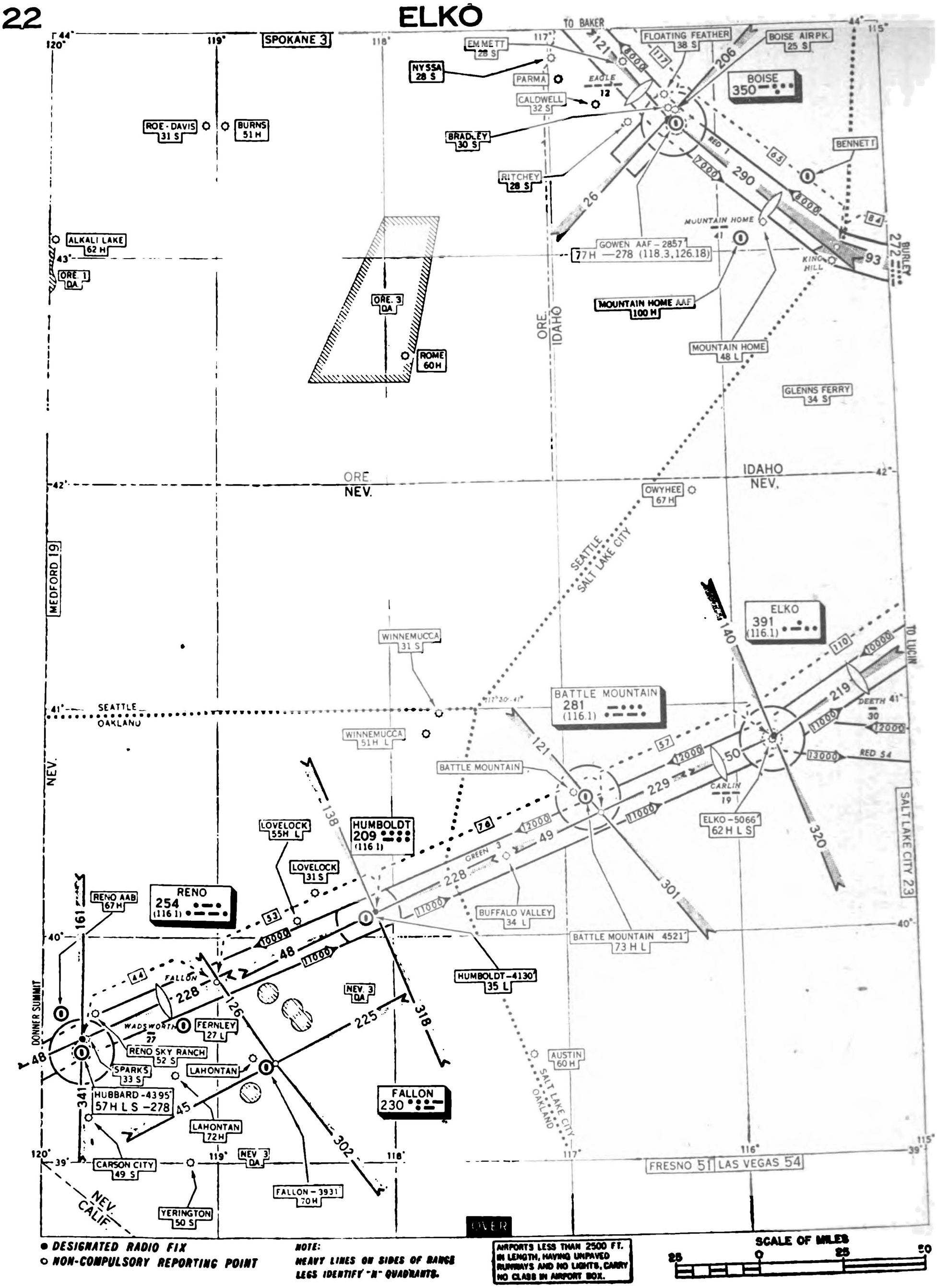
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Austin	7 WSW,riv NW	5730	60h	
Battle Mtn.	1.5 WSW,hwy N	4521	24 S2	73, 91 oct.
(P) " Flgt Strip,35, SF-SL	4 SE,RR N	4521	73h R1 L3	
* Buffalo Valley Int, 32, SF-SL	15 W Bailey	4664	34 L2	
Carson City	3.1 NE,hwy W	4684	49 S6	80 oct.Mts N,hill W.
ELKO	1.8 W,RR S	5066	62h R1 L5 S4	73, 91 oct.
* Fernley Int,22,SF-SL	3.3 E,hwy NW	4156	27 L2	
Fallon	6 SE,hwy S	3931	70h R1	Closed,emerg use only.
HUBBARD (Reno)	3.4 SE,RR N	4395	57h R1 L5 S4	80,91 oct.Fld lgts prior req.
* Humboldt Intl,28B, SF-SL	14 S Rochester	4131	35 R1 L3	
Lahontan (Fallon)	1.4 SSW,hwy N	4000	24 S4	80 oct.Poles ENE,WSW
" Flgt Strip	15.5 S,hwy N	4279	72h	(Fernley)
Lovelock	1.5 ENE,riv W	3986	31 S2	80 oct.
(P) " Site 26,SF-SL	9 SSW,RR NW	3906	55h L5	
Orovada (NC)	1.2 W,hwy E	4300	32	
Owyhee Flight Stp.	4.8 W	5379	67h	
(A) Reno AAB (A)	10.5 NNW,RR SW	5018	76h	INACTIVE.Mts sur fld
Reno Sky Ranch (Sparks)	8.5 NNE,hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
Sparks Airpark	0.6 N,RR S	4400	33 S6	80,91 oct.Poleline W.
Winnemucca	1 NE,RR NW	4303	31 S4	73 oct.
(P) " Site 32A,SF-SL	6 SW,RR N	4303	51h L5	
Yerington	1.2 N,RR W	4483	50 S1	73 oct.

OREGON

Alkali Lake Flgt Strip	7.5 N	4313	62h	
Burns	5.1 E	4140	51h L5	Contact lgts prior req
Roe Davis (Burns)	0.6 WSW,RR SE	4165	31 S6	80 oct.
Rome Flgt Strip	26.6 SW,hwy E	4050	60h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not charted → NEW OR REVISED DATA.

ELKO



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

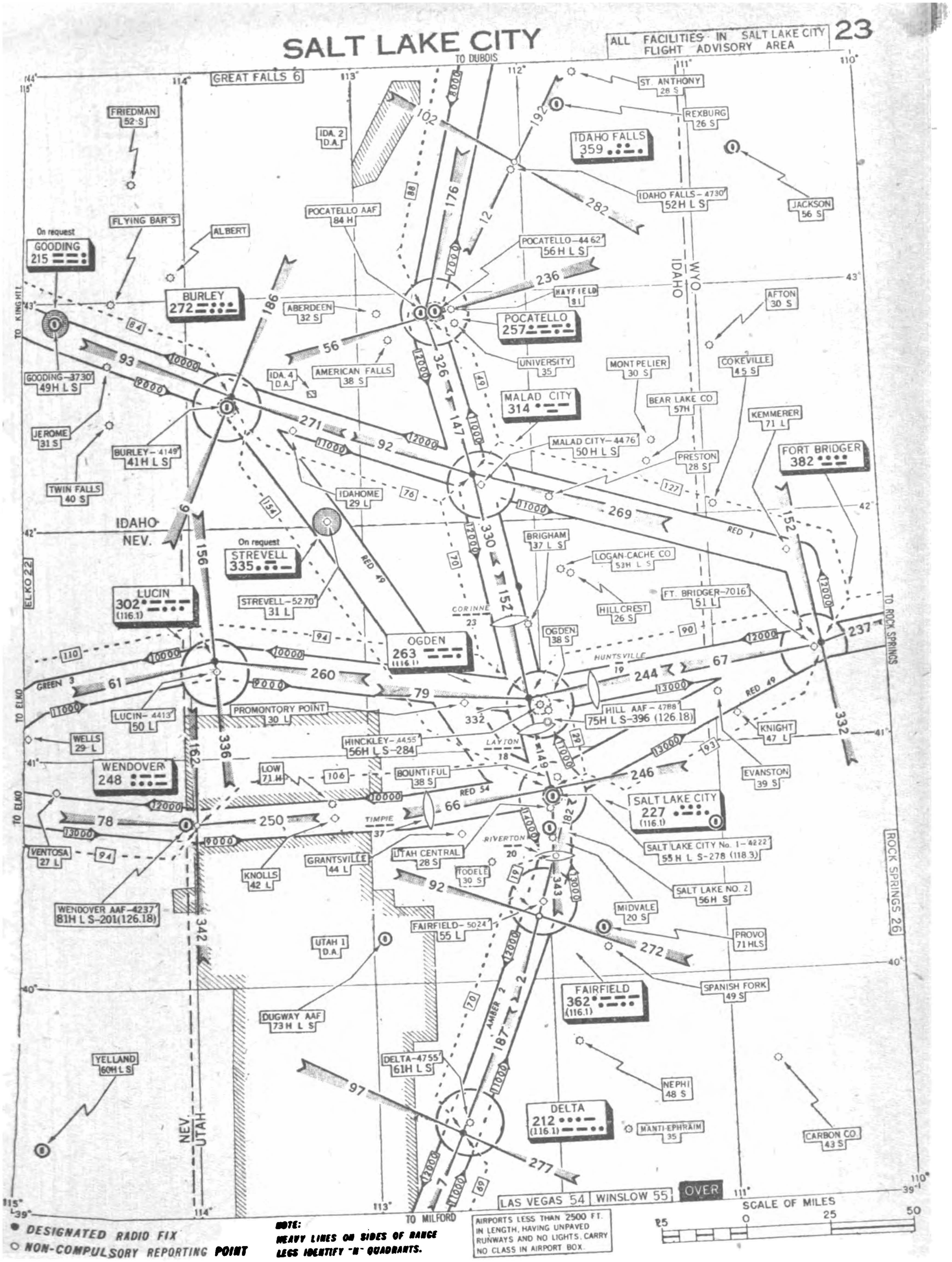
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
25 0 25 50

SALT LAKE CITY

ALL FACILITIES IN SALT LAKE CITY FLIGHT ADVISORY AREA

23



RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURLEY	272 (BX)	SBRAPZ-DT,209°,2.7	(4)
GOODING (new)	215 (GG)	MHT	(4)
IDAHO FALLS (Mun.)	359 (IF)	SBMRAZ-DT,192°,2.6	(4)
MALAD CITY (Int.)	314 (WT)	SBRAZ-DT,131°,3.4	(4)
POCATELLO	257 (PQ)	BMRLZ-DT, 56°, 2.5	(4)
STREVELL (Int.)	335 (TV)	MHP	(4)

UTAH

CORINNE FM	(- - - -)	FM, 332°, 23	Ogden
DELTA	212 (VZ)(116.1)	SBRAZ-VDT, 7°,3.6	(4); 116.1
FAIRFIELD (Int.)	362 (JL)(116.1)	BMRLZ-VDT, 2°, 4.4	(4); 116.1
HILL, OGDEN	396 (126.18)	CA	(4); 126.18
HUNTSVILLE FM	(-)	FM, 64°, 19	Ogden
LAYTON FM	(- - - -)	FM, 329°, 18	Salt Lake City
LUCIN (Int.)	302 (JB)(116.1)	BMRLZ-VDP,156°,2.4	(4); 116.1
OGDEN (Robert H. Hinckley)	263 (OG)(116.1)	SBRAZ-VDT,107°,3.4	(4); 116.1
RIVERTON FM	(- -)	FM, 163°, 19.5	Salt Lake City
ROBERT H. HINCKLEY,(Ogden)	284	CI	(4):(8:30-2130, Mon.&Tues. (1130-2130)
SALT LAKE CITY	227 (SL)(116.1)	SBRAZ-VDTX	(3); 116.1
Salt Lake City Arpt.#1	278 (118.3)	C; 163°, 3	**(4); 131.9,118.3.126.18, others on req.**
TIMPIE FM	(- - -)	FM, 246°, 37	Salt Lake City
WENDOVER	248 (WV)	SBMRAZ-DT	(4)
Wendover Field	201 (126.18)	CA; 258°, 2.2	(3):126.18 (8-22, other hrs. on 24 hrs advance notice)

WYOMING

FORT BRIDGER (Int.)	382 (HM)	SBRAZ-DT,228°,2.4	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen	2.7 SW;rd W	4460	32 S6	73 oct. No sto.
Albert,(Richfield)	5.2 NE;RR W	4400	23 S2	Ltd 80 oct.
American Falls	2 NE;RR NW	4404	38 S1	73 oct. Poles S.
Arco (NC)	1.5 ESE;hwy W	5330	26	Hills NE.
Bear Lake Co. (Paris)	3.3 ENE;riv NE	5928	57h	
Buhl (NC)	5.7 W;crk W,E	3690	41	
Burley	1.3 ENE;RR SW	4149	41h R1 L5 S4	80,91 oct.Pole line WNW.
Flying Bar "S" (Shoshone)	4.6 NNW;riv S	3900	12 S1	73 oct.
Friedman (Hailey)	0.8 S;RR E	5300	52 S1	73 oct.
Gooding (new)	3.5 WSW;hwy N	3730	49h R1 L5 S6	73 oct.
Gooding (old)	4 SSW	3570	20	
Tyhee (Hayfield)	2 SE;RR W	4600	31	
(P) IDAHO FALLS	2 NW;riv,RR E	4730	52h R1 L3 S6	80,91 oct.Polelines S,NE.
★ Idahome Int,13,SL-PO	0.8 NNE	4460	29 L3	
Jerome	3.3 ENE	3980	31 S1	73 oct.
MacKay (NC)	0.8 SE;RR NE	5900	30	Rough.
★ Malad City Int,9,SL-GT	2.6 WSW;riv WSW	4503	50h R1 L3 S1	73 oct.
POCATELLO	5.8 NW;RR S	4462	56h R1 L5 S6	80,91 oct.
(A) " AAF (A)	8.1 WNW	4445	84h	INACTIVE.
Preston	1.7 WNW;riv W	4800	28 S2	80 oct.
Rexburg	0.8 S;RR NW	4900	26 S4	80 oct.Rolling. No sto.
St.Anthony	1.1 SSE;RR W	4955	28 S1	73 oct.Poles,trees NNE.
★ Strevell Int,10, SL-PO	0.3 NNW;hwy W,S	5270	31 R1 L2	
Thousand Springs (Hagerman) (NC)	4.5 SSE;riv N	3000	30	
Montpelier	0.6 NNE; RR WSW	5900	30 S1	73 oct.Hills, trees S,SW,NE

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Twin Falls	6.5 S;creek N	4200	40 S6	80,91 oct.No sto.
University (Ham's)(Pocatello)	1 ENE;hwy W	4600	35 S2	Hills N,S.No fuel.
Victor (Bennett Fld)(NC)	0.8 SE;hwy W	6198	25	UNUSABLE.

NEVADA

★ Ventosa Int,48,SP-SL	0.5 N;RR S	5600	27 L3	
★ Wells Int,46B,SP-SL	1.5 S;rd W	5665	29 L2	
Yelland (Ely)	3.5 NNE;hwy E	6258	60h L3 S6	80 oct.Fld lgts prior req.

UTAH

Bountiful Sky Haven	2.6 WSW;rd E	4222	38 S4	80 oct.Pole line N,NW,SE.
Brigham	3 NW;RR S	4220	37 L3 S6	80 oct.
Carbon County (Price)	2.8 E;RR W	5800	43 S6	80 oct.
Delta	4.8 ENE;hwy NW	4755	61h R1 L5 S2	80,91 oct.
(A) Dugway (Tooele)(A)	41.5 SW;hwy E	4338	73h L5 S4	73,91,100 oct. CLOSED.
Duchesne (NC)	2.2 NNE;riv W	5700	55	Pole line W,NW.
★ Fairfield Int,59,LA-SL	6 NE;RR SE	5024	55 R1 L3	
★ Grantsville Int,60,SP-SL	3 N;RR E	4229	44 L3	Poles E.
(A) Hill (Ogden)(A)	6.5 S	4788	75h R1 L5 S6	63,73,91,100 oct.JP-1.
Hillcrest (Logan)	2.7 NE;RR W	4780	26 S6	80 oct.Mtn SSE.
(P) HINCKLEY (Ogden)	3.5 SW;RR NW	4455	56h R2 L5 S6	80,91 oct.
★ Knolls Int,56,SP-SL	5 ENE;RR S	4360	42 L3	
Logan-Cache Co.(Logan)	4 NNW;RR E	4460	53h L5 S6	80 oct.
Low Flight Strip	11.8 W;hwy S	4241	71h	
★ Lucin Int,52,Ogden Cut-off, SP-SL	3.5 E;RR S	4413	50 R1 L3	
Manti-Ephraim (Ephraim) (NC)	2.8 SW;RR SE	5500	35 S2	No fuel.
Midvale	3 WSW;RR NW	4500	20 S4	73 oct.No sto.
Mt. Pleasant (NC)	1.5 SSW;RR NW	5857	48 S2	80 oct.
Myton (NC)	1 E;riv N	5090	31	
Nephi	2.5 NW;RR E	4800	48 S1	Ltd 80 oct.
Ogden Airpark	4 S;hwy NE	4700	31 S4	73 oct.No sto.
★ Promontory Point Int,3, SL-PO	0.5 W;RR S,E	4280	30 L3	
(P) Provo	2.8 WSW;RR N	4490	71h L5 S6	73 oct.Fld lgts prior req.
SALT LAKE CITY #1	2.5 WNW;RR S	4222	55h R2 L6 S6	73,80,91 oct.Rdo rec req.
" No. 2	10.5 SSW;RR W	4617	56h S4	73 oct.
Spanish Fork	2 NW;RR SE	4560	49 S6	80 oct.
Tooele (NC)	1.4 WSW;RR W	4800	30 S4	80 oct.No sto.Mtns SE.
Utah Central (Salt Lake City)	4 SW;RR N	4240	28 S4	73 oct.Pole line N,NW.
(A) Wendover (A)	0.5 S;RR N	4237	81h R2 L5 S6	73,91,100 oct.JP-1.CLOSED.

WYOMING

Afton	0.3 SW;hwy E	6239	30 S5	73,80 oct. 40' trees N.
Cokeville	2.5 SSW;riv E	6250	45 S1	Ltd 73 oct.
Evanston	3.6 SSW	6800	39 S1	73 oct.200'hill SSE.
★ Fort Bridger Int,9,SL-OH	5 N	7016	51 R1 L3	Carter 3 mi NNW.
Jackson	9 N;riv W	6400	56 S1	73 oct.
★ Kemmerer Int,B17,BX-RT	1.5 NNW;RR S	7276	71 L3	
★ Knight Int,6,SL-OH	5 S;riv NNE	7615	47 L3	
Big Piney (NC)	2 N	6900	37	

RADIO — COLORADO

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
EAGLE (6 mi. ENE Eagle)	108.3 (EQ) (111.1,116.1)	VAR-VDT	4495,3117.5,116.1,131.7
GRAND JUNCTION (12.7 mi. SW of Walker Field)	108.7 (EJ) (111.1,116.1)	VAR-VDT (ILS)	3105,4495,3117.5:131.7, 116.1 only.
WYOMING			
CASPER (Wardwell Field)	269 (CW)	SBRAZ-DT,263°,2	(4)
DOUGLAS (Int.)	251 (DQ)	HT	(4)
LARAMIE (Gen'l. Brees Field)	245 (LR)	SBMRAZ-DT, 137°, 2.2	(4)
MIDWEST FM	(- - - -)	FM, 339°, 15.1	Casper
PT.OF ROCKS FM	(-)	FM, 66°, 15.4	Rock Springs
ROCK SPRINGS (new)	290(RT)(116.1)	SBRAZ-VDT, 246°,2.8	(4); 116.1
SILVER CROWN FM	(- - -)	FM, 282°, 12	Cheyenne
SINCLAIR (Int.)	209(XP)(116.1)	SBMRAZ-VDT, 80°, 1.7	(4): 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WALKER, COLO.	110.3 .•.-	335	110°Mag	IM	MM ····· (.69)	OM — — (4.52)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117 5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — COLORADO

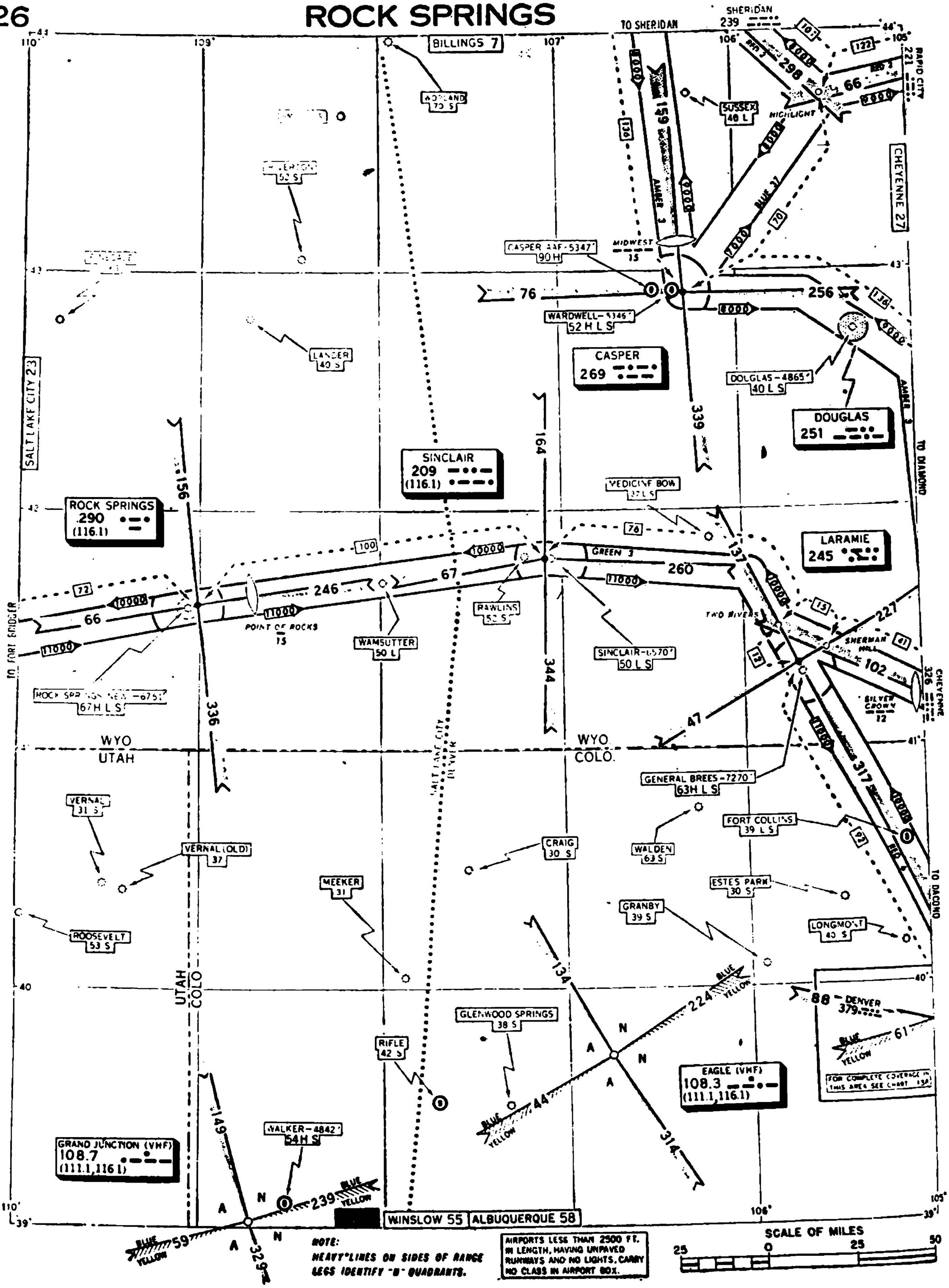
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Craig	1.8 SE;riv N	6300	30 S6	80, 91 oct.
Estes Park	2 SE;riv N	7635	30	Closed till June '47
(P) Ft.Collins,5,DV-LR	4 WNW;rd S	5150	39 L2 S6	73,80 oct.Poles SE.
Glenwood Sprgs.	2 S	5900	38 S1	73 oct.
Granby	1 ENE;riv W	8200	39 S1	80 oct.Poleline E.
Leadville (NC)	3 NNW;hwy E	10,000	45	
Longmont	2.9 W;RR N	5030	40 S6	80,91 oct.Trees NW.
Meeker	1.3 E;hwy S	6300	31	
Rifle	3.3 E;riv N	5400	42 S1	80 oct.
Teter (Fairplay)	3 SSE;hwy E	9700	67	(NC)
Walden	1.5 N;hwy W	8250	63 S1	80 oct.
(P) WALKER (Grand Junction)	2.8 NNE;rd W	4842	54h L3 S6	80,91 oct.
UTAH				
Roosevelt	1.3 NE;hwy S	5000	53 S2	80,91 oct.Poleline SE,E
Vernal (new)	1 SSE;hwy N,E	5280	36 S6	80,91 oct.
Vernal (old)	7 ESE;riv 4 E	5200	37	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not Charted. → NEW OR REVISED DATA

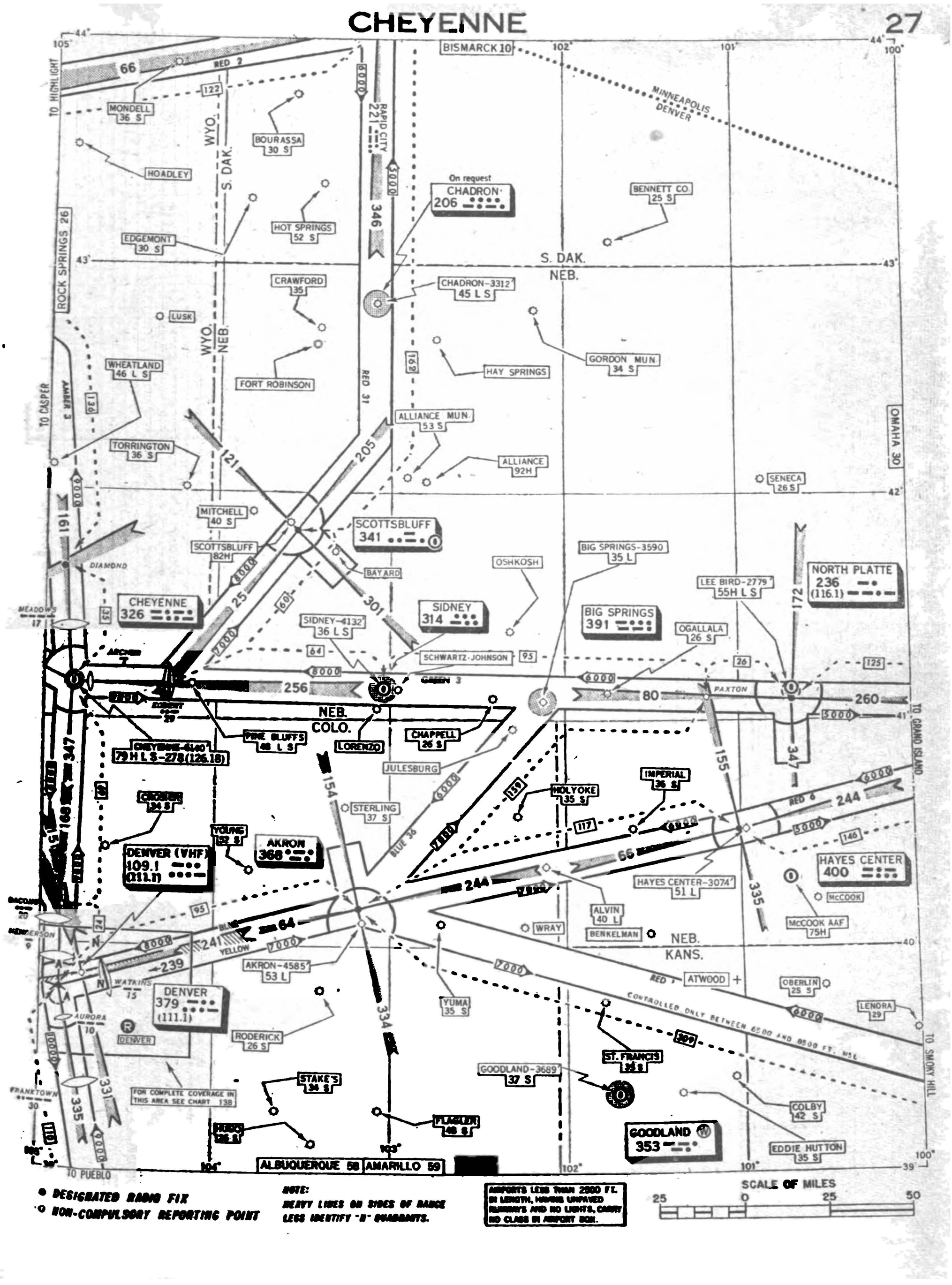
WYOMING

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Casper AAF(A)	9 NNW;hwy SW	5347	90h	INACTIVE
* Douglas Int,11B, CX-GT	1.5 SE;RR W	4865	40 R1 L3 S1	73 oct.
General Brees (Laramie)	4 W;riv SE	7270	63h R1 L5 S6	73,91,100 oct.
Lander	1.5 S;riv W	5550	40 S2	73 oct.
Medicine Bow,31, SL-OH	1.3 SE;RR N	6640	37 L3 S1	73 oct
Pinedale	5.5 SSE;hwy NE	7200	39 S2	73 oct.
Rawlins	2.3 NE;RR 1 S	6780	52 S4	80,91 oct.
Riverton	3.8 NW;hwy SW	5453	52 S4	Ltd 73 oct.
ROCK SPRINGS (new)	8.8 E;RR N	6751	67h R1 L5 S6	73,91 oct.
(P) Rock Springs (old)	3.8 NNW	6370	58	(NC)
* Sinclair Int,27, SL-OH	3.8 ENE;RR S	6570	50 R1 L3 S1	73,100 oct.
* Sussex Int,22A,CX-GT	2.5 NNE;riv 5 E	4800	40 L3	
Thermopolis	1 N; riv W	4400	33 S1	80 oct.
* Wamsutter Int,22, SL-OH	2.4 NNW;RR E	6812	50 L3	35' pole line S.
WARDWELL (Casper)	5 NNW;hwy E	5346	52h R1 L5 S6	73,91 oct.
(P) Worland (NC)	2.8 S;canal NW	4185	70 S1	80, 91 oct.

ROCK SPRINGS



CHEYENNE



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "R" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
25 0 25 50

RADIO

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AKRON (Int.)	368 (RN)	SBMRAZ-DT, 154°,3.6	(4)
AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DACONO FM	(. . -)	FM, 348°, 20	Denver
DENVER (Stapleton)	379(DV)(111.1)	SBMRAZ-VDTX;159°,2.5	(3);131.7
DENVER (9 mi ENE Stapleton)	109.1(DV) 111.1	VAR-VDT	(4);131.7
FRANKTOWN FM	(. . - - -)	FM, 155°, 29.6	Denver
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

KANSAS

GOODLAND	353 (GN)	HW-T	

NEBRASKA

BIG SPRING (Int.)	391 (BG)	BHT	(4)
CHADRON	206 (HC)	MHT	(4)
HAYES CENTER (Int.)	400 (KB)	SBMRAZ-DT,64°, 2.1	(4).
NORTH PLATTE (Lee Bird)	236(NQ)(116.1)	SBRAZ-VDT,352°,2.2	(4); 116.1
→ SCOTTSBLUFF	341 (TF)	SBMRLZ-DT, 301°, 3	(4)
SIDNEY (Int.)	314 (SD)	BH-DT, 350°,0	(4)

WYOMING

ARCHER LFM	(-)	LFM, 76°,5.6	Cheyenne
CHEYENNE	326 (CX)	SBRAZ-DT	(3)
Cheyenne Airport	278 (126.18)	C: 76°, 1	(4);116.1,131.9,126.18
EGBERT FM	(. . -)	FM, 76°, 29	Cheyenne
MEADOWS FM	(- - - -)	FM, 341°,16.8	Cheyenne

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.;Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Akron Int.,9,DV-GI	3.9 SE; RR N	4585	53 R1 L3	
★ Alvin Int.,15,DV-GI	3.5 NNE	3600	40 L3	Rds S, N.
Burlington (NC)	0.5 W	4160	32	Pole line S, N.
Crosier (Greeley)	3.5 E; RR N	4648	34 S6	73 oct.
Doughty's (Julesburg)	12 ESE	3600	18	PRIVATE,Use in emergency.
Flagler	0.8 S; RR N	4975	48 S1	73 oct. 20' pole line E.
Holyoke	1.8 ESE; RR NW	3720	35 S1	80 oct.
Hugo	1.5 E; RR S	5034	26 S1	80 oct.
Julesburg	2.8 SW; RR SE	3490	24 S4	73 oct.No sto.Pwr line S.
Roderick (Lindon)	4.3 N; riv E	4900	26 S1	73 oct.
Stake's Prairie(Limon)	2.2 ENE; RR S	5375	34 S4	73 oct.
(F) Sterling	2.8 W; RR S	4020	37 S6	73,80 oct.
Wray	1.2 NNW; RR S	3400	30 S1	Ltd 73 oct.
Young (Fort Morgan)	6 N; hwy E	4460	52 S4	73 oct.
Yuma	1.4 SSE; RR N	4150	35 S6	73 oct. Poles S, SW.

KANSAS

Atwood	2 N;hwy W	2900	26 S1	73 oct.Data unverified.
Colby	1.8 N; RR S	3150	42 S2	80 oct. Poles SW, W.
Eddie Hutton (Brewster)	1 SE; RR N	3420	35 S2	73 oct.
Goodland	2 NNE; hwy W	3689	37 S6	80,91 oct.Trees NW.
Lenora (NC)	1.2 NNW; hwy S	2325	29	
Oberlin	0.9 NW; RR SE	2684	25 S1	80 oct. Pole line SE, NE.
St. Francis	1 SSE; riv NW	3400	35 S2	80 oct.

NEBRASKA

Alliance	4.6 SE; RR N	3930	92h	
Municipal	2.8 SW; RR,hwy E	3965	53 S6	80 oct.
Bayard	1.3 ESW; RR N	3760	25 S2	No fuel. Poles N,E,NW,SE

NEBRASKA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Benkleman	1.2 NNE; RR SE	2990	28 S1	80 oct.
★ Big Springs Int,55,SL-OH	3 WNW; hwy N	3590	35 R1 L3	Pole line E.
Chadron,15,CX-HR	4.8 W; hwy S	3312	45 R1 L3 S4	73 oct.
Chappell	3 E; RR SW	3830	26 L1 S2	80 oct. Pole line W.
Crawford	3.8 NNW; hwy E	3676	35	Poles E, W.
(A) Ft. Robinson (A)	2 S; RR N	3920	18	
Gordon	1.3 E; RR N	3549	34 S4	73,80 oct. Poles N,S,W.
★ Hayes Center Int,21,DV-GI	3 ENE; rd S	3074	51 R1 L3	
Hay Springs	2.5 W; hwy E	3840	17 S2	80 oct. Pole line N.
Imperial	1 ESE; RR SW	3280	36 S4	80 oct.
(P) LEE BIRD (North Platte)	3.2 ESE; riv SW	2779	55h R1 L5 S6	73,80,91,100 oct.
Lorenzo	0.6 WNW; RR E	4400	17 S1	Ltd 73 oct. Cattle on fld.
McCook	2.2 E; RR,hwy S	2586	42 S4	80 oct. Windmill N.
(A) " AAP (A)	9 NNW; hwy E	2784	75h	INACTIVE.
Mitchell	1.6 S; riv N	3950	40 S6	73,80 oct. Trees, poles NW.
Modisett (Rushville)(NC)	2.4 NE; RR S	3475	30	Bldgs, pole line E.
Ogallala	2 W; RR S	3250	26 L1 S6	80 oct. Poles S, SE, SW.
Oshkosh	1.8 SE; riv S	3375	21 S1	Ltd 80 oct. Poles NW,NE.
Schwartz-Johnson (Sidney)	1.6 SSE; RR,hwy N	4120	32 S1	73,80,91 oct.
SCOTTSBLUFF	3.3 E; hwy S	3945	82h R1	
Seneca	2.2 NNW; riv S	3200	26 S1	Ltd 80 oct. Twr NNW.
★ Sidney Int.,50,SL-OH	3 W; RR N	4132	36 R1 L3 S1	Ltd 73,80 oct.
Valentine (NC)	1.5 SSE; hwy E	2579	18	Not maintained.Rough.PolesNE

SOUTH DAKOTA

Bennett Co. (Martin)	4.4 SSE; riv N	3325	30 S1	73 oct. Pole line sur fld.
Bourassa (Custer)	1 ESE; hwy N	5301	30 S2	73 oct. Poles W, NW.
Edgemont	1.1 SW	3575	30 S2	73 oct.
Hot Springs	5.5 SSE; riv N	3075	52 S2	73 oct.

WYOMING

(P) CHEYENNE	1 N; lakes WNW	6140	79h R2 L5 S6	73,80,91,100 oct. Poles W.
Hoadley (Dull Center)	9.4 NE	4176	24 S1	73,80 oct.
Mondell (New Castle)	6.2 WNW; RR N	4260	36 S2	73 oct.
(P) Pine Bluffs,44,SL-OH	4.2 WSW; RR S	5128	48 L3 S2	80 oct. Pole line N.
(P) Torrington	3.4 S; hwy W	4350	36 S1	73,91 oct. Pwr line S, W.
Wheatland,6,CX-GT	3.4 NNW; riv N	4648	46 L3 S6	80 oct.
Lusk	2.9 E;RR S	5000	47 S1	73 oct.Poles SE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii)(NC)-Not charted. → NEW OR REVISED DATA.

RADIO — IOWA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ATLANTIC	257 (IZ)	MRT	(4)
CALIFORNIA FM	(- - - -)	FM, 333°, 18	Omaha, Nebr.
GREENWOOD FM	(- -)	FM, 146°, 23.8	Omaha, Nebr.
HANCOCK FM	(-)	FM, 73°, 30.5	Omaha, Nebr.
SIOUX CITY	335 (YX)	SBMRLZ-DT	(3)
Sioux City Airport	396 (126.18)(118.3)	AC; 337°, 1.9	(4);131.9,126.18,118.3
SLOAN FM	(- -)	FM, 157°, 8.8	Sioux City
KANSAS			
MARSHALL (Fort Riley)(Army)	215 (DPY)	SBMRAZ	
Marshall Field	396 (126.18)	CA; 196°, 4	(3); 126.18
PHILLIP BILLARD (Topeka)	278	CI	(3) (sunrise-sunset)
TOPEKA	109.1 (PK)	VARW; 211°, 6	
MISSOURI			
TARKIO	281 (TK)	MRT	(4)
WALDO	108.7(LO)	VARW	
NEBRASKA			
GRAND ISLAND	260 (GI)(116.1)	SBMRLZ-VDT	(4); 116.1
→ Grand Island AAP	278 (126.18)	CA (ILS): 165°, 1.3	(3); 126.18 (7-23)
KEARNEY (Army)	536 (DKR)	HW	
Kearney AAP	396 (126.18)	CA; 130°, 5.3	(4); 126.18 (8-17)
LINCOLN	385 (HK)	SBMRLZ-DT; 170°, 2.6	(4)
MEAD FM	(- - -)	FM, 252°, 28.4	Omaha
OFFUTT (Omaha)	396 (126.18)	CA	(3); 126.18
OMAHA	320 (OH)	SBRAZ-DT	(3)
Omaha Airport	278 (126.18)	C (ILS); 146°,0.8	(4);116.1,131.9,126.18
OVERTON	278 (OV)	MRT	(4)
SOUTH DAKOTA			
SIOUX FALLS	245 (YL)	SBRAZ-DT, 93°, 2.3	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
OMAHA, NEBR.	110.3	335	135° Mag.	IM ·····(.06)	MM	OM --(4.90)
					OMK	OMK
GRAND ISLAND AAF, NEBR.	110.3	335	349° Mag.	IM (.08)	MM ·····(1.00)	OM --(4.50)
					MMK	OMK

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.. (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — IOWA

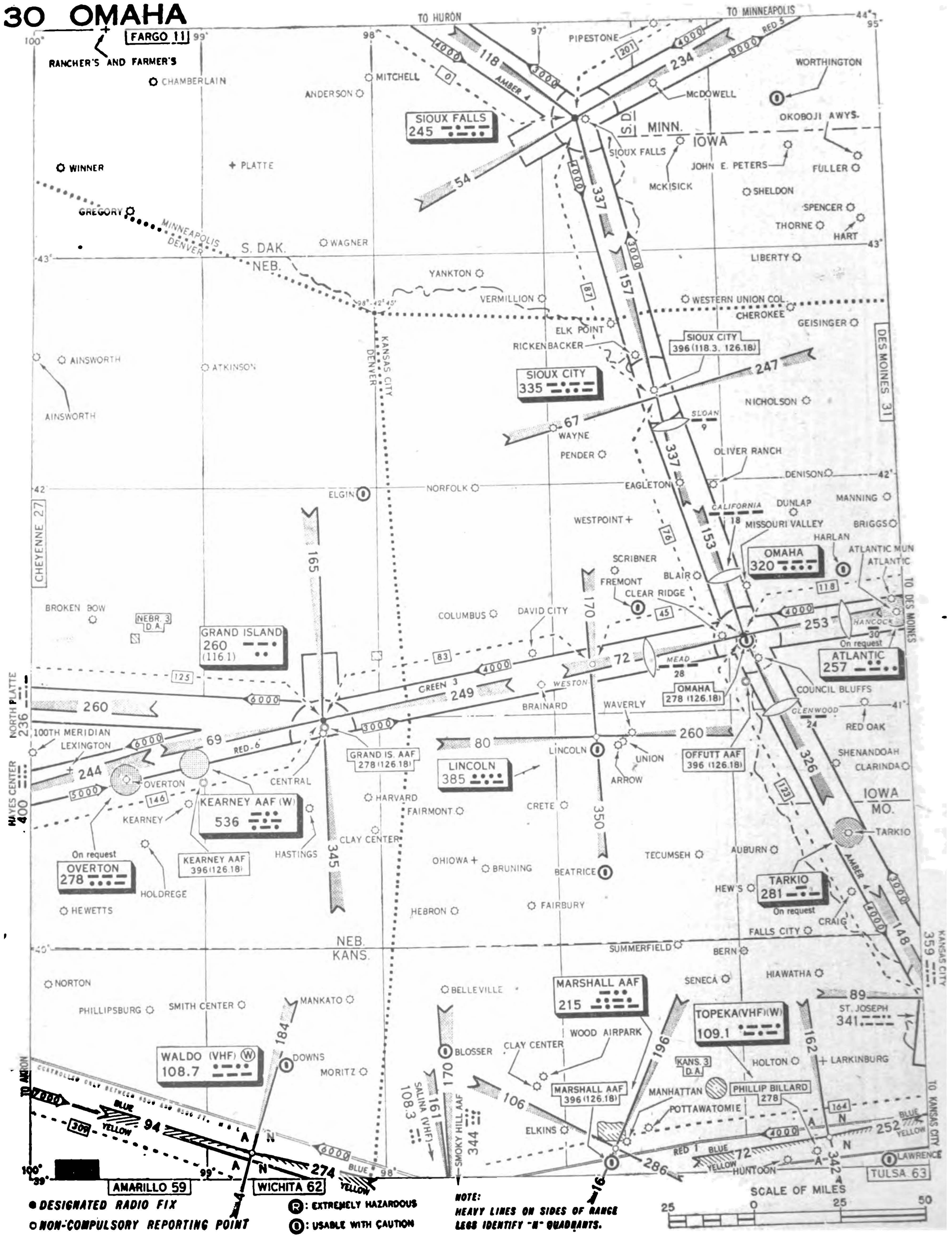
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Atlantic	4.6 NW; RR S	1353	21 S6	80,91 oct.
Municipal	1.9 W; RR E	1153	33 R1 L3	Beacon 1/4 mi W.
Briggs (Fiscus)	4.2 NE; RR E	1370	21 S2	80 oct. Trees N.
Clarinda	0.8 SE; RR W	1060	26 S4	80 oct.
Council Bluffs	3 SE; RR S	980	37 S6	80 oct. Bldgs SW.
Denison	2.4 WSW; riv SE	1200	20 S2	80 oct. Trees SSW.
Fuller (Milford)	0.7 NNW; hwy E	1440	36 S6	80 oct. Trees, poles E,W,S.
Geisinger (Storm Lake)	0.5 N; RR E	1240	13 S2	73 oct. Poles W,E.
Harlan	5 SSW; hwy E	1196	18 S2	73 oct.
Hart (Spencer)	1.6 S; hwy N	1100	26 S4	80 oct. Pole line NE,N.
John E. Peters (Ocheyedan)	1.5 N; hwy S	1425	24 S2	80 oct. 25' pole line S.
Liberty (Sutherland)	2.1 WSW; RR W	1465	23 S6	80 oct. 35' pole line E.
Manning	0.6 SW; RR W	1327	25 S2	73 oct.
McKisick (Rock Rapids)	3 N; riv W	1361	31 S4	80 oct. Trees W.
Missouri Valley	1.5 S; RR W	960	16 S2	80 oct.
Nicholson (Ida Grove)	1.9 WSW; RR N	1120	20 S1	80 oct.
Okoboji Airways(Spirit Lake)	2.8 SW; hwy E	1450	20 S2	80 oct. Poles NE.
Oliver Ranch (Onawa)	5 SE; hwy W	1040	26 S1	Ltd 80 oct. Trees sur fld.
Randolph (NC)	1.7 NNE; RR W	1050	20	
Red Oak	1.5 W; RR E	1044	25 S2	80 oct. Pole line N.
Sheldon	5 NNE; RR W	1444	33 S6	80 oct. Pole line S,W,SW,SE.
(A) SIOUX CITY	7 S; RR E	1097	69h R2 L5 S6	80,91 oct-91,100 oct.military acft.
(P) Spencer	2.9 WNW; RR S	1335	40 S6	80,91 oct.
Thorne (Moneta)	2.5 S	1410	25 S2	80 oct. Pole line, trees W.
(P) Western Union (Le Mars)	1.3 SW; RR SE	1190	30 S6	80 oct. Low obst.
Cherokee	1 S; FR W,S	1218	19 S1	80 oct.
KANSAS				
Belleville	1.8 WSW; hwy S	1520	24 S2	73 oct.
Bern	0.6 S; RR N	1300	26 S1	80 oct. Pwr line N.
Blosser (Concordia)	1 SSE; hwy W	1510	26 S2	80 oct.
Clay Center	1.5 W; hwy S	1200	30 S2	80 oct. Poles S, NW.
→ Downs	Adj SW; RR N, NW	1550	20 S2	80 oct. Data not verified.
Elkins (Wakefield)	1 SSE; riv NE	1170	13 S1	80 oct. Poles W.
Hiawatha	1.3 WSW; RR E	1110	24 S1	80 oct. Pwr line N.
Holton	0.9 E; RR N	1020	21	Trees N.
Huntoon (Topeka)	5.4 W; riv N	1000	18 S6	80 oct. Pwr line N.
Larkinburg	0.3 E of Holton	947	27 S2	80 oct.Hi-lines N. Data unverified.
Lawrence	2.5 NNE; hwy S	840	32 L3 S6	80 oct. No beacon.Poles W.Lgts prior req.
Manhattan	5.5 WSW; RR SE	1050	31 S6	80 oct.
Mankato	0.8 ESE; RR S	1780	22 S4	73 oct.
(A) Marshall (Ft. Riley)(A)	1.8 SE	1062	45h R2 L5 S6	73,91,100 oct, Ditch E,S.
Moritz (Beloit)	1.2 NW; RR S	1420	24 S2	73 oct. Trees E.

h-hard surfaced runways R-radio facilities. L-lighting facilities. S-servicing. (see page xiii(NC))-Not charted → NEW OR REVISED DATA

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Norton	0.7 NNW; hwy E	2365	52 S3	73 oct. Pole line E, S.
PHILLIP BILLARD (Topeka)	3.5 ENE; RR S	879	42h R1 L5 S6	80, 91 oct.
Phillipsburg (NC)	1.5 S; RR N	1882	33 S1	80 oct
Pottawatomie (Manhattan)	1.4 NE; RR SE	1100	20 S4	80 oct. Poles SE, NW, NE.
Seneca	0.5 W; RR S	1250	24	Poles N, S.
Smith Center	1 SSW; RR NW	1806	27 S1	80 oct.
Summerfield	0.3 SSE; RR W	1450	20 S2	80 oct. Pole line N, NW.
Wood Airpark (Clay Center)	3.5 N; hwy W	1260	15 S6	80 oct. No sto. Pole line W.
MINNESOTA				
McDowell (Luverne)	8 NW; hwy W	1440	25 S4	80 oct.
Pipestone	1 SE; RR E, W	1735	20 S4	Ltd 80 oct.
Worthington	1.4 N; lake SSW	1580	26 S1	80 oct.
MISSOURI				
Craig	0.6 NE; RR SW	875	25 S1	73 oct. Pole line WNW.
Tarkio 10, KC-OH	1.2 ENE; RR W	918	40 R1 L3 S4	80 oct. Trees N.
NEBRASKA				
Ainsworth	7 WNW; RR S	2580	73h	
Municipal	1 ENE; hwy S	2521	52 S5	80 oct. Pole line S.
Arrow (Lincoln)	4.8 NE; hwy E	1160	25 S6	73,80 oct.
Atkinson	14 SW; riv NE	2109	22	Trees S; pole line E,SE,N,NW.
Auburn	2.7 E; riv SW	960	29 S6	80 oct. Pole line N, NW, NE.
(P) Beatrice	3.5 N; hwy E	1260	38h S4	80 oct. Twrs S, SW.Rnwy data not ver.
Blair	3 NNW; RR E	1050	24 S6	80,91 oct. Windmill NW.
★ Brainard Int., 82, SL-OH	5.5 SW; hwy W	1640	31 L3	
Broken Bow	2 N	2400	30 S6	80 oct.
Bruning	7.7 E; RR N	1544	68h	
Central (Grand Island)	1.7 NE; RR S	1851	33 S6	73,80 oct. Pole lines W, S, N, E.
Clay Center	1.5 E; hwy N	1800	26 S2	73 oct.
Clear Ridge (Omaha)	5.2 NW; RR N	1230	24 S6	80 oct. Pole line E.
→ Columbus	1.3 NE; RR S	1445	26 S6	Pole line SSE, SSW.
→ Crete	1 S; RR NE	1368	24 L3 S2	73 oct. Lgts prior req.
David City	1.5 N;hwy W	1640	22 S2	80 oct. Windmill E.
Eagleton (Decatur)	1 S; riv NE	1100	20 S2	73 oct. Poles NE; trees NW.
Elgin	0.8 SW; RR E	1970	16 S6	80 oct. Bldgs SE, N.
Fairbury	2.5 NNE;RR, hwySE	1316	26 S6	80 oct. Pole line W, NW, S.
Fairmont (Geneva)	4.5 NE	1619	70h	
Falls City	2 SSW; riv N	910	14 S1	Ltd 80 oct. Pole line N, W.
(P) Fremont	1.4 WNW;RR's NE	1203	38h S4	80 oct. Pole line W,NE,E,SE,Twr SW.
(A) Grand Island AAF (A)	3.5 NE; RR W	1843	72h R3 L5 S6	73, 91, 100 oct, Twr SW.
Harvard	2.5 NE	1817	76h	
Hastings	1.5 NW; RRs N,S	1940	35 S6	73 oct.
Hebron	1 S; RR W	1458	26 S4	80 oct. S approach 6.1; SW 10:1.
Hewett's (Beaver City)	2.5 NNE; hwy S	2300	40 S1	73 oct. Pole NNW, SSW, bldg N.
Hew's (Humboldt)	4.2 NNE; RR S	1200	13	Pwr line E.
Holdrege	2 NNE; creek S	2324	26 S4	80 oct.
Kearney	4.5 S; riv N	2145	15 S1	80 oct. Trees N; pole line E.
(A) Kearney AAF (A)	4.5 ENE; RR S	2140	73h R2 L5 S6	73,91,100 oct. No sto. JP-1.
Lincoln	5.5 NW;RR NE	1190	71h R1 L5	Fld lgts prior req.
(P) Norfolk	3 SSW; RR W riv N	1572	58h S4	73 oct.
(A) Offutt (Omaha)(A)	10 S; RR W	1046	61h R1 L5 S4	91,100 oct. No sto.
Ohiowa	3 SW	1572	20	Fence sur fld. Data unverified.
OMAHA	3.5 NE; lake W	977	54h R3 L6 S6	73,∞,91,100 oct. No contact lgts.
100th Meridian (Cozad)	0.8 SW; RR N	2490	22 S1	80 oct. Pole line E.
★ Overton Int.,69, SL-OH	4.8 E; RR S	2300	40 R1 L3	Bldgs, trees NW; poles NE.
Pender	1 NE; RR SW	1400	22 S2	73 oct. Pole line S, SE.
Scribner	4.1 SSE; hwy N	1315	67h	
Steckley (Weeping Water)	3 S, RR, rd E	1260	26	Pole line N.
Tecumseh	1 W; RR NE	1115	26 S2	80 oct. Trees W. pole line N.
Union (Lincoln)	4.8 NNE; RR S	1140	18h L3 S6	80,91 oct. All lgts prior req.
(P) Wayne	1.8 E; RR N	1475	33 S4	80 oct. Pole line NW.
Waverly (Lincoln)	9 NE; RR SE	1180	20	Poles SE, SSW.
West Point	1.5 E;hwy W		16 S4	80 oct. Data unverified.
SOUTH DAKOTA				
Anderson (Mitchell)	2.7 W; RR N	1293	29 S6	80 oct. Poles sur fld.
Chamberlain	3.4 SE; hwy N	1689	26 S2	73,80 oct. Poles N, NW.
Elk Point	2.4 E; riv NE	1120	26 S2	80 oct. Poles N, NW.
Gregory	2.2 S; RR NE	2000	22 S2	73 oct. Pole line E, SE.
Mitchell	4 N; hwy E	1292	67h	
Rancher's & Farmer's(Reliance)	9 N; rd N, S		30 S1	73 oct.Data unverified.
Rickenbacker (Stevens)	1 N; riv E	1114	28 S6	80,91 oct.
SIOUX FALLS MUNICIPAL	2.5 NNW; RR E	1420	57h R1 L5 S3	80,91 oct. Contact lgts prior req.
Vermillion	3.8 WNW; RR NE	1140	25 S4	80 oct. Poles N
Wagner	1.3 S; RR N	1454	30 S1	73 oct. Poles E, NW.
Winner	1.3 NE; RR SW	2038	26 S6	80,91 oct.
(P) Yankton	2.3 N; hwy W	1400	37 S6	80 oct. Twr E.
Platte	1.4 NE	1612	24 S1	80 oct. Data not verified.
Lexington, N.D.	1 W; RR S	2400	32 S5	Data unverified.
→ Dunlap Ia.	0.5 WNW;RR SE	1160	30 S3	80 oct.Pole line NNE.
→ Shenandoah Ia.	2.8 W;RR SE	960	25 S2	80 oct.

30 OMAHA


FARGO 11
RANCHER'S AND FARMER'S
TO HURON
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PIPESTONE
WORTHINGTON
CHAMBERLAIN
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McDOWELL
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SIOUX FALLS
JOHN E. PETERS
FULLER
McKISICK
SHELDON
WINNER
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GREGORY
SPENCER
THORNE
HART
MINNEAPOLIS DENVER
S. DAK.
NEB.
WAGNER
LIBERTY
YANKTON
VERMILLION
WESTERN UNION COL.
CHEROKEE
GEISINGER
ELK POINT
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PENDER
OLIVER RANCH
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ELGIN
NORFOLK
EAGLETON
MANNING
CALIFORNIA
DUNLAP
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WESTPOINT
MISSOURI VALLEY
HARLAN
ATLANTIC MUN
ATLANTIC
CHEYENNE 27
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FREMONT
BLAIR
CLEAR RIDGE
OMAHA 320
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NEBR. 3 D.A.
COLUMBUS
DAVID CITY
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GRAND ISLAND 260 (116.1)
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WESTON
BRAINARD
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OMAHA 278 (126.18)
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GLENWOOD
RED OAK
NORTH PLATTE
100TH MERIDIAN
LEXINGTON
GRAND IS. AAF 278 (126.18)
LINCOLN 385
LINCOLN
UNION
ARROW
OFFUTT AAF 396 (126.18)
SHENANDOAH
CLARINDA
HAYES CENTER
OVERTON
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KEARNEY AAF (W) 536
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HARVARD
FAIRMONT
CRETE
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TARKIO
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OVERTON 278
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CLAY CENTER
OHIOWA
BRUNING
BEATRICE
TECUMSEH
AUBURN
HOLDREGE
HEWETTS
HEBRON
FAIRBURY
HEWINS
TARKIO 281
On request
CRAIG
NEB.
KANS.
FALLS CITY
SUMMERFIELD
BERN
NORTON
PHILLIPSBURG
SMITH CENTER
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MARSHALL AAF 215
SENECA
HIAWATHA
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DOWNS
MORITZ
BLOSSER
CLAY CENTER
KANS. 3 D.A.
HOLTON
LARKINBURG
SALINA (VHF) 108.3
SMOKY HILL AAF 344
MARSHALL AAF 396 (126.18)
MANHATTAN
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POTTAWATOMIE
ELKINS
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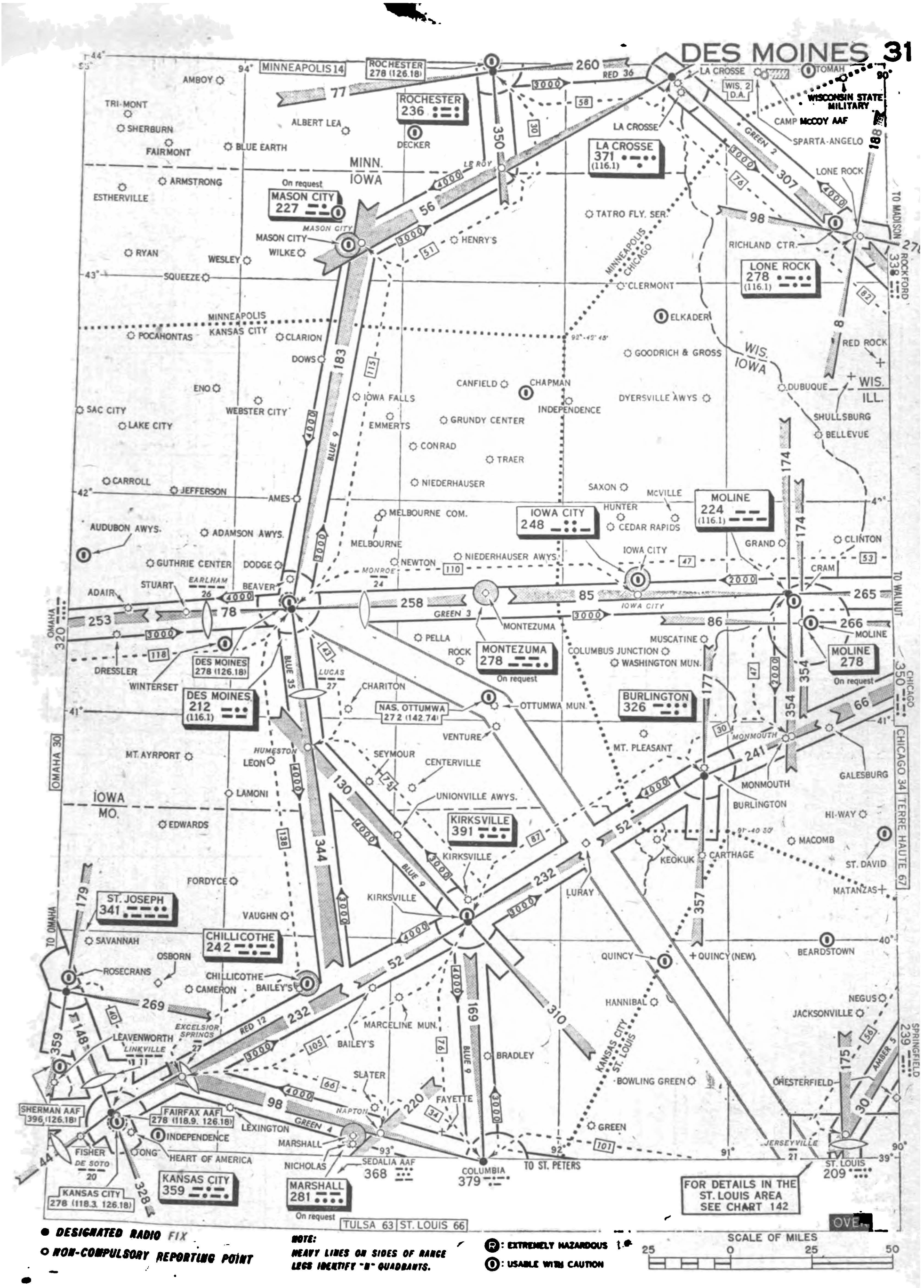
LAWRENCE
TULSA 63
AMARILLO 59
WICHITA 62
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.


DES MOINES 31
MINNEAPOLIS 14
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LA CROSSE
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CAMP McCOY AAF
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ELKADER
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WIS. IOWA
DOWS
ENO
CANFIELD
CHAPMAN
DUBUQUE
WIS. ILL.
IOWA FALLS
DYERSVILLE AWYS
SAC CITY
WEBSTER CITY
INDEPENDENCE
LAKE CITY
EMMERTS
GRUNDY CENTER
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TRAER
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CLINTON
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ADAIR
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WASHINGTON MUN.
MOLINE 278
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MONTEZUMA 278
On request
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DES MOINES 278 (126.18)
DES MOINES 212 (116.1)
CHARITON
NAS. OTTUMWA 272 (142.74)
OTTUMWA MUN.
BURLINGTON 326
VENTURE
MT. PLEASANT
MT. AYRPORT
HUMESTON
LEON
SEYMOUR
CENTERVILLE
MONMOUTH
GALESBURG
IOWA
MO.
LAMONI
UNIONVILLE AWYS.
MONMOUTH
BURLINGTON
HI-WAY
EDWARDS
KIRKSVILLE 391
KIRKSVILLE
KEOKUK
CARTHAGE
MACOMB
ST. DAVID
MATANZAS
FORDYCE
VAUGHN
KIRKSVILLE
LURAY
ST. JOSEPH 341
CHILLICOTHE 242
SAVANNAH
OSBORN
ROSECRANS
CHILLICOTHE
CAMERON
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QUINCY
+QUINCY (NEW)
BEARDSTOWN
HANNIBAL
NEGUS
JACKSONVILLE
LEAVENWORTH
LINKVILLE
EXCELSIOR SPRINGS
MARCELINE MUN.
BAILEY'S
BRADLEY
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SPRINGFIELD 239
SHERMAN AAF 396 (126.18)
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HEART OF AMERICA
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TO ST. PETERS
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KANSAS CITY 278 (118.3, 126.18)
MARSHALL 281
On request
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
TULSA 63
ST. LOUIS 66
OMAHA 320
OMAHA 30
TO OMAHA
CHICAGO 350
CHICAGO 34 TERRE HAUTE 67
TO WALNUT
OVER
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

DES MOINES

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.GUARD.HRS. OF OPER.,REMARKS
JERSEYVILLE FM	(-)	FM, 355°,21	St. Louis, Mo.
MOLINE	224(MO)(116.1)	SBRAZ-VDT,142°,12	(4), 116.1
Moline Airport	278	ML, 86°, 2.3	3105 (on req)
IOWA			
BURLINGTON	326 (BN)	SBRAZ-DT,357°,1.8	(4)
DES MOINES	212 (DM)(116.1)	SBRAZ-VDT	(3), 116.1
Des Moines Arpt.	278 (126.18)	C, 344°, 2	(4),116.1,131.9,126.18
EARLHAM FM	(- - - -)	FM, 258°, 26.3	Des Moines
IOWA CITY	248 (IX)	BHT	(4)
LUCAS FM	(- - -)	FM, 164°, 27.2	Des Moines
MASON CITY	227 (NM)	MHT	(4) oper cont.
MONROE FM	(- -)	FM, 78°, 23.5	Des Moines
MONTEZUMA(Int)	278 (MZ)	MHT	(4)
OTTUMWA NAS	272 (142.74)	CN	(3), 142.74
KANSAS			
FAIRFAX (Kansas City)	278 (126.18) (116.9)	C	(4),126.18,131.9,118.9
SHERMAN (Ft. Leavenworth)	396 (126.18)	CA	(3),126.18 cont.ex-cept Sun.(23-7)
MINNESOTA			
ROCHESTER	236 (RR)	BMRLZ-DT,350°,2.5	(3)
Rochester Airport	278 (126.18)	C	(4),116.1,126.18,140.1
MISSOURI			
CHILLICOTHE(Int)	242 (CK)	MHT	(4)
EXCELSIOR SPRGS FM	(-)	FM, 52°, 27	Kansas City
KANSAS CITY	359 (KC)	SBRAZ-DTX	(3)
Kansas City Arpt	278 (126.18) (116.3)	AC (ILS),148°,3	(4), 116.1,131.9,126.18, 118.3
KIRKSVILLE	391 (KR)	BMRLZ-DT,333°,0.9	(4)
LINKVILLE FM	(- - - -)	FM, 328°, 11.4	Kansas City
MARSHALL (Int)	281 (MH)	MHT	(4)
ST. JOSEPH (Rose-crans)	341 (ZJ)	SBMRLZ-DT,359°, 3.7	(4)
WISCONSIN			
LA CROSSE(Int)	371(LE)(116.1)	SBRAZ-VDT,127°,1.8	(4), 116.1
LONE ROCK (Int.)	278(LK)(116.1)	BMLZ-VDT,98°, 0	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mc, Compass Locators in kc)

LOCATION	LOCALIZER C. F.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KANSAS CITY, MO.	109.9	333.8	171° Mag	IM ·····(.01)	MM ONM 221----(2.6)
					OM -- (4.65)
					ONM 248---(11.0)

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voices are Available.

AIRPORTS

ILLINOIS

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Beardstown	1.5 SE; RR N,W		18 S2	80 oct. Data unverified.
Carthage	1.5 SSW,RR E	665	19	Pole line NE, E.
★ Chesterfield Int. 4, LS-CG	3 ENE,hwy N	612	26 L3	
Galesburg	1.7 NW,RR SSW	788	27h L3 S6	80 oct.Fld lgts prior req.Trees SW, NE.
Hi-Way(Piatt)	1.3 NW,RR E	665	20 S1	80 oct.35' poleline S,E.
Jacksonville	3.9 S,hwy E	650	19 S4	80 oct.Trees SW.
Macomb	2.4 E,hwy E	695	23 S6	73,80 oct. No sto.
Matanzas(Havana)	4 S,riv W	480	24 S2	80 oct.Data not verif.
MOLINE	4 S,hwy E	590	40h R1 L3 S6	73,80,91,100 oct.
Monmouth	1.5 NNE,rd E	715	31 L1 S6	80 oct.Poleline E,W,S.
Negus(Alexander)	2.8 WNW,RR SE	645	22	PRIVATE.
Quincy	2.8 SE,hwy E	650	26 S4	80 oct.
St. David	1.5 SW,hwy N	628	22 S2	80 oct.Lgt acft only.

IOWA

Adair	1.5 SSE,RR NW	1100	18 S1	Ltd 73 oct.Trees S.
Adamson Airways	4.8 WSW,hwy N	1000	17 S6	80 oct. (Perry)
Ames	2.5 SSW,RR NW	920	28 S6	80 oct.Lgt acft only.
Armstrong	3.2 NW,hwy S	1250	22 S1	Ltd 80 oct.Trees E.
Audubon Arwys	1 SSE,RR W	1300	15 S1	80 oct. (Audubon)
Beaver	3.4 NW	900	25 S6	80 oct. (Des Moines)

A-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC (not charted). → NEW OR REVISED DATA.

IOWA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bellevue	3 N,RR W	652	19 S1	80 oct.
(P)BURLINGTON	1.7 SSW,hwy E	698	54h R1 L5 S6	80,91,100 oct.
Canfield(Waterloo)	3.5 NW,RR NE	800	32 S6	87 oct.Pole line N.
Carroll	4.2 ESE,RR N	1196	34 S2	80 oct.
(P)Cedar Rapids	6.7 SSW,RR E	860	55h L5 S1	80, 91 oct.
Centerville	3.5 SSW, RR N	1017	25 S2	80 oct.Use strips only.
Chapman(Waterloo)	5 E,RR NW	870	33 S6	80 oct.Poleline S.
Chariton C.A.P.	2.3 NNE,RR SE	1050	16 S1	80 oct.
Clarion	1.1 NW	1162	27 S6	80 oct.
Clermont	0.8 S,riv W	800	21 S6	80 oct.Poleline SE,NE.
Clinton	6.2 WSW,RR S	700	27 S6	80 oct. No sto.
Columbus Jct.	3 N,RR E	580	28 S2	80 oct.Poleline N,E,NE
Conrad	3 WNW,RR S	1000	23 S2	80 oct.27' bldg E.
Cram (Davenport)	2.5 NW,RR SW	646	21 S6	80,91,100 oct.
Creston Arwys	1.6 NE, RR W	1320		UNUSABLE (NC)
(A)DES MOINES	4.5 SSW,RR W	950	52h R2 L5 S4	80,91 oct.
Dodge (Grimes)	3.5 E,hwy,RR E	835	27 S6	80 oct.
Dows	1.5 SSE,RR NE	1144	26 S2	80 oct.
Dressler(Anita)	7 SSE,rd W	1250	17 S2	80 oct.Trees S.
Dubuque	1.9 NE,riv E	602	27 S6	80 oct.Poles SE,NW.
Dyersv'l Arwys (Dyersville)	0.8 S, RR NE	940	16 S1	80 oct.Pwrlines NW,NE
Elliot Fly.Svc.	Adj S	550	Unl. S1	80 oct. (Davenport) (NC)
Emmerts(Eldora)	2.8 NE,lake SW	1000	32 S6	80 oct. Poles NW,SE
Eno(Ft.Dodge)	2.5 E,hwy W	1126	27 S6	91 oct.
(P)Estherville	3.5 E,hwy S	1298	35 S6	80 oct.Poles SE,S,SW
Goodrich&Gross (Strawberry Pt.)	3.5 W,RR NE	1200	19 S1	Ltd 80 oct.
Grand Mound	1.2 SW,RR N	770	20 S2	80 oct. (Grand)
Grundy Center	1.3 ENE,RR S	990	18 S1	80 oct.Pole line S.
Guthrie Center	0.5 NW,riv E	1074	21 S1	80 oct.
Henry's(Floyd)	5 NNE,RR W	1110	14 S1	80 oct.Poles ENE.Steep sloped strips.
(P)Hunter (Cedar Rapids)	3 S, riv N	732	27 L3 S6	80,91 oct.Fld lgts prior req. Poles S, E.
(P)IOWA CITY	1.7 SW, riv E	650	43h R1 L1 S6	80, 91 oct. No sto.
Iowa Falls	4.1 S, RR E	1140	24 S2	80 oct.
Jefferson	0.8 NNW,RR S	1052	23 S6	80 oct.No sto.Poleline
Keokuk	4.6 NNW,riv E	670	27 S1	Ltd 80 oct. N.
Lake City	3.5 NNE, RR S	1200	26 S1	80 oct.
★ Lamoni Int,10, KC-MP	3 WNW, RR NE	1163	37 L3 S2	73 oct.
Leon	4.1 N, RR SE	1050	20 S2	80 oct.
McVille (Mechanicsv'l)	3.2 WNW,RR S	850	30 S6	80 oct. Poles S,W.
MASON CITY	7 W,hwy S	1215	56h R1 L5 S6	80,91,100 oct. Poles SE
Melbourne	1.5 SW	1000	20 S1	80 oct.Poles N.
Melbourne, com.	0.3 S,RR E	1000	21 S2	80 oct. Pole line E.
★Montezuma Int, 17, OH-CG	3 E,hwy N	953	32 R1 L3	Poles, trees SW. Pwr line N.
Mt.Ayrport (Mt. Ayr)	6.6 N, RR N	1100	21 S1	Ltd 80 oct.Poles N,NE
Mt. Pleasant	2.6 ESE,RR N	727	19 S2	80 oct.
Muscatine	6 SW,RR SE	546	36 L3 S6	80 oct.
Newton	1.5 ENE,hwy S	950	19 S1	80 oct.
Niederhauser	2.3 N, hwy E	790	30 S6	80 oct.(Marshalltown)
Niederhauser Arwys(Grinnell)	4.5 E	1000	26 S2	80 oct.
Ottumwa	3.6 N,hwy W,S	830	32 S6	80, 91 oct.
(N)Ottumwa NAS	6.4 NNW	841	52h R1 L5 S6	73, 91 oct. (N)
Pella	3.5 SE,RR N	877	24 S6	80 oct.
Pocahontas	0.8 E	1216	25	Pole line SW.
Ryan (Emmetsb'g)	1.3 W,RR N	1225	18 S2	80 oct.Trees NW.
Sac City	3 SSE,riv W	1160	19 S2	80 oct.
Saxon(Ced.Rpds)	7 NE,hwy S	880	31 S6	80 oct.Trees E,SE.
Seymour	2 NNW,RR S	1060	24 S1	80 oct. Hedge S.
Squeeze(Algona)	5 S,riv S	1201	26 S2	80 oct.Pole line NW,W
★ Stuart Int,8,OH-CG	3.5 SE,rd E	1189	31 L3	Pole line NE,E.
Tatro Fly.Svc.	2.6 NW,riv W	918	26 S2	80 oct. (Decorah)
Traer	1 ENE,RR SW	895	18 S2	80 oct.Pole line E.
Venture(Ottumwa)	2.8 SSE,RR W	800	13 S6	80 oct.Poleline N,W,NE
Washington	1.5 SSE,RR NE	769	25 S6	80 oct.
Webster City	3.3 SW,riv E	1100	26 S4	80 oct. No sto.
Wesley	1.5 E,RR N	1250	31 S1	80 oct. Poleline N,S.

KANSAS

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(A)Fairfax (Kans.C.)	3 [illegible],RR E	742	65h R1 L5S4	91, 100 oct. (A)
Fisher	1.5 SW,RR N	770	26 S6	80 oct.(Edwardsville)
Leavenworth Le-compton	3.6 WSW,RR E	1125	14 S4	80 oct.No sto.Trees, bldg S.
(A)Sherman(Ft. Leavenworth)	1 SSE,RR W	771	60 R1 L5 S4	73, 91, 100 oct. (A)
MINNESOTA				
(P)Albert Lea	2.3 N, RR E	1255	32 S6	80 oct.No sto.Poleline
Amboy	1 NNE, RR W	1000	24 S1	80 oct. N.
Blue Earth	3 S,RR E	1111	23 S1	80 oct.Poleline E.
Dreckert(Austin)	1.7 E,hwy N	1224	26 S4	73 oct.Obsts sur fld.
Fairmont	3.1 S,hwy W	1190	24 S1	80 oct.Poleline W.
ROCHESTER	1.7 SSE,RR W	1040	43h (2) L4 S6	80,91 oct.Poleline E,N
Sherburn	2 WNW,RR S,E	1300	21 S2	80 oct.Pwr line ESE.
Tri-Mont	0.9 S,RR W,E	1250	22	(Triumph)
MISSOURI				
Bailey's (Grooms-field)	2 WSW,RR N	800	20 S2	80 oct.Pwr line SE.
Bailey's (Chillicothe)	2 SSE,RR W	675	27 S6	80 oct.Poles S.
Bowling Green	1.6 NW,RR E	882	25 S2	80 oct.Poles S,pwrline
(P)Bradley(Moberly)	3 NNE,hwy W	865	37h S6	80 oct.Obsts. SE.
Cameron	2 E,RR NW	1050	21 S4	73 oct.Pwr line N.
★ Chillicothe Int, 7, KC-CG	3 E	781	25h R1 L3	Pole line S,trees SW.
Edwards	1.2 ENE,RR W	920	17 S1	Ltd 80 oct.(Grant City)
Fayette	1.5 S	660	28 S2	80 oct.Data unverified.
Fordyce(Bethany)	4.8 ESE,RR WNW	1050	22 S1	80 oct.
Green(Mexico)	4.3 ESE,RR S	815	36 S6	80 oct.Trees SE.
Hannibal	4.3 WNW,hwy N	735	28 S6	80 oct.Poleline SW.
Heart of America (Kansas City)	4 E,RR E	759	23 S6	80 oct.Poles,trees S.
Independence	5.8 ESE,RR S	825	23 S6	80 oct.Poles S.
KANSAS CITY	2.5 NW,riv W,S	739	52h R3 L6 S6	80,91,100 oct.Poles E.
Kirksville Arpk	Adj SE	927	26 S2	80 oct. dike W.
" 12, KC-CG	7 SE,hwy NE	970	39h R1 L3 S6	91, 80 oct.
Lexington	3 WNW,RR NW	650	33 S6	73 oct.Poleline S,W,SW
★ Luray Int,16,	1.9 ESE,hwy N	727	26 L3	KC-CG
Marceline	1.5 N,RR SE	855	20	Pole line NNE.
★ Marshall Int,7, KC-LS	1.8 S,hwy E	800	39 R1 L3 S2	80 oct.Silo NE corner
Maryville (NC)	2.2 WNW,RR N	1154	25	
Nicholas(Marshall)	3.8 S,hwy W	770	26 S4	80 oct.Pwr line S.
★ Osborn Int,4,	1.5 NW, hwy S	1046	32 L3	KC-MP
Rosecrans	4 NW,riv S	821	60h R1 L5 S2	(St. Joseph)80,91 oct. Fld
Savannah	1.3 E, RR W	1025	13 S1	Ltd 80 oct. lgts on req.
Slater	0.8 NW,hwy SE	850	26	Pole line adj N.
Unionville Arwys	1.5 ESE,hwy NE	1100	24 S2	80 oct.Pole line N.
Vaughn(Trenton)	1.2 NNW,RR E	790	26 S1	Ltd 80 oct.

WISCONSIN

(A)Camp McCoy(A)	2.6 E Sparta	830	38h	RR W
(P)La Crosse	5 NNW,bet rivs	653	53h L5 S4	80, 91 oct.
★ " Int,23A,	8 NNW,RR NE	667	37 R1 L3	Pole E.(CG-Twin Cys)
★ Lone Rock Int, 15,CG-Twin Cys	2 N,rd W,N	714	39 R1 L3 S2	Ltd 80 oct.Poleline NE
Red Rock (Darlington)	5 SE,RR E		12 S1	80 oct.Data not verif.
Richland Center	6 SSE,hwy W		23 S1	80 oct.Trees E,S.Data not verified.
Shullsburg	0.5 S	1000	18 S1	80 oct.Trees SW.Data not verified.
Sparta-Angelo	2.2 NE,RR E	800	25 S1	80 oct. Poles sur fld.
Tomah	1 E,RR N	970	18 S1	73 oct. 180' hill E.
(P)Wisconsin State Military	1 N, RR SW	915	31h	(Camp Douglas)
→ Elkader Ia.	1.1 ESE,RR S	915	17 S2	80 oct.Pole line NW;
→ Independence Ia.	4.1 W,RR E	990	23 S2	80 oct.Poles N.
→ Rock (Oskaloosa)Ia.	2 SSE,RR NE	850	20 S2	80 oct Trees sur fld.
→ Wilkie (Garner)Ia.	1.8 NW,RR S	1230	26 S2	80 oct.Poles NW,SW.
→ Winterset Ia.	2 W,RR E	1130	20 S4	80 oct.
→ Quincy,new(Ill.)	9.5 E	760	54h	Data unverified.

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
BRADFORD (Int.)	382 (MQ)	MHT	(4)
CHICAGO	350 (CG)(116.1)	SBRAZ-VDTX,152°,2.2	(3),116.1
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
GLENVIEW (Navy) Glenview NAS	269 (NBU) 236 (142.74) (140.58)	MLZ-DT CN, 140°, 3	(3); 140.58,142.74 (3);142.74,140.58;3117.5 on req.
HARVEY (Rubinkam)	385 (GH)	MLWZ, 90°, 2.2	
JOLIET	257 (JO)(116.1)	SERAZ-VDT,126°,3.6	(4); 116.1
NEWARK FM	(- - -)	FM, 246°, 49	Chicago
PEORIA	356 (PI)	SBMRAZ-DT,178°,2.3	(4)
ROCKFORD (Machesney)	338 (RD)(116.1)	SBRAZ-VDT, 45°,1.8	(4); 116.1

INDIANA

LOWELL FM	(. . - -)	FM, 152°, 40	Chicago
McCOOL (Int.)	359 (ML)(116.1)	MHVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

WISCONSIN

GENERAL MITCHELL (Milwaukee)	278	C	(4)
GENESEE FM	(- - -)	FM, 279°, 25.3	Milwaukee
KENOSHA FM	(- -)	FM, 178°, 24.7	Milwaukee
MADISON (Truax)	400 (MA)(116.1)	BMLZ-VDT 314°,2.6	(4) ;116.1
MILWAUKEE (Gen'l Mitchell)	242(MK)(116.1)	SBRAZ-VDT,352°,2.4	(3); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertus (Freeport)	3.8 SE;RR S,W	740	33 S4	73 oct. Tank S.
Beloit-S.Beloit(S.Beloit)	1 S; RR E	772	35 S6	80 oct.Use strips.Pole line W.
★ Bradford Int,29,KC-CG	4.5 NNE	795	26 R1 L3 S1	80 oct. Pole line SW, NE.
Dixon	1.9 ESE;RR S	786	26 L3 S6	73 oct.No bndry lgts.Poles S,N.
Evergreen (Warren)	1.4 SSE;hwy S	1000	26 S1	80 oct. Trees W.
Fitzgerald (Mendota)	1.5 NW;lake E	800	22 S6	80 oct.Trees E.
(N) Glenview NAS (N)	1.6 NW;RR W,E	654	63h R2 L3 S6	91,100 oct. No sto. NAFC
Grayslake	1.1 ENE;rd W	791	26	Trees W, S, E.
Interstate (De Kalb)	1.8 E;RR W	900	42h	
Kane County (Elgin)	7 WNW;hwy E	910	22 S4	80 oct.Pole line E.
Kankakee	3.2 WSW;hwy E	625	26 S4	73,80 oct.Use strips only.Ditch N.
Kiswaukee(Sycamore)	2.1 SW;rd E	830	18	(NC)
La Salle Co.(Utica)	1.8 NNW;hwy S	619	12 S2	80 oct. Poles NE.
Machesney,7,CG-Twin Cities (Rockford)	6 NNE;riv W	735	29 R1 L4 S6	73,80 oct. Pole line E.
Momence	3.5 SW;riv NW	645	23 S2	80 oct.Trees N,NW,NE.Riv N.
Morris	4.5 N;hwy W	590	21 S2	73 oct.Poles N,NNE.
Mt.Hawley (Peoria)	6.4 N;rds E,S	700	28 S6	80 oct.Pole line S, E.
Pal-Waukee(Glenview)	5.5 WNW;RR S	642	26 L3 S6	80,91 oct. Pole line N
Pecatonica	1 N;hwy E	750	24 S1	73 oct.Poles E.
PEORIA	4.8 WSW;rd E	659	44h R1 L1 S6	80,91 oct.Trees W,bldgs NE.
→ Phil-Larry (Roanoke)	4 W	747	23 S6	80 oct. Data not verified.
Powell Bros.(Sheldon)	2.2 S;hwy NE	650	20 S2	80 oct.
Sky Harbor (Northbrook)	1.6 NW;RR SE	680	26 S6	80, 91 oct.
Sterling	1.4 NW;hwy E	645	25 L3 S4	80 oct.No ben.Lgts prior req.
Stockton	2.3 SSE	940	18 S1	80 oct.Data not verified.
Streator Air Service	2 ENE;hwy S	650	26 S4	80 oct.Pole line E.
★ Van Orin Int,34,OH-CG	1 ENE;RR S	828	33 L3	Poles W.
Vogel (La Salle)	6.5 NNW;RR E	664	26 S2	80,90 oct.Soft when wet.Poles N,W.
Waukegan	3.5 NW;hwy E	600	22 L1 S5	80 oct. Bldg SE.
Will Co. (Steger)	0.5 S;RR W	740	15 S6	Pole line S. No sto.or fuel.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii) (NC)-Not charted. → NEW OR REVISED DATA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Princeton	3 N; creek N		18 S2	80 oct.Data unverified.

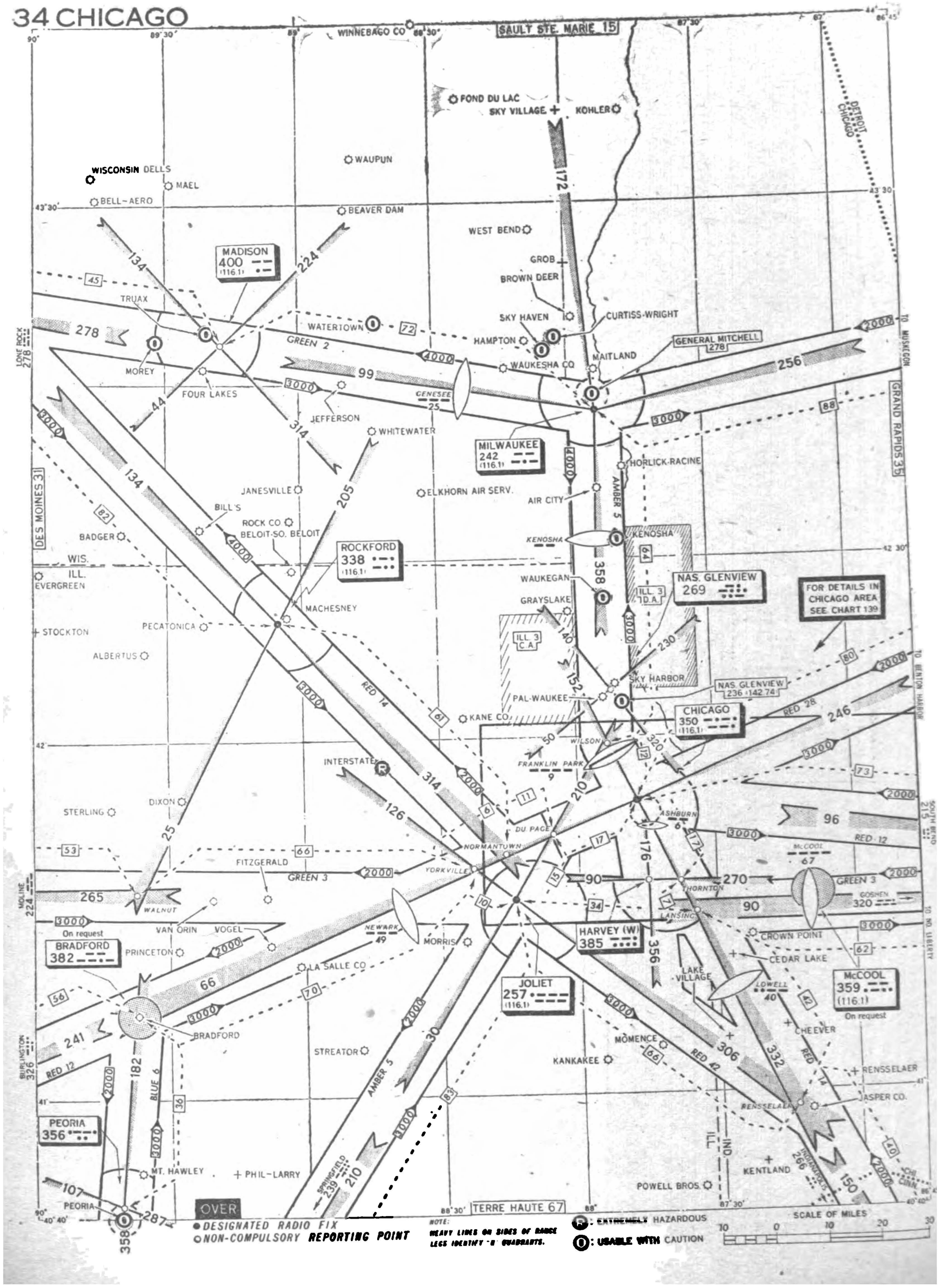
INDIANA

Cedar Lake	1.5 NNW;lake E	751	28 S4	73,80 oct.Data not verified.
Crown Point	1 N		30 S1	80 oct.Pole line E.Data not verified.
Jasper Co.(Rensselaer)	1.5 WNW;RR NE	676	28 L3	Pole line S; twr SW.
Lake Village	1 NW;hwy S	650	22 S2	80 oct. Data not verified.

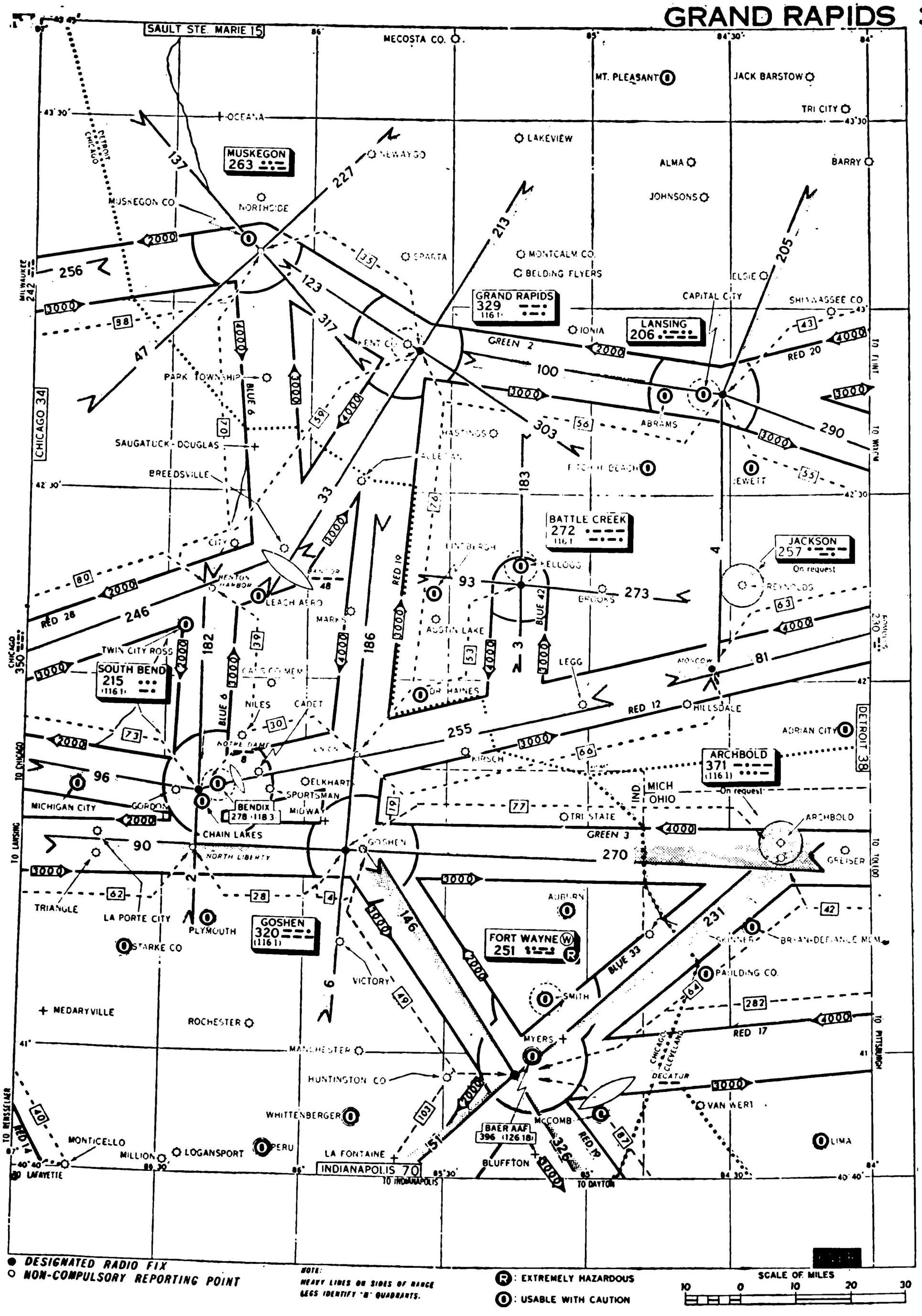
WISCONSIN

Air City(Sturtevant)	0.6 SE;RR E	633	25 S4	80 oct. Pole line NW.
Badger (Monroe)	1.8 SW;RR N	1080	20 S1	80 oct.
Beaver Dam Inc.	2 N;lake W	914	15 S1	80 oct.
Bell-Aero Service	4 NNW;hwy W	980	21 S4	80 oct. (Baraboo)
Brown Deer(Milwaukee)	10 NNW;RR E	681	20 L S4	80 oct.No sto.Pole lines N.
→ Curtis-Wright	9 NW;riv SW	750	30 S6	80 oct. (Milwaukee) Rnwy info unver
Elkhorn Air Service	1.5 N;hwy E	1000	13 S1	80 oct.Rough and rolling.
Fond du Lac	2.6 ENE	769	26 S2	80 oct. 50' hi-line N.Lake WNW.
GENERAL MITCHELL (Milwaukee)	6 S;RR E	675	50h R2 L4 S6	73-100 oct.
Hampton (Marcy)	1.6 W;RR N	860	17	Poles S, trees N.
Horlick-Racine(Racine)	2 N;RRs E,W	665	25h L1 S6	80,91 oct. Trees N, SE.
→ Janesville	1.8 NNE;RRs NW	880	26 S4	80,91 oct. No sto. 51' twr SE.
Kenosha	2 S;RR W	623	29 L S6	80, 91 oct.Flood lgts.
(P) Kohler	1 N;hwy S	647	30 L1 S6	80 oct.Obsts sur fld.
Mael (Portage)	1.6 NW;lake SE	820	26 S6	80 oct.Obsts sur fld.
Maitland(Milwaukee)	3 ESE;hwy W	590	25 S6	80,91 oct. Stack S.
Morey (Madison)	9 WNW;hwy E	928	34 S6	80 oct.30' pole line S.
(P) Rock Co.(Janesville)	4.5 SSW;RR W	807	54h L5 S2	80, 91 oct.
Skyhaven (Milwaukee)	10.5 WNW	800	26 S1	80 oct.Pole line N,trees E, S.
(A) TRUAX(Madison)	5 NE;hwy E	858	60h R1 L5 S2	73,91,100 oct Fld lgts & svcg not avail.
Watertown	1.2 S;riv W	820	24 S2	80 oct. Bldg W. 0030-0730
Waukesha County	1.8 N;rd jct NW	904	31 S6	80 oct. Pole line S.
West Bend	2.5 S;riv S	880	20 L3 S6	80 oct. Poles sur fld.
(P) Winnebago Co.(Oshkosh)	2 SSW;RR NE	776	50h L1 S4	80 oct.No sto.Pole line NE,N,W.Rnwy unver.
Wisconsin Dells-Lake Delton(Lake Delton)	0.8 SE;riv NW	910	24 S6	80 oct.2 hills SW;trees,pole line NW,NE, and SE.
Waupun (Wisc.)	3.5 W;RR E	912	14 S1	80 oct.
Bill's (Broadhead)(Wisc.)	1.8 S;riv S,W	780	23 S1	80 oct.
Jefferson (Wisc.)	1.7 WSW;RR E	800	13	Pole line N.
Whitewater (Wisc.)	2 N;RR S	810	20 S1	80 oct.Poleline E,ENE,ESE;ridge E.
(P) Four Lakes (Madison)	3 SSE;lake N	881	30 S6	80 oct.Obst lgts prior req. (Wisc.)
→ Grob (Cedarburg)(Wisc.)	2 N	875	24 S4	Data unverified.
Cheever (Demotte)(Ind.)	3 W		29 S1	80 oct. Data unverified.
Kentland (Ind.)	6 ENE		19	Data unverified.
Rensselaer (Ind.)	10 NE		18	Data unverified.
→ Sky Village (Plymouth) (Wisc.)	1.8 WNW	900	18 S1	80 oct. Data unverified.

34 CHICAGO


SAULT STE. MARIE 15
WINNEBAGO CO
FOND DU LAC
SKY VILLAGE
KOHLER
DETROIT CHICAGO
WISCONSIN DELLS
MAEL
BELL-AERO
WAUPUN
BEAVER DAM
WEST BEND
GROB
BROWN DEER
MADISON 400 (116.1)
TRUAX
WATERTOWN
SKY HAVEN
CURTISS-WRIGHT
HAMPTON
WAUKESHA CO
MAITLAND
GENERAL MITCHELL 278
MOREY
FOUR LAKES
GENESEE
JEFFERSON
WHITEWATER
MILWAUKEE 242 (116.1)
HORLICK-RACINE
TO MUSKEGON
GRAND RAPIDS 35
JANESVILLE
ELKHORN AIR SERV.
AIR CITY
BILL'S
ROCK CO
BELOIT-SO. BELOIT
ROCKFORD 338 (116.1)
KENOSHA
BADGER
WIS.
ILL.
EVERGREEN
WAUKEGAN
NAS. GLENVIEW 269
FOR DETAILS IN CHICAGO AREA SEE CHART 139
GRAYSLAKE
MACHESNEY
STOCKTON
PECATONICA
ALBERTUS
SKY HARBOR
NAS. GLENVIEW 236 (142.74)
PAL-WAUKEE
KANE CO.
CHICAGO 350 (116.1)
WILSON
FRANKLIN PARK
INTERSTATE
DIXON
STERLING
DU PAGE
ASHBURN
NORMANTOWN
FITZGERALD
YORKVILLE
McCOOL 67
THORNTON
GOSHEN 320
LANSING
CROWN POINT
CEDAR LAKE
LAKE VILLAGE
LOWELL 40
McCOOL 359 (116.1)
On request
CHEEVER
RENSSELAER
JASPER CO.
WALNUT
VAN ORIN
VOGEL
NEWARK 49
MORRIS
LA SALLE CO
PRINCETON
BRADFORD 382
BRADFORD
STREATOR
JOLIET 257 (116.1)
MOMENCE
KANKAKEE
HARVEY (W) 385
PEORIA 356
MT. HAWLEY
PHIL-LARRY
SPRINGFIELD 239
POWELL BROS.
KENTLAND
TERRE HAUTE 67
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

GRAND RAPIDS 35



RADIO

INDIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAER, FORT WAYNE	396 (126.18)	CA(ILS)	(3);142.74,126.18
BENDIX, (South Bend)	278 (118.3)	C	(4);118.3,126.18,131.9
DECATUR FM	(- -)	FM, 143°, 24.7	Ft. Wayne
→ FORT WAYNE (Baer Fld)	251 (FW)	MRLWZ,51°, 3,5	
GOSHEN	320(GO)(116.1)	SBRAZ-VDT,83°,2.7	(4); 116.1
NOTRE DAME FM	(- -)	FM, 75°, 4.2	South Bend
SOUTH BEND (Bendix)	215(SN)(116.1)	SBMRAZ-VDT,75°,3.3	(3);116.1

MICHIGAN

BANGOR FM	(- - -)	FM 213°, [illegible]	Grand Rapids
BATTLE CREEK (Kellogg)	272(JC)(116.1)	BMLZ-VDT, 3°, 3.2	(4);116.1
GRAND RAPIDS (Kent County)	329(GR)(116.1)	BMRLZ-VDT,302°,2.2	(4);116.1
JACKSON (Reynolds)	257 (JN)	MRT	(4)
LANSING (Capital City)	266 (LJ)	SBMHAZ-DT,283°,3	(4)
MUSKEGON (Muskegon County)	263 (UK)	BMLZ-DT,317°,2.2	(4)

OHIO

ARCHBOLD (Int)	371(XY)(116.1)	MRVT	(4); 116.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BAER, IND.	110.3		314° Mag.	IM (.05)	LM ····· (1.05)	OM -- (4.55)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

INDIANA

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Auburn	1.3 NNW;RR E	872	27 S2	73,80 oct.Trees sur fld.
(A) BAER (FORT WAYNE)(A)	7 SSW;RR E	798	63h R3	INACTIVE
(A) BENDIX (SOUTH BEND)	3.5 NW;hwy S	778	48h R2 L3 S6	80-100 oct.Poleline S,N.
Cadet (South Bend)	6.5 NE;RR E	730	33 S4	80 oct.Twr W;poleline E.
Chain Lakes (South Bend)	5.2 W;hwy N,S	765	22 S3	80 oct.
Culver (NC)	2 E;lake W	815	26	
Elkhart	2.7 NNW;RR S	752	27 S6	73,80 oct.Hedge N.
Gordon (New Carlisle)	2.8 ESE;hwy N	730	13 S1	Fuel avail.Poles E.
Goshen	4.5 SSE;riv SW	823	39 R1 L3 S6	80,91 oct.
Huntington Co.(Huntington)	4 N;hwy E	750	30 S2	80 oct.Trees NE.
La Porte City	2.5 SSW;RR W	801	29 L3 S6	80 oct.Pole line E.
Logansport	4.4 SSW;hwy E	605	27 S1	80 oct.Poles E,N.
McComb (Decatur)	0.9 NW;hwy E	800	20 S4	80 oct.Poles S.
Manchester (No. Manchester)	1.5 W;RR E	752	21	Poles S.
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,W,S.
Million (Logansport)	7 SW;riv 2 N	594	15	Pole S.
Monticello (Chalmers)	3 ENE,RR,hwy W	650	26 S2	80 oct.
Peru	3.5 WSW;riv E	740	38 S5	80 oct.
Plymouth	1.5 NW;RR E	898	32 S4	80,91 oct.Poles W,E.
Rochester	1.5 E;RR N	779	18 S4	73 oct.Lake S.Poles N.
Smith (Port Wayne)	4.5 N;RR E	831	35h L4 S5	80 oct.No storage.
Sportsman (Mishawaka)	3.7 NE;riv S	760	18 S4	73 oct.No storage.Poles E,S.
Starke Co. (Knox)	1.7 S		26 S3	80 oct.Pole lines sur fld.No storage.Data not verified.
Triangle Air Service (Wellsboro)	2 NNE;hwy S	800	22 S2	80 oct.Poles S,SE,ESE.
Tri State (Angola)	4.2 W;lake W	900	30 S4	73 oct.
Victory (Warsaw)	4 N; RR E	790	24 S2	Ltd 73 oct.Obsts sur fld.
Whittenberger (Wabash)	1.5 NNW;hwy E	770	20 S2	80 oct.
Myers (Ft. Wayne)	4 SE		24 S2	80,91 oct. Pwr lines NE.Data unver.
La Fontaine	5 NE;hwys N,W		19 S4	80 oct.Data unverified.
Bluffton	0.2 S		31	Unverified.
Medaryville	1.1 NW		24	Unverified.
Midway (Goshen)	5 NW		36	Unverified.

MICHIGAN

Abrams (Grand Ledge)	1 NE	844	26 S1	80 oct.Pwr line S,W.Data unver.
Adrian City	3 SW; RR N	800	25 S6	80,91 oct. Obsts sur fld.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted). → NEW OR REVISED DATA

MICHIGAN

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Allegan	1.9 E;RR S	701	21 S4	80 oct.Pole line N,E,S,Blocked.
(P) Alma	1.3 NE;riv SE	750	32 S6	80 oct.Poles W.
Austin Lake (Kalamazoo)	8.5 SSE;lake N	860	27 S4	80,91 oct.Poles N
Barry (Saginaw)	3 WSW;riv S	599	19 S4	80 oct.
Belding	2.1 W;RR E	790	27 S4	73 oct.Poles S.
Breedsville Airpark	0.6 WNW;RR E	654	23 S4	73 oct.No Sto.Pole line NE,S,SW.
Brooks (Marshall)	1.3 S;riv N	950	26 L3 S6	80 oct.Trees W,lgtd.
CAPITAL CITY (LANSING)	3.8 NW;RR S	857	42h R1 L4 S6	73,80 oct.
Cass Co. Mem. (Dowagiac)	1 NW;RR SE	760	27 S2	73,80 oct.Pole line E.
City (South Haven)	4 S;RR W	640	30 S4	73 oct.Trees W.
Elsie	0.3 SSE;RR NNE	730	19 SL	80 oct.Pole lines sur fld
Fitch H. Beach (Charlotte)	1.8 ENE;RR NW	880	25 S6	73 oct.No storage
Haines (Three Rivers)	2.3 NE;riv SE	820	26 S1	80 oct.Poles N,S.
Hastings	3.2 WNW;RR SW	802	34 S3	80 oct.Pole line N.
Hillsdale	1.6 NW;RR E	1160	19 S4	73,80 oct. No sto.Poles NE,E.
Ionia	3 S;hwy W	810	24 S6	73 oct.Poles NW.
Jack Barstow (Midland)	1.4 ENE;RR S	634	27 S2	73,80 oct.Poles NE.
Jewett (Mason)	1.3 SE;RR W	920	22 S2	73 oct.Poles W,
Johnsons (Ithaca)	1 ENE;RR S	750	17 S2	80 oct.Ltd storage.
KELLOGG (BATTLE CREEK)	3 WSW;RR bed W	936	49h R1 L5 S6	80,91 oct.Pole lgts prior req.
KENT COUNTY (GRAND RAPIDS)	3.5 S;RR NE	681	44h R1 L3 S6	73,80,91 oct.Pole line NW.SE. Radio repairs.
Kirsch (Sturgis)	1 NW;RR E	922	24 S4	80 oct.Poles S.
Lakeview	1.1 NNE;lake S	900	19 S6	80 oct. Poles N.
→ Leach Aero Service(Hartford)	1 NNW;RR E	830	22 S3	73,80 oct.
(P) Legg (Coldwater)	1.3 NW	982	32 S2	80 oct.Trees E.
(P) Lindbergh (Kalamazoo)	4 SSE;RR E	872	40h S6	80,91 oct.Poles S.
Marks (Lawton)	1 N;RR S	770	25 S4	73,80 oct.Poles W,ENE.
Montcalm Co. (Greenville)	2.5 S;RR E	800	22 S1	80 oct.
Mt. Pleasant	2.2 NE;RR W	755	36 S4	80 oct.
(P) MUSKEGON COUNTY	3.5 S;lake N	627	40h R1 L3 S6	73,80,91 oct.
Newaygo	0.8 SSE;RR NNW	765	20 S1	80 oct.
Niles	1.5 NE;RR NW	740	24 S2	73,80 oct.Trees N,S.
Northside (Muskegon)	5.4 NNE	590	29 S4	73 oct.No sto.Refinery SW.
Park Township (Holland)	3 WNW;bay S	612	27 L4 S6	73,80 oct.No beacon,Lgts prior req.
(P) Reynolds (Jackson)	2.5 WNW;RR S	990	40h R1 L5 S4	80,91 oct.No sto.Pole line SE,SW.
St.Joseph Co.(Centerville)	5 SE;RR,hwy N	830	15	Pole line N,trees W. (NC)
Shiawassee Co. (Owosso)	2 E;riv S	740	24 S1	80 oct.Poles sur fld.
Sparta	2.7 SE;RR W	752	25 S4	73,80 oct.Poles sur fld.
Tri-City (Saginaw)	10 NW;RR SW	660	57h	
Twin City-Ross (Benton Harbor)	1.5 NNE;RR S	640	38h S6	73,80 oct.
White Cloud (NC)	0.5 N	872	18	Twr SE;poles E,W.
Oceana (Rothbury)	1 W;lakes NE		30 S2	80 oct. Data not verified.
Mecosta Co.,5,GR-TG	1.5 NW;RR E	928	39 L3 S4	80,91 oct. (Big Rapids)
Saugatuck-Douglas(Douglas)	2 S;hwy W.		26 S1	73 oct. Data unverified.

OHIO

*	Archbold Int,18,CG-LG	3.5 NNW;RR N	716	28 R1 L3	
	Bryan-Defiance Memorial (Defiance)	5.2 NW;riv E	705	31 S2	73,80 oct.Pole line S,E.
	Grieser (Wauseon)	2.5 E;RR N	750	24 S1	80 oct.
(P)	Lima	4 WNW;RR N	830	42 S6	80,91 oct.Pole line N.
	Paulding County (Paulding)	2.5 NE;RR W	720	26 S2	80 oct. Poles S.Data not verif.
	Skinner (Hicksville)	1.6 NNW;RR S	810	26 S1	73 oct.Obst sur fld.
	Van Wert	1WSW;hwy S	785	26 S6	80,91 oct. Poles N,S,NW,NE

RADIO

MICHIGAN

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ BISHOP (Flint)	278	C	(4)
DETROIT CITY (Detroit)	278	C	(4)
DETROIT NAS	269(142.74)	CN	(3);142.74 (8-17)
DETROIT	201 (D)	K; 329°,2.2	Detroit City Arpt.
FLINT	335 (FN)	MHT	(3)
→ ROMULUS	230(DT)(116.1)	SBRAZ-VDT	(3);116.1
Romulus AAF	219 (126.18)	CA(ILS);86°,2.5	(4); 126.18
SAGINAW	212 (SI)	MHT	(4) (6-22)
SALINE FM	(- - -)	FM, 261°,20	Romulus
SELFRIDGE (Mt.Clemens)(Army)	388 (DLD)	SBMRAZ	(3); 126.18
Selfridge Field	396 (126.18)	CA(ILS);119°,2	(3) only
WIXOM FM	(- - - -)	FM, 344°,20	Romulus
YPSILANTI (Willow Run)	414 (DYP)	MH; 360°,0.5	Oper cont.
→ Willow Run Airport	332 (118.7)	CI	(4);118.7 (8-24)
OHIO			
AKRON	362 (AX)	BMRLZ-DT	(3)
Akron Airport	272 (126.18)	C; 45°,0.4	(4);116.1,131.9,126.18
AKRON LFM	(-)	LFM, 45°,4.5	Akron
AVON LAKE LFM	(- - - -)	LFM, 325°,8.1	Cleveland
BOWLING GREEN FM	(- - -)	FM, 201°,10.3	Toledo
BRECKSVILLE FM	(-)	FM, 100°,13	Cleveland
CLEVELAND	344 (CV)	SBRAZ-DTX,100°, 0.7	(3)
ELYRIA FM	(- - -)	FM,280°,10.9	Cleveland
FINDLAY	209 (JF)	MH	(4)(cont.)
HAYESVILLE (Int.)	329 (HA)	BMHT	(4)(cont.)
HOMERVILLE FM	(. . -)	FM, 31°,83	Columbus
NORTH ROYALTON LFM	(- -)	LFM,145°,10.8	Cleveland
PERRY (Int.)	332(PE)(116.1)	MHVT	(4); 116.1
PORT CLINTON	275(PY)(116.1)	MHVT	(4); 116.1
TOLEDO	239(TL)(116.1)	SBMRAZ-VDT	(3); 116.1
Toledo Airport	263	C; 10°,2.7	(4)
VERMILION FM	(. . - - -)	FM, 280°,26	Cleveland

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ROMULUS AAF, MICH.	109.9		50° Mag.	IM (.07)	MM ·····(.98)	OM --(4.27)
					MMK	OMK
SELFRIDGE, MICH.	109.5	332.6	184° Mag.	IM (.23)	MM ·····(.81)	OM --(4.31)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

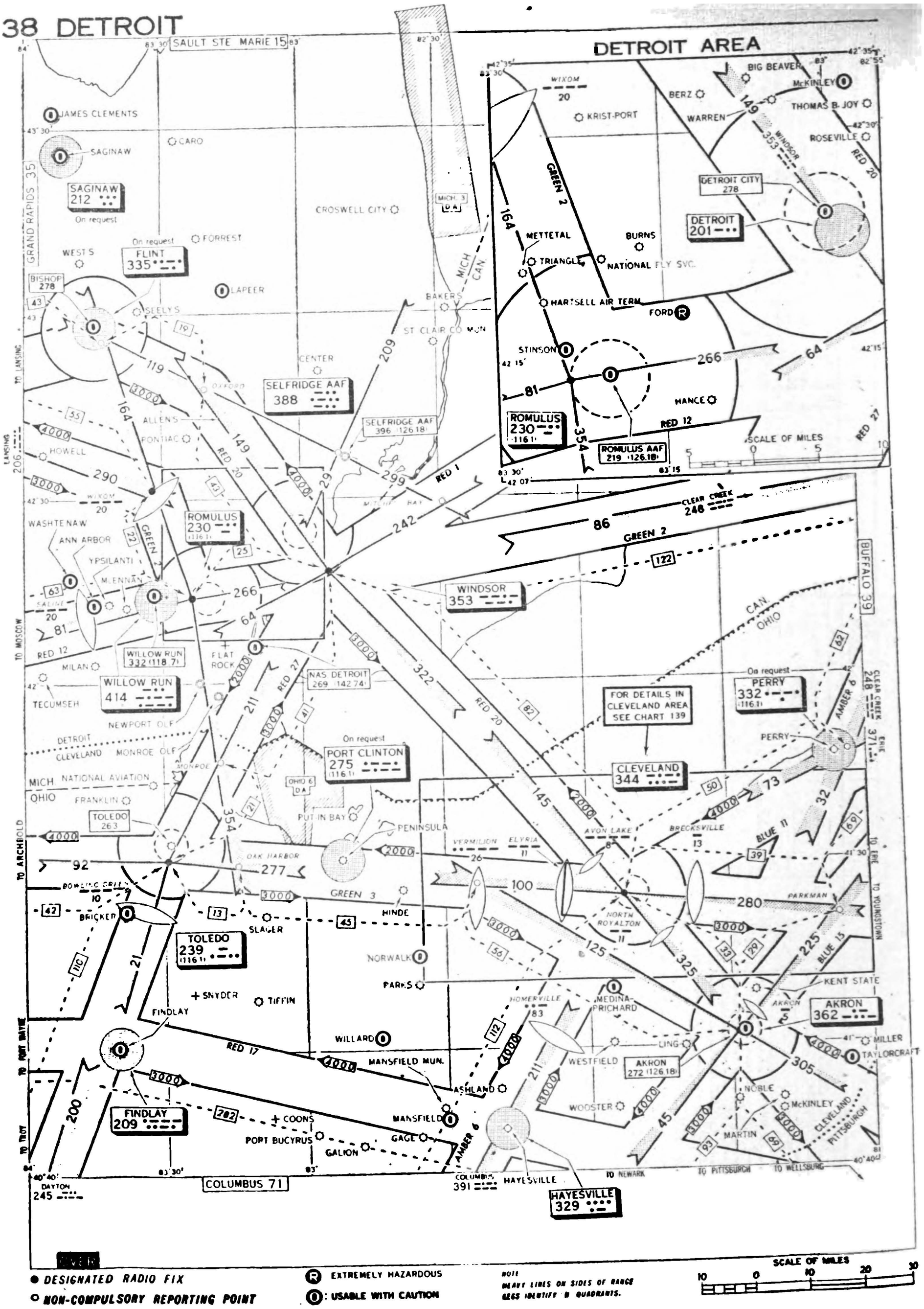
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen's (Pontiac)	5.5 NNE; RR W	1020	26 S6	80 oct. Trees S, SW, SE.
Ann Arbor	4 S; RR E	835	28 L2 S6	80 oct. Trees NE.
Baker's (Port Huron)	3 NNW; RR NNE	585	24 S6	80 oct. Poles N, S, NE.
Berz (Birmingham)	1.5 E; RR SW	700	25 S1	73,80 oct. Pole line N.
Big Beaver	0.8 E; hwy W	650	21 S4	80 oct. Pwr line N.
(P) BISHOP (Flint)	4 SSW; RR NW	781	50h R2 L5 S5	80 oct.
Burns (Detroit)	8.5 WSW; RR N	625	19 S6	73 oct.
Caro	3 WSW; RR SE	699	22 S2	80 oct.Poles E.
Center (Armada)	2.3 W; RR S	666	25 S1	80 oct. Pole line NNE.
Croswell City	1 W; RR,riv E	732	25 S2	80 oct. Trees S, E.Rcv req.
(N) Detroit NAS (N)	17 SSW	594	47h R1 L5 S6	91,100 oct. ARPT OF ENTRY
DETROIT CITY (Detroit)	5.5 NE; RR S	625	53h R1 L4 S6	73,80,91 oct.Tank W side.
Ford (Detroit)	8.8 SW; RR N	600	37h	PRIVATE.
Forrest (Fostoria)	2.4 S; riv SE	830	26 S1	80 oct.Pole line sur fld.
Hance (Wyandotte)	2.5 W; hwy W	590	33 S6	73 oct. No sto.
Hartsell Air Term.(Wayne)	3.5 NW; RR E	675	18 S6	80 oct. No sto.
Howell	0.8 N lake E	930	20 L1 S1	73 oct.
James Clements (Bay City)	3.5 S; riv S, W	599	36 S4	80 oct.
Flat Rock	1 NE	590	28 S1	80 oct. Data unverified.

MICHIGAN

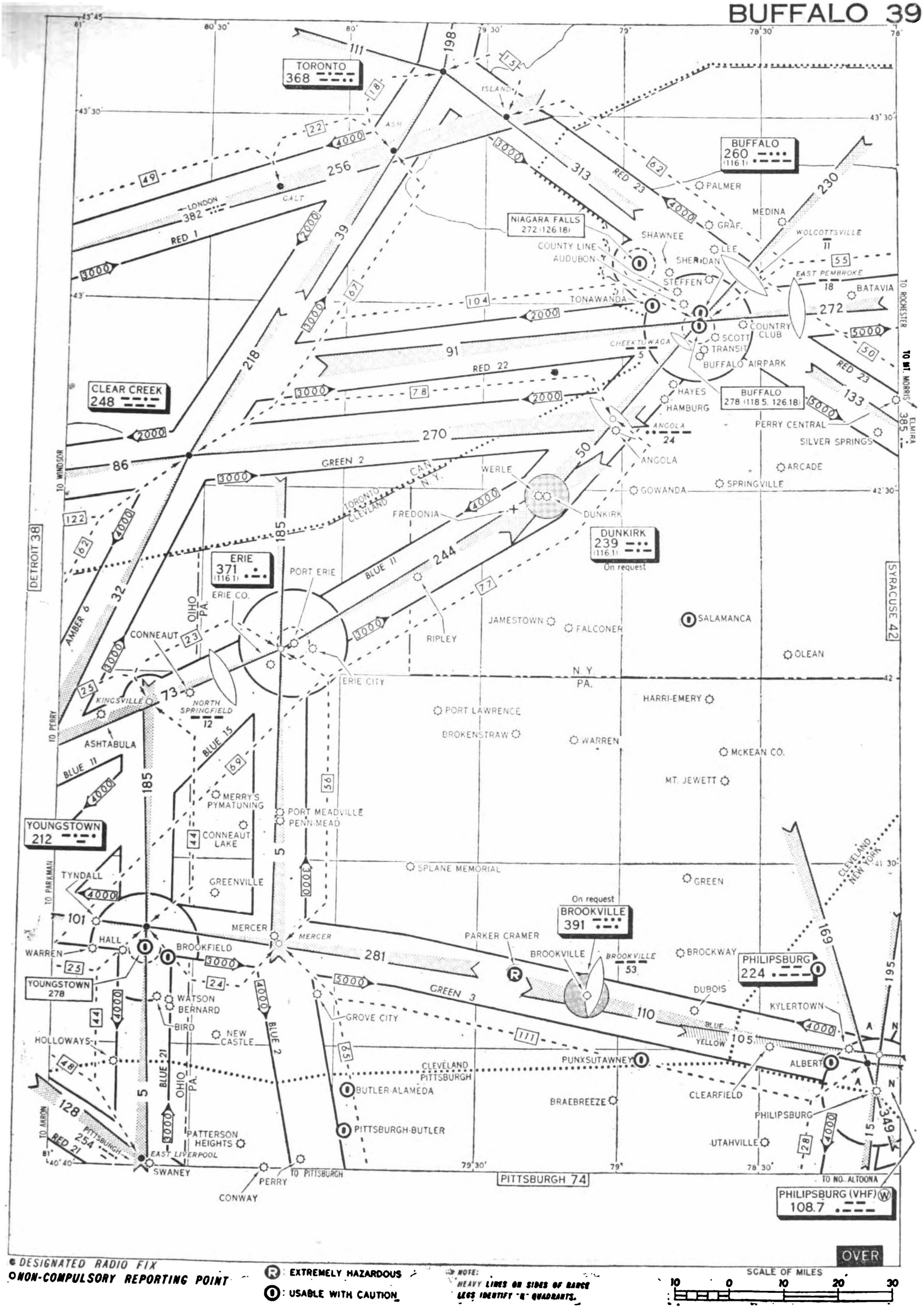
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Krist-Port (Farmington)	3.8 N; jct rds	860	27 S6	73,80 oct. Obsts sur fld.
(P) Lapeer	2.4 ENE; RR S	830	32 S6	80 oct. No sto.Poles NW.
McEnnan (Ypsilanti)	2.7 SSW; rd E, S	738	23 S4	80 oct.
McKinley (Fraser)	1.3 NW; RR E	620	27	Pole line E, NE.
Mettetal (Plymouth)	1.5 SSE; RR E	700	23 S6	73,80 oct. Poles N, W.
Milan	3.8 SW; RR SE	705	23 S2	73 oct. Pole line N.
(K) Monroe OLP (Newport)	3.5 SSE; hwy SE	590	29 S4	73 oct. No sto.
Nat'l Fly. Serv.(Detroit)	11.5 WSW; RR N	635	30 S4	73 oct. No sto.Poles NE, NW.
(N) Newport OLP (N)	3 W	608	20h	
Pontiac	6.4 WNW; RR NE	970	21h L4 S6	80,91 oct. Poles S.
(A) Romulus AAF (A)	3 E; RR N	630	61h R3 L5 S6	91,100 oct.Ltd svcg.ARPT OF
Saginaw	4.5 E; RR N	601	33 R1 L4 S4	73,80 oct.Poles S,SE,SW ENTRY
St. Clair Co.(Port Huron)	5.5 SW; hwy S	650	23 L1 S5	80 oct. Poles NE,SE,SW,NW.
Seeley's (Davison)	4 WSW; RR N	780	20 S6	80 oct. No sto. Poles N.
(A) Selfridge(Mt. Clemens)(A)	3 E; lake NE	583	60h R3 L5 S6	73,100 oct. JP-1 Poles E. FOREIGN CLEARING STATION.
Stinson (Wayne)	1.4 SW; RR E	660	25h S1	80 oct. Hi-line N, NE.
Tecumseh	1.8 NNE; RR W	815	26 S6	73 oct. Pole line S.
Thomas B.Joy (Detroit)	13 NE; hwy E	616	24 S6	73,80 oct.No sto.Trees SW.
Triangle (Plymouth)	1.5 ESE; hwy S	700	26 S4	80 oct. 30' poles N.
Warren	1.6 WNW; RR E	625	23 S1	73 oct. Pole line N.
West's (Clio)	4 SW; RR E	690	21 S1	73 oct. Pole line E, NE.
Willow Run (Ypsilanti)	4 E;RR N; riv S	710	74h R2 L5 S1	90,100oct.Rdo rec req.
Wings (Utica)	2.5 SW; RR E	630	26 S6	73,80 oct.Poles N;stumps NW
Ypsilanti	4.4 WSW; RR NW	840	24 S5	80 oct Pole E;woods N No sto.
Roseville	0.5 S;hwy W	610	29 S6	73,80 oct.Poles S,SW.
OHIO				
(P) AKRON	3.4 SE; RR W	1043	44h R2 L5 S4	80,100 oct. No sto.ARPT OF
Ashland	1.8 N	1079	23 S2	73,80 oct. Pole line W ENTRY
Bricker (Bowling Green)	1 NE; RR W	675	30 S4	80 oct.
Coons (Nevada)	0.3 NE; RR S		21 S2	80 oct. Data not verified.
Fenwick (Kellys Island)	1.3 NE	600	18	(NC)
Findlay	1.5 SSW; hwy NW	800	27 R1 L3 S4	80 oct.
Franklin (Toledo)	4.5 WNW; RR S	630	32 S4	80 oct. Pole line all sides.
Gage (Mansfield)	4.5 W; RR SE	1360	13 S2	73 oct.
Galion	1.5 WNW; RR SE	1155	18 S2	80 oct.
★ Hayesville Int,27,LV-CV	2.5 WNW; hwy S	1300	30 R1 L3	
Hinde (Sandusky)	2.8 E; RR S	574	30 S6	73oct.Poleline S.ARPT OF ENTRY
Kent State	2.8 W; RR S	1120	36 S4	80 oct.No sto.Pole line N.
Ling (Barberton)	3 WSW; RR N	1150	30 S6	80 oct. Obsts sur fld.
McKinley (Canton)	2.3 NE; hwy SE	1100	32 S4	80 oct. Poles N,S,E.
Mansfield	3.8 N; RR E	1300	26h L S6	73,80 oct. Pole line SW,W.
Martin (Canton)	4 NNE; hwy SE	1080	30 L S6	80 oct. Pole line sur fld.
Medina Prichard (Medina)	3 WNW; RR NW, SE	1060	25 S6	80 oct.No sto.Poles S.
Miller (North Benton)	1.5 W; RR SE	1070	28 S4	73 oct. Poles S.
National Aviation(Toledo)	4.1 NNE; RR E	595	38 S6	91 oct. Pole line S,W,NNE.
Noble (Massillon)	4.5 NNE; hwy W	1080	22 S6	80 oct.No sto. Pole SSW.
Norwalk	0.8 NE; RR W	700	18 S2	73 oct. Pole line W.
" Airpark (NC)	2 NNE; RR W	690	29 S2	73,80,91 oct. Poles W, SW.
Parks Airpark (Norwalk)	4.5 S; hwy E, W	880	29 S1	80 oct. Poles E.
Peninsula (Port Clinton)	3.5 E; RR S	587	36 R1 L3	
★ Perry Int,4B,CV-A?	2.3 NE; RR S	692	26 R1 L3	Poles E.
Port Bucyrus (Bucyrus)	2 S; RR NW, E	1000	26 S6	80 oct. Poles E. ARPT OF
Put-In-Bay	1.2 SSW	590	16	Poleline NW.PRIVATE. ENTRY.
Slager (Fremont)	2 NW;RR SW	630	19 S6	73,80 oct.No sto.Poleline
Snyder (Fostoria)	1 E; reservoir SSW		32 S1	80 oct.Data unver. N.E.SE.
Taylorcraft (Alliance)	2.5 NNE; RR SE	1170	22h S5	80 oct.No sto.Poles sur fld.
Tiffin	1.9 N;RR W	750	26 S4	80 oct.Poles E.
TOLEDO	8.2 SSE;RR W	621	42h R2 L5 S4	73,83,91 oct.
Wellington	Adj NW; RR W	850	20 S2	80 oct.Stacks NE.Data unver.
Westfield (LeRoy)	1.2 SSE;RR E, S	1030	16 16 S4	80 oct.No sto.
Willard	1.6 SSW;RR NE	960	22 S2	80 oct.Poles W.
(P) Wooster	3 NNE;hwy SE	1150	32 S6	80 oct.Poles S, SE.
Mansfield,mun	5 N	1300	56h S1	73,80,91 oct.
Washtenaw (Ann Harbor)(NC)	5 W		26 S2	80 oct. Hi-line S.Data unver

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

38 DETROIT


DETROIT AREA
SAULT STE MARIE 15
JAMES CLEMENTS
SAGINAW
SAGINAW 212
On request
CARO
CROSWELL CITY
FORREST
FLINT 335
WEST S
LAPEER
BISHOP 278
SEELYS
BAKERS
ST CLAIR CO MUN
MICH CAN
MICH 3 DA
GRAND RAPIDS 35
TO LANSING
TO MOSCOW
TO ARCHBOLD
TO PORT WAYNE
TO TROY
CENTER
SELFRIDGE AAF 388
SELFRIDGE AAF 396 (126.1B)
OXFORD
ALLENS
PONTIAC
HOWELL
WIXOM
WASHTENAW
ANN ARBOR
YPSILANTI
MCENNAN
SALINE
ROMULUS 230
ROMULUS
GREEN 2
MILAN
WILLOW RUN 332 (118.7)
WILLOW RUN 414
TECUMSEH
NEWPORT OLF
DETROIT CLEVELAND MONROE OLF
MICH NATIONAL AVIATION
OHIO
FRANKLIN
TOLEDO 263
BOWLING GREEN
BRICKER
TOLEDO 239
SNYDER
TIFFIN
FINDLAY
FINDLAY 209
COONS
PORT BUCYRUS
GALION
GAGE
MANSFIELD
MANSFIELD MUN.
WILLARD
NORWALK
PARKS
HINDE
SLAGER
GREEN 3
RED 17
RED 20
RED 27
RED 1
RED 12
AMBER 6
NAS DETROIT 269 (142.7)
On request
PORT CLINTON 275 (116.1)
OHIO 6 DA
PUT-IN-BAY
PENINSULA
OAK HARBOR
MONROE
WINDSOR 353
CLEAR CREEK 248
86
122
CAN. OHIO
BUFFALO 39
FOR DETAILS IN CLEVELAND AREA SEE CHART 139
CLEVELAND 344
PERRY 332 (116.1)
PERRY
AMBER 6
CLEAR CREEK 248
ERIE 371
TO ERIE
TO YOUNGSTOWN
VERMILION
ELYRIA
AVON LAKE
BROOKSVILLE
NORTH ROYALTON
PARKMAN
BLUE 11
BLUE 15
KENT STATE
AKRON 362
AKRON 272 (126.1B)
AKRON
MEDINA-PRICHARD
HOMERVILLE
LING
WESTFIELD
WOOSTER
NOBLE
MCKINLEY
MARTIN
CLEVELAND
PITTSBURGH
MILLER
TAYLORCRAFT
TO NEWARK
TO PITTSBURGH
TO WELLSBURG
COLUMBUS 391
HAYESVILLE
HAYESVILLE 329
COLUMBUS 71
DAYTON 245
BIG BEAVER
McKINLEY
THOMAS B. JOY
ROSEVILLE
WARREN
BERZ
KRIST-PORT
GREEN 2
DETROIT CITY 278
DETROIT 201
METTETAL
BURNS
TRIANGLE
NATIONAL FLY SVC.
HARTSELL AIR TERM
FORD
STINSON
ROMULUS 230 (116.1)
ROMULUS AAF 219 (126.1B)
HANCE
RED 12
RED 27
SCALE OF MILES
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.

BUFFALO 39



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ EXTREMELY HAZARDOUS

Ⓞ USABLE WITH CAUTION

NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

SCALE OF MILES 10 0 10 20 30

OVER

RADIO — NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANGOLA FM	(. . - - -)	FM, 230°, 24	Buffalo
BUFFALO	260(BJ)(116.1)	SBRAZ-VDT	(3); 116.1
Buffalo Airport	278 (126.18) (118.5)	AC;230°,0.9	(4);118.5,126.18,131.9
CHEEKTOWAGA LFM	(- - -)	LFM,230°,4.7	Buffalo
DUNKIRK	239(DK)(116.1)	MHVT	(4); 116.1
EAST PEMBROKE FM	(- -)	FM, 90°, 17.5	Buffalo
NIAGARA FALLS AIRPORT	272 (126.18)	CI	(4);126.18 (7-23)
WOLCOTTSVILLE FM	(-)	FM, 50°, 11	Buffalo
OHIO			
YOUNGSTOWN	212 (CT)	BMRLZ-DT	(4)
Youngstown Airport	278	CI; 185°,3.5	(4); (730-2330)
PENNSYLVANIA			
BROOKVILLE FM	(- - -)	FM, 290°, 53	Philipsburg
BROOKVILLE (Int.)	391 (BR)	MH	(4)
ERIE (Port Erie)	371(ER)(116.1)	SBMRAZ-VDT,64°,2	(4); 116.1
NORTH SPRINGFIELD FM	(- - -)	FM, 253°, 12	Erie
PHILIPSBURG	224 (MJ)	SBRAZ-DT,169°,5	(4)
PHILIPSBURG	108.7 (MJ)	VARW	
CANADA			
CLEAR CREEK, ONT.	248 (QO)	BRAZ-DT	(4),3232.5(N),5632.5 (D)
TORONTO, ONT.	368 (YZ)	SBRAZ-DTX	3105,6210,3117.5

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Angola	1.4 N;RR SE	610	15 S1	80 oct.
Arcade	2 N;RR E,W	1740	22 S4	Ltd 80 oct.No storage.
Audubon (Getzville)	1.7 SSW;RR N,SW	580	19 S6	80 oct.
(P) Batavia	2.4 NNE;rd W	910	30 S6	80 oct.Pole line W.Trees E.
Buffalo Arpk (Gardenville)	1.5 ENE;rd S	680	27 S6	80 oct.
(N) BUFFALO	6.1 ENE;RR NE	712	56h R2 L6 S6	80-100 oct.ARPT. OF ENTRY.
Country Club (Clarence)	2.3 SSE;RR S	800	36 L S6	80 oct.Trees SW.
County Line (No.Tonawanda)	3.4 E;RR SW	577	21 S4	80 oct.
(P) Dunkirk	3 E;RR N,S	692	40h R1 L5 S2	80 oct.
Erie Co.Aero Park (Hamburg)	3.5 WSW;RR E,W	750	18	Pole line S.UNUSABLE.(NC)
Falconer	1.3 NNE;RR S	1250	22 S4	80 oct.Obsts sur fld.
Fredonia	3.5 W;RR SE		27 S2	80 oct.Pole line N,NE,E.
Gowanda	1.4 NNW;crk W	760	22 S6	80 oct.No storage.
Graf (Lockport)	2.8 N;RR S	380	15 S6	80 oct.
Hamburg Airpark Inc.	2 NNW;RR,hwy W	722	23 S2	80 oct.Pole line NE.
Hayes (Blasdell)	0.7 SSE;RR E,W	723	20 S4	80 oct.No storage.
Jamestown	4.1 N;hwy E	1719	27h S6	80 oct.Trees S.
Lee (Lockport)	1.8 SSE;hwy N	640	18h S2	80 oct.Pole line N.
Medina	2 W;RR S	500	21 S1	80 oct.Obsts sur fld.
(P) Niagara Falls	4 E;RR N	587	55h R1 L5 S4	80-100 oct.JP-1.No sto.ARPT OF
Olean	1.8 SE;RR N	1440	22 S6	80 oct.Trees W,N;hill S. ENTRY
Palmer (Olcott)	1.2 SSW;RR S	315	17 S2	73 oct.Pole line E.
Perry Central	1.7 NNW;lk SSW	1400	23 S1	80 oct.Pole line,trees N,E.
Perry Fly.Service (Perry)	3.3 W;RR W	1640	21	Pole lines NNE. (NC)
Ripley	1.4 WNW;lake N	650	22 S4	80 oct,No storage.
Salamanca	1.6 W;RR N,S	1370	12 S6	80 oct.
Scott (Lancaster)	1.5 E;RR N,S	680	22 S1	80 oct.Pole line SW.Rnwy data
Shawnee Flying Service (North Tonawanda)	4.5 NNE;riv SE	580	33 S6	80 oct.Pole line E,W unverifie
Sheridan (Williamsville)	2.5 NE;hwy SE	640	38 S6	80 oct.No storage.
Silver Creek (NC)	1 WSW;hwy SE	720	11	Trees E. NW.
Silver Springs	0.5 E;lake NE	1420	15 S1	80 oct.
	7.3 NW	570	103 S6	80 oct. Ramp; all face.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X111) (NC)-Not charted.

→ NEW OR REVISED DATA

NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Springville	1.5 NE;RR W	1395	26 S4	80 oct.Pole line N,E.Rnwy info
Steffen (East Amherst)	3.5 N	582	22 S6	80 oct.Obsts sur fld. unver.
Tonawanda	3 SSW;RR E	610	30h S4	80 oct.Rough,Obsts sur fld.
Transit (Depew)	2 SSW;RR N	670	13 S2	80 oct.Trees,bldg E.
Werle (Dunkirk)	1.8 ENE;RR N,S	640	22 S1	80 oct.Poles,trees sur fld.
Westfield (NC)	1.5 WSW;hwy N	758	18 L1	S blocked.
OHIO				
Ashtabula	3.1 W;lake N	621	17 S2	80 oct.
Barnard (Youngstown)	3.4 E;lake NE	1140	28 S6	73,80 oct.Pole line N,S,W.
Bird (Youngstown)	2.6 NE; RR W	1000	22 S4	80,91 oct.Pole line W,N.
Brookfield	0.8 W;RR W	1130	20	Poles N,E.
Conneaut	2 ESE;hwy S	670	18 S1	80 oct.
Hall (Warren)	3.5 ENE;RR NW	900	26 S2	73,80 oct.Poles E.
Holloways (Greenford)	1 ENE;RR W	1250	15 S1	80 oct.Wires E.
Sky Harbor (Williamsfield)	1 S;hwy E	1140	26	Poles E. (NC).
Swaney (East Liverpool)	4.9 NW;crk SE	1170	22 S2	80 oct.
Tyndall (Warren)	6 NNW;RR E	940	30 L1 S4	80 oct.No storage.
Warren Airways	2.3 WNW;RR S,E	900	22 S2	73 oct.Trees S.
Watson (Youngstown)	3.8 E;lake S	1080	17 S2	Ltd 73,80 oct.
YOUNGSTOWN	11 N;hwy E	1178	39h R2 L5 S6	73,80,91 oct.
PENNSYLVANIA				
Albert (Philipsburg)	2.3 ENE;rd N	1630	31 S2	80 oct.Pole line S,E.
Braebreeze (Marchand)	0.3 N;RR NW	1650	18 S2	80 oct. Trees N,NE.
Brockway	1.3 NE	1700	18	
Brokenstraw (Youngsville)	2.6 W;RR S	1230	17 S4	73 oct.
★ Brookville Int,45A,CG-LG	2 WSW;RR E	1416	30 R1 L3 S1	80 oct.
Butler-Alameda (Butler)	3.4 WNW	1340	24 S6	80 oct.Pole line E.
Clearfield	1.5 WSW;RR SE	1220	20 S1	80 oct.Pole line NE.
Conneaut Lake	1.7 WSW;hwy SE	1250	18 S2	80,91 oct.Pole line SE end.
Conway	0.7 N	950	24 S4	80 oct.Hill N.Rnwy data unverif.
Dubois	1.7 ESE;RR NE	1575	30 S6	80 oct.
Erie City (Kearsarge)	0.5 W;hwy E	900	29 S6	80 oct.Pole line SE.
Erie County (Erie)	11.6 SW;hwy N	805	24 S6	80 oct.Poles N,E,S.
Green (Ridgeway)	3 NW;hwy,RR E	1720	21 S2	No fuel.Trees NNW.
Greenville	2.3 W;RR E	1180	17 S2	80 oct.Pole line S.
Grove City	2.1 SSE;RR E	1275	19 S4	80 oct.
Harri-Emery (Bradford)	2.3 WSW;RR E	1490	20 S4	80 oct.
Kylertown	1 WNW	1660	40 S4	80 oct.Trees S,WNW.
McKean County (Bradford)	11 S;RR SW	2140	45h	
Mercer	4.8 NNE;RR W	1300	20 L1 S6	80 oct.
Merry's Pymatuning (Linesville)	1.5 NW;RR E	1200	21 S2	73 oct.Pole line NNE.
Mount Jewett	0.8 ESE;hwy N	2240	19 S4	80 oct.
New Castle	4 WNW;hwy SE	1080	29h S5	80 oct.
Parker Cramer (Clarion)	1ENE;riv N	1480	18 S1	80 oct.
Patterson (Beaver Falls)	1.5 S;RR,riv E	1020	26 S4	80 oct.
Penn-Mead (Meadville)	3 SSW;hwy E	1365	20 S2	73 oct.
Perry (Mars)	5 E;hwy E	1060	16 S6	80 oct.No sto.Pole line E.
Philipsburg,Site 51A,CG-L6	7 E;hwy N	1940	30h R1 L3 S1	80 oct.
Pittsburgh-Butler (Butler)	6.7 SSW;hwy E	1235	49 L1 S6	80 oct.
PORT ERIE (Erie)	6 WSW;RR SE	735	46h R1 L5 S6	80,91 oct.
Port Lawrence (Corry)	1.2 S;RR N	1745	23 S2	73 oct.Pwr line NW.
Port Meadville (Meadville)	3.4 W;hwy S	1400	32h L4 S6	80 oct.
Punxsutawney	3 NE;hwy S	1470	22 S2	Ltd 80 oct.Pole line ESE,S.
Splane Memorial (Oil City)	4.1 NNW;hwy E	1490	22h S4	80,91 oct.
Utahville	1N;RR S	1800	22 S2	Ltd 73 oct.
Warren	2 WSW;RR N	1100	23h S4	80 oct.

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.GUARDED,HRS. OF OPER., REMARKS
DANSVILLE	212(DA)(116.1)	MHVT	(4); 116.1
ELMIRA (Chemung Co.)	385(EA)(116.1)	SBRAZ-VDT,75°,1.8	(4); 116.1
ROCHESTER	206(RC)(116.1)	BMRLZ-VDT	(4);116.1
Rochester Airport	278	CI;298°,2.2	3105,4495 (8-24)
ROME AAF	396 (126.18)	CA	(4); 126.18 (8-20)
SYRACUSE	350(SR)(116.1)	SBRAZ-VDT	(3);116.1
Syracuse Municipal	278	C ; 178°, 2.2	(4)
TRI-CITIES (Endicott)	278	CI	3105(days)
UTICA	359(UA)(116.1)	BMRLZ-VDT,151°,3.0	(4);116.1
PENNSYLVANIA			
ALLENTOWN (Allentown-Bethlehem)	320(XA)(116.1)	SBMRAZ-VDT,192°,2.7	(4); 116.1
LAKE CARE FM	(- - - -)	FM, 359°,20.8	Wilkes-Barre
SLATINGTON FM	(- - - -)	FM, 290°, 12	Allentown
SUNBURY	353(SV)(116.1)	MHVT	(4);116.1
SUNBURY	108.3 (SV)	VARW	
WILKES-BARRE (Wilkes-Barre-Wyoming Valley Airport)	272(WI)(116.1)	SBMRAZ-VDT,243°,2.6	(4);116.1
WILLIAMSPORT	233 (IA)	BMRLZ-DT,281°,7.5	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NEW JERSEY

AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lake Susquehanna(Blairstown	2.3 WSW;RR S	380	28 S6	80 oct.
Martins Creek, Belvidere	3 SSW;riv SE	340	25 S6	80,91 oct.Pole line N.

NEW YORK

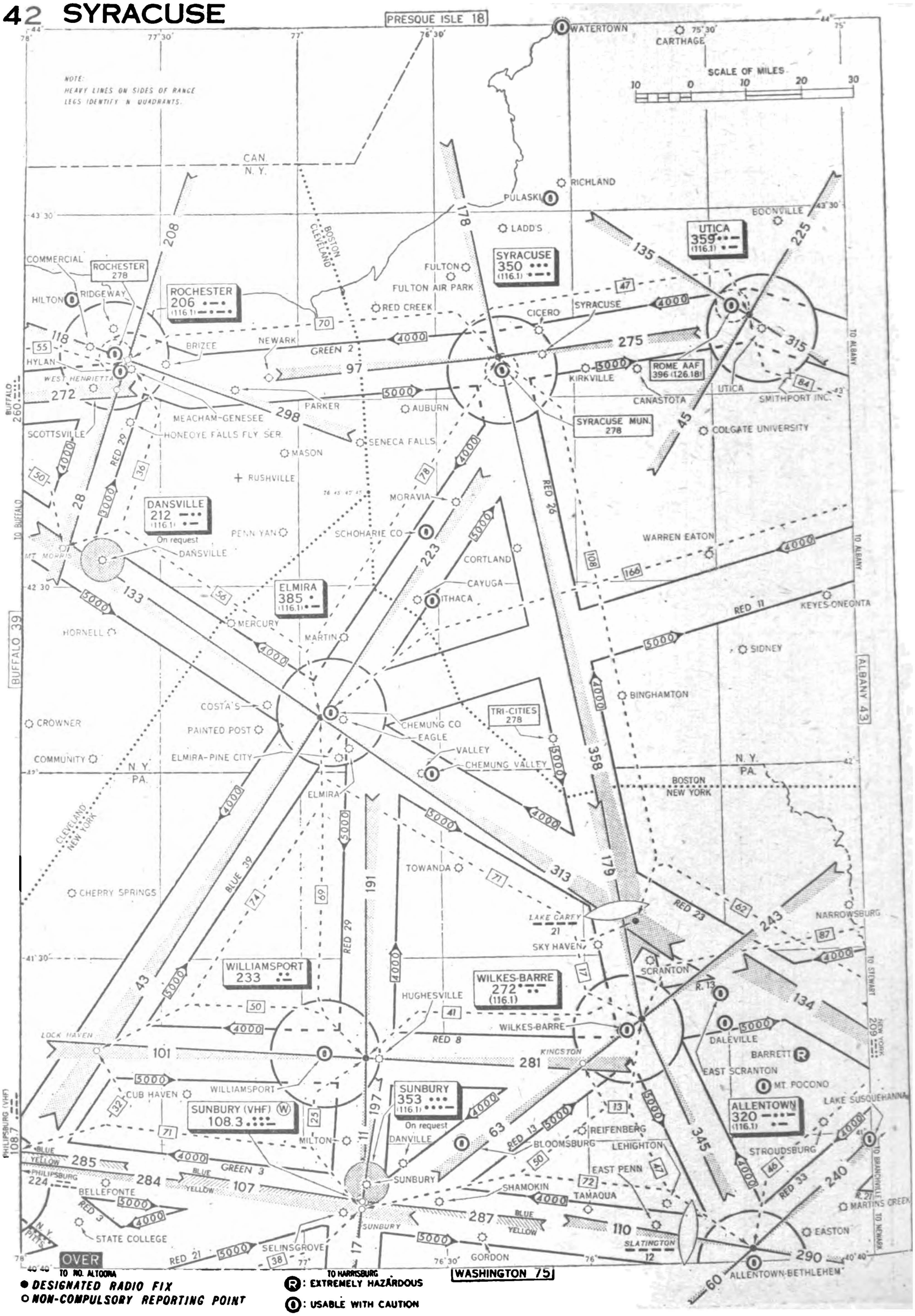
Auburn	3.7 NNW;lake E	525	24 S4	80 oct. Poles,trees sur fld.
Binghamton	7.2 NNE;RR NW	940	18 S2	80 oct.Trees N.
Bonnie Brae (Owasco) (NC)	1.7 SW;RR W	960	17	Cattle on fld.
Brizee (Pittsford)	2 E;RR N	422	25 S4	80 oct.Pole line S,NW.
Canastota	1.3 WSW;RR N	540	22 L1 S1	80 oct.
Carthage	1 E;RR NW	740	20 S1	80 oct.
Cayuga (Ithaca)	3.8 WNW;hwy E	1280	23 S1	80 oct,Pole line E.
CHEMUNG CO. (ELMIRA)	6.5 NW;RR S	951	40h R1 L5 S4	80,91,100 oct.
Cicero	0.5 NW;lake SW	416	21 S4	80 oct.
Colgate Univ. (Hamilton)	5.4 N;RR W	1178	25 S6	80 oct.
Commercial (Rochester)	7.3 WSW;RR S	570	18 S4	80 oct,Pole line W.
Community (Whitesville)	1.3 E;riv 1 N	2180	30	20-40' trees E,W,S.
Cortland	1.8 WSW	1144	30 S6	80 oct.Wooded ridge E.
Costa's (Painted Post)	2.7N NW;RR	960	16 S1	80 oct.Trees W,NW.
Crowner (Wellsville)	1 W;RR E	1506	22 S2	80 oct.Obsts sur fld.
(P) Dansville	1 NW;RR NE	662	40h R1 L3 S6	80 oct.Pole line N.
Eagle Airpark (Horseheads)	1.8 SSW;RR E	900	22 S1	80 oct.Trees S,W.
Fulton	2.6 NNE;rd W	469	40h L2 S4	80 oct.No sto.Lgts prior req.
Fulton Airpark	0.5 W;riv E	360	18 S6	80 oct.12' brush WNW.
Hancock (NC)	1.5 SSE;RR E	905	17	Hills SSE,NNW.
Hilton	2.6 WSW;RR N	325	16 S1	80 oct.3' fence E,S,SE.
Honeoye Falls Flying Svc.	0.8 SW;RR E	700	20 S4	80 oct.Pole lines NE,NNW.
Hornell	3.5 NNW;RR SW	1170	24 S6	80 oct.Wooded hills sur fld.
Hylan (Rochester)	6 S;RRs N,S,W	525	27 S6	80 oct.Trees E.
Ithaca	1.3 NW;inlet E	386	25h S6	80,91 oct.No storage.
Keyes-Oneonta (Oneonta)	1.5 W	1000	27 S4	80 oct.Obsts sur fld.
Kirkville	0.3 W;RR N,W	434	19 S1	80 oct.Pole line E.
Ladd's (Mexico)	0.6 W;RR N	383	20 S1	Ltd 73 oct.Pole line NE.
Martin(Montour Falls)	1 NE;RR W,E	460	13 S4	80 oct.
Mason (Geneva)	3.5 WSW;RR SE	790	19 S1	80 oct.Pole line S.
Meacham-Genesee (Rochester)	6 S;RR N	564	22 L S6	80 oct.Floodlgts in emerg.
Mercury (Hammondsport)	1 WSW;RR N	750	15 S2	80 oct,Hill W.
Elmira	2 SSW;RR E	890	16	Trees adj NE,S.
Elmira-Pine City (Elmira)	4.6 SW;hwy N	980	14	Trees WSW.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

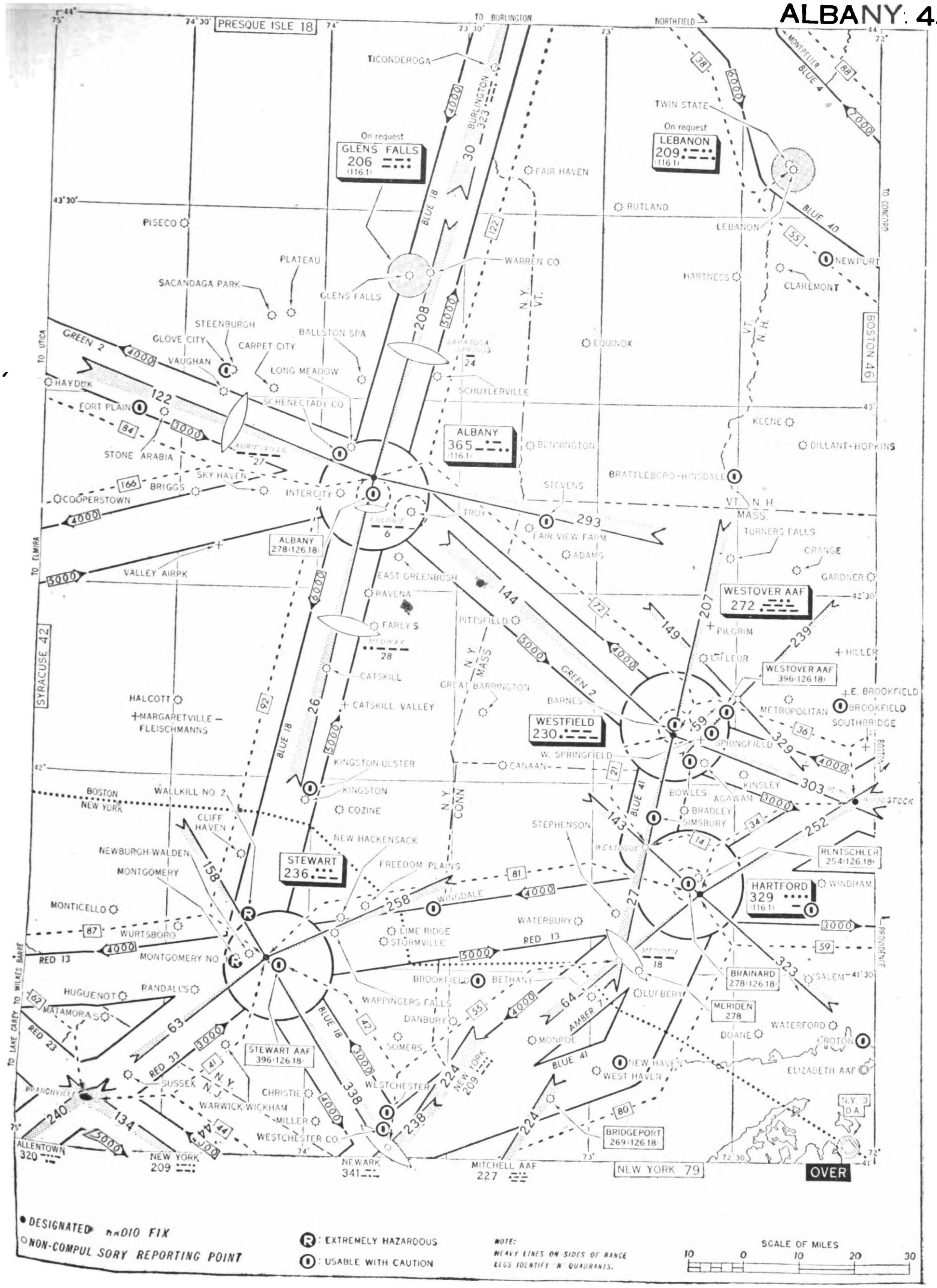
NEW YORK

AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Minoa (NC)	0.3 NW;RR SW	430	14	Trees E.
Moravia Air Haven	1 NW;RR E	730	20 S1	80 oct.S appch blocked.
Narrowsburg	0.6 NNE;RR E	700	18 S4	80 oct.Mts N,NE.
★ Newark Int,27A,CV-AZ	1.3 NNW;rd N,E	400	19 L3	Pole N.
Painted Post	4.4 SW;RR W	950	19 S2	80 oct.Trees E,W.
Parker (Palmyra)	2.8 S;RR N	540	15 S1	80 oct.
Penn Yan	1.1 S;lake W	850	20 S2	80 oct.
Pulaski	3 SE;riv N	500	18 S4	80 oct.Trees WSW.
Red Creek	0.8 SSE;RR N	355	18 S1	80 oct.
Richland	0.6 NE;RR SW	560	21 S1	80 oct.Hi-line S.
Ridgeway (Rochester)	3.7 W;canal ESE	530	18 S1	80 oct.Pole lines W,NW,SE.
(N) ROCHESTER	3.7 SW;riv S	549	44h R2 L5 S6	80,91 oct.ARPT OF ENTRY
(A) Rome AAF (A)	2.5 NE	473	63h R1 L5 S6	62,73,91,100 oct.JP-1.
Scottsville	1 N;RR W	600	10	Allway area: 1000 x 1000'.
Seneca Falls	2.2 SE	490	28 S2	80 oct.Obsts sur fld.
Sidney	1 WSW;RR SE	1012	24 S4	80 oct.Pole line S.
→ Syracuse	3.5 NNE;hwy W	416	65h	Closed.
→ " MUNICIPAL	5.9 WNW;RR N	396	50h R2 L5 S6	80,91 oct.Rdo rec req.
Tri-Cities (Endicott)	3.5 WSW;riv S	840	35h R1 L3 S6	80,91 oct.Wooded ridge W,ESE.
Utica	7.8 NW;hwy S	525	31 R1 L1 S6	80 oct.Twr W;hill N;trees E.
Warren Eaton (Norwich)	2.5 N;riv,RR E	1015	20 S1	80 oct.Wooded ridge E.
(F) Watertown	5.9 WNW;hwy N	325	50h L1 S4	80 oct.Bcn on req.ARPT OF ENTRY.
Schoharie Co.(Richmondville)	1.3 NE; RR N	1000	16 S1	80 oct. Trees E.
Smithport Inc.(Utica)	2 S	1150	24	Data not verified.
→ Rushville	2.5 NNE	1120	20 S1	Unverified.
PENNSYLVANIA				
ALLENTOWN-BETHLEHEM (Allentown)	4.6 NNE;RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only. Fld lgts prior req.
Barrett (Canadensis)	1.8 N;hwy SW	1450	18 S2	No fuel. Trees E.
Bellefonte	4.3 ESE;hwy N	1045	21 L3 S6	80 oct.
Bloomsburg	0.8 ESE;riv S	478	32 L3 S6	80,91 oct.Pole lines SW, E.
Chemung Valley (Athens)	1.8 NNW;riv E	850	38 S4	73 oct.
Cherry Spgs. (Corbett)	2.4 W	2265	18 S1	Ltd 80 oct.Trees W,SE, NW.
Cub Haven (Lock Haven)	1.7 E;RR S	550	25h S1	80 oct. Pwr line E.
Daleville	0.6 N;hwy W	1775	19 S4	80 oct.Hill S.
Danville	2.2 SW;RR N	480	22 S3	80 oct.Hill SE.
Easton	3.5 NNW;RR W	380	22 S6	73-91 oct.Pole line N.
East Penn (Andreas)	1.5 NE;hwy S	860	18 S6	73 oct.
Gordon	1.8 W;RR E	960	18 S2	80 oct. Hill S.
Lehighton	0.9 WSW;hwy NW	502	18 S2	80 oct. Trees WSW.
Mid Valley (Olyphant)(NC)	3 N;rd NE	1385	20	
Milton	0.8 S;RR W	450	24 S6	80 oct.Pole line SW.
Mt.Pocono,21,BJ-LG	1.5 NW;hwy NE	1925	26h L3 S1	80 oct.Pole line NE.
Mt. View (Nicholson)(NC)	4.8 ENE;crk NW	1280	21	50' trees S.
Reifenberg (Hazleton)	5.8 NNW;rd E	1146	21 S4	80 oct.
Scranton	7.2 WNW;hwy N	1150	24h L3 S6	73-91oct. Fld lgts prior req.
Selinsgrove	1.1 N;hwy E	450	25 S2	73,80 oct.Pole line E,W.
Shamokin (Elysburg)	2 SE;RRs W	1100	16 S2	80 oct.
Skyhaven (Tunkhannock)	0.3 S;RR N	639	20 S1	80 oct.Pole line,trees SW.
State College Air Depot	3.4 E;hwy S	1200	19 S4	80 oct.Poles adj W.
Stroudsburg-E. Stroudsburg (Stroudsburg)	2.5 NNE;hwy S	426	22 S4	80 oct.
Sunbury	2 NNE	443	37 R1 L1 S6	80 oct. No sto.
★ Tamaqua,Int,61B,CG-LG	2.2 WNW;hwy W	1260	30 L3	
Towanda	1.5 SSE;RR W	700	25h S1	80 oct.Pole line SW,NE.
Valley Airpark (York)	3 ENE;RR N	420	21 S4	80 oct.Poles SSE,NNW.
Wilkes-Barre-Wyoming Valley	3.5 NNE;riv S	546	35h R1 L3 S4	80,91 oct.
Williamsport	5.1 E;riv S	526	43h R1 L5 S6	80,91 oct. Lgts prior req.
East Scranton (Scranton)	7.3 ESE;lake E	1660	23	Trees S, N.
Hughesville	0.6 S;crk E	570	12 S2	No fuel. Trees NE.

42 SYRACUSE


PRESQUE ISLE 18
WATERTOWN
CARTHAGE
SCALE OF MILES
10 0 10 20 30
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.
CAN.
N. Y.
RICHLAND
PULASKI
LADD'S
BOONVILLE
UTICA
359
(116.1)
SYRACUSE
350
(116.1)
FULTON
FULTON AIR PARK
COMMERCIAL
ROCHESTER
278
HILTON
RIDGEWAY
ROCHESTER
206
(116.1)
RED CREEK
CICERO
SYRACUSE
BOSTON
CLEVELAND
208
178
135
225
47
70
118
55
BRIZEE
NEWARK
GREEN 2
4000
275
315
HYLAN
WEST HENRIETTA
272
97
5000
ROME AAF
396 (126.18)
KIRKVILLE
CANASTOTA
UTICA
SMITHPORT INC.
84
PARKER
AUBURN
298
MEACHAM-GENESEE
SYRACUSE MUN.
278
45
COLGATE UNIVERSITY
SCOTTSVILLE
HONEOYE FALLS FLY SER.
SENECA FALLS
MASON
RED 29
RUSHVILLE
DANSVILLE
212
(116.1)
On request
DANSVILLE
PENN YAN
MORAVIA
SCHOHARIE CO
RED 26
WARREN EATON
108
166
223
CORTLAND
CAYUGA
ITHACA
ELMIRA
385
(116.1)
MERCURY
MARTIN
HORNELL
RED 11
KEYES-ONEONTA
SIDNEY
BINGHAMTON
COSTA'S
CROWNER
PAINTED POST
TRI-CITIES
278
CHEMUNG CO
EAGLE VALLEY
CHEMUNG VALLEY
COMMUNITY
ELMIRA-PINE CITY
N. Y.
PA.
ELMIRA
BOSTON
NEW YORK
358
179
313
TOWANDA
71
CHERRY SPRINGS
BLUE 39
74
69
RED 29
191
LAKE CAREY
21
SKY HAVEN
RED 23
62
243
NARROWSBURG
87
WILLIAMSPORT
233
WILKES-BARRE
272
(116.1)
SCRANTON
R. 13
HUGHESVILLE
41
WILKES-BARRE
RED 8
KINGSTON
281
134
DALEVILLE
BARRETT
EAST SCRANTON
MT. POCONO
LOCK HAVEN
101
CUB HAVEN
WILLIAMSPORT
SUNBURY
353
(116.1)
On request
SUNBURY (VHF) (W)
108.3
ALLENTOWN
320
(116.1)
LAKE SUSQUEHANNA
MILTON
DANVILLE
REIFENBERG
BLOOMSBURG
LEHIGHTON
STROUDSBURG
63
345
197
11
17
285
284
107
BLUE
YELLOW
GREEN 3
PHILIPSBURG
224
BELLEFONTE
SUNBURY
SHAMOKIN
TAMAQUA
EAST PENN
72
47
RED 33
240
287
110
SLATINGTON
12
EASTON
MARTINS CREEK
RED 3
STATE COLLEGE
SELINSGROVE
RED 21
38
GORDON
290
ALLENTOWN-BETHLEHEM
60
TO BUFFALO
BUFFALO 39
ALBANY 43
TO ALBANY
TO STEWART
TO BRANCHVILLE
TO NEWBURGH
NEW YORK 209
PHILIPSBURG (VHF) 108.7
OVER
TO RO. ALTOONA
TO HARRISBURG
WASHINGTON 75
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

ALBANY: 43


PRESQUE ISLE 18
TO BURLINGTON
NORTHFIELD
TICONDEROGA
On request
GLENS FALLS
206
(116.1)
BURLINGTON
323
30
BLUE 18
4000
FAIR HAVEN
On request
LEBANON
209
(116.1)
TWIN STATE
MONTPELIER
BLUE 4
7000
6000
38
88
RUTLAND
PISECO
PLATEAU
SACANDAGA PARK
GLENS FALLS
WARREN CO
122
208
5000
N.Y.
VT.
LEBANON
BLUE 40
55
NEWPORT
HARTNESS
CLAREMONT
TO CONCORD
TO UTICA
GREEN 2
4000
STEENBURGH
GLOVE CITY
CARPET CITY
BALLSTON SPA
VAUGHAN
LONG MEADOW
SARATOGA SPRINGS
24
EQUINOX
VT.
N.H.
BOSTON 46
HAYDUK
SCHUYLERVILLE
SCHENECTADY CO
FORT PLAIN
84
3000
122
AURIESVILLE
27
ALBANY
365
(116.1)
BENNINGTON
KEENE
DILLANT-HOPKINS
STONE ARABIA
166
BRIGGS
SKY HAVEN
INTERCITY
COOPERSTOWN
BRATTLEBORO-HINSDALE
STEVENS
VT. N.H.
MASS.
TROY
293
COLONIE
6
FAIR VIEW FARM
ADAMS
TURNERS FALLS
ORANGE
GARDNER
ALBANY
278 (126.18)
VALLEY AIRPK
EAST GREENBUSH
RAVENA
WESTOVER AAF
272
42°30'
TO ELMIRA
SYRACUSE 42
FARLYS
MIDWAY
28
PITTSFIELD
144
72
149
207
PILGRIM
239
LEFLEUR
HILLER
WESTOVER AAF
396 (126.18)
CATSKILL
HALCOTT
MARGARETVILLE-FLEISCHMANNS
CATSKILL VALLEY
GREAT BARRINGTON
N.Y.
MASS.
BARNES
WESTFIELD
230
E. BROOKFIELD
METROPOLITAN
BROOKFIELD
SOUTHBRIDGE
BLUE 18
92
26
5000
59
36
329
SPRINGFIELD
W. SPRINGFIELD
CANAAN
21
KINGSTON-ULSTER
KINGSTON
COZINE
BOSTON
NEW YORK
WALLKILL NO. 2
CLIFF HAVEN
N.Y.
CONN
BOWLES
AGAWAM
3000
KINSLEY
303
WOODSTOCK
BLUE 41
143
BRADLEY
SIMSBURY
34
252
STEPHENSON
NEW HACKENSACK
NEWBURGH-WALDEN
MONTGOMERY
STEWART
236
FREEDOM PLAINS
81
158
258
WINGDALE
4000
CATALOGUE
14
RENTSCHLER
254 (126.18)
HARTFORD
329
(116.1)
WINDHAM
27
MONTICELLO
87
WURTSBORO
LIME RIDGE
STORMVILLE
WATERBURY
RED 13
3000
59
PROVIDENCE
MERIDEN
18
BRAINARD
278 (126.18)
323
SALEM
41°30'
MONTGOMERY NO
BROOKFIELD
BETHANY
LUFBERY
HUGUENOT
RANDALL'S
62
MATAMORAS
WAPPINGERS FALLS
DANBURY
55
42
64
AMBER 7
MERIDEN
278
WATERFORD
DOANE
GROTON
TO LAKE CAREY TO WILKES BARRE
RED 23
63
RED 33
STEWART AAF
396 (126.18)
SOMERS
MONROE
BLUE 41
NEW HAVEN
WEST HAVEN
ELIZABETH AAF
41
N.Y.
N.J.
SUSSEX
CHRISTIE
WARWICK-WICKHAM
MILLER
WESTCHESTER
224
NEW YORK
209
N.Y. 3
D.A.
BRANCHVILLE
240
134
44
WESTCHESTER CO.
338
238
224
80
BRIDGEPORT
269 (126.18)
ALLENTOWN
320
NEW YORK
209
NEWARK
341
MITCHELL AAF
227
NEW YORK 79
74°
73°
72°30'
72°
41°
OVER
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R : EXTREMELY HAZARDOUS
O : USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO — CONNECTICUT

LOCATION	FREQ IDENT.	STA. CLASS, BEAR & DIST.	FREQS. GUARD HRS OF OPER., REMARKS
BRAINARD (Hartford)	278 (126.18)	C	(4), 131.9, 126.18
BRIDGEPORT ARPT	269 (126.18)	C	(4), 116.1, 131.9, 126.18
E.HARTFORD (Rentschler)	254 (126.18)	CI	(3) only
HARTFORD (Brainard)	329(HT)(116.1)	SBMRAZ-VDT, 323°, 2.3	(3), 116.1
MERIDEN FM	(- - -)	FM, 244°, 17.6	Hartford
MERIDEN ARPT.	278	CI	3105,4495 (days)
MASSACHUSETTS			
WESTFIELD (Barnes)	230 (WJ)	BMRLZ-DT, 270°, 1.7	(4)
WESTOVER (Chicopee Falls)(Army)	272 (DO)	BMRAZ	(3)(GCA)
Westover Field	396 (126.18)	CA(ILS), 239°, 2.7	(3);126.18(Apo control)
NEW HAMPSHIRE			
LEBANON	209(LP)(116.1)	MHVT	(4), 116.1
NEW YORK			
ALBANY	365(AZ)(116.1)	SBRAZ-VDT	(3), 116.1
Albany Airport	278 (126.18)	C, 196°, 3	(4),126.18,116.1,140.1, 131.9
AURIESVILLE FM	(- - - -)	FM, 302°, 27.2	Albany
COLONIE LFM	(- - -)	LFM, 206°, 5.7	Albany
GLENS FALLS	208(GB)(116.1)	MHVT	(4), 116.1
MEDWAY FM	(. . - - -)	FM, 208°, 27.6	Albany
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
SARATOGA SPRGS FM	(-)	FM, 280°, 24	Albany
STEWART FIELD	236 (SW)	BMRLZ-DT	(4)
Stewart Field	396 (126.18)	CA, 125°, 2.5	(3), 126.18 (7-23

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in MCS, Compass Locators in ital)

LOCATION	LOCALIZER	G.P.	APPR. BEAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATOR)		
WESTOVER, MASS.	109.9	333.8	239°Rwy	IM (.49)	MM ..... (.79)	OM -- (5.38)
					HHR	CML
WESTOVER, MASS.	109.5	332.6	59°Rwy	IM (.02)	MM ..... (.72)	OM -- (4.47)
					HHR	CML

S-Simultaneous Range and Voice. W-Without Voice Z-VHF Station Location Marker at Range Station
(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bethany	1.3 N,hwy E	680	21 L2 S6	80,91 oct.No bcn.Lgts
Bradley (Windsor Locks)	2 W,hwy E	171	50h	Antenna S. prior req
BRAINARD(Hartf'd)	2.8 SE,RR W	19	48h R2 L5 S6	80,91,100 oct.Dike E,N.
(N,P) BRIDGEPORT	3.5 ESE	9	48h R1 L5 S4	80,91 oct.
Brookfield	0.3 S,RR,riv E		10 S6	80 oct.No sto.Data not verified
Canaan	1 N,RR W	680	24 S6	80,91 oct.No sto.Pole line SW.
Danbury	2.5 SW,RR N	454	44h S6	80 oct.Poleline WSW, SSE.
Doane (Essex)	1.2 SW,RR E,N	30	21 S6	80 oct.No sto.Trees N, NW.
Groton	2.8 SE,RR W	10	50h	
Kinsley (Somers)	2.5 NNW,RR W	200	19 S4	80 oct.
Lufbery (Wallingford)	0.5 WSW,RR E	80	22 S6	80 oct.No sto.Stacks S, N.
Meriden	2.7 SW,RR E	102	35 R1 L3 S6	80 oct.Hi-line W,S.
Monroe	0.7 SSE,rd E,W	620	20 S6	80 oct.
New Haven	3.5 SSE,crk W	4	43h S6	80,91,100 oct.No sto. Pole line NW.
Rentschler (East Hartford)	1 S,riv W	40	58h R1 L5 S6	80,91,100 oct.
Salem	2.1 E,lake NNE	400	21 S6	80 oct.
Simsbury	2.6 NNE,RR W	170	17 S6	80 oct.Trees SE.
Stephenson(Bristol)	1.5 ESE,RR N	240	18 S6	80 oct.
Waterbury(Plymouth)	2.6 S,RR E,W	843	20 S6	80 oct.
Waterford	1.7 N,RR SSE	60	20 S6	80 oct.Trees,hill S.
West Haven	2.7 SW,hwy E	15	18 S4	80 oct.No sto.Poleline E,W blckd.

L-hard surface runways. R-rcbn location. L-lighting facilities. S-servicing. (See page 1111) NC (not charted). ⟹ NEW OR REVISED DATA.

ARPT. — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Windham	3.5 NNW,hwy S	238	44h S1	80 oct.Trees NE,ENE.
MASSACHUSETTS				
Adams	1.3 SSE,RR W	1400	18 S1	80 oct.
Agawam Land & Seaplane Base	0.5 S,riv E	50	16 S6	80 oct.Pole line SE.
DARNES(Westfld)	3 NNE,RR W	268	50h R1 L5 S6	80, 91 oct.
Bowles (Agawam)	2.4 WSW,trk E	190	40 S4	80 oct.Poleline S,SSE.
Brookfield	1 W,RR SW	680	20 S4	80 oct W,NW.
Fair View Farm (Williamstown)	4 SW,riv E	954	23 S1	80 oct.Poleline ENE Hill NNE.Lgt acft only
Gardner	2 SW,hwy N	1020	18 S4	80 oct.
Great Barrington	2 WSW,riv N	726	28 S6	80,91 oct.Obst sur fld
LaFleur (Northampton)	1.2 ENE,riv SW, N	120	26 S4	80 oct.No sto.
Metropolitan(Palmer)	5 N,riv W	400	19 S6	80 oct.Hill N
(P)Orange	1.5 SE,hwy SE	555	50h S1	80 oct.Poles NE.
Pittsfield,3B,AZ-BW	2.4 WSW,hwy NW	1140	27 L3 S1	80 oct.Pole line N.
Smiths Ferry (Holyoke)(NC)	4.5 N	100	95	Obsts NE,SW.
Springfield	2.3 NE,RR S	205	26 S6	80,91 oct.Bldgs W.
Stevens(N Adams)	2.8 WSW,RR N	630	20 S4	80 oct.No sto.Poleline
Turners Falls (Montague)	4.2 N	350	33 S6	80,91 oct.Wooded E ridge SE,SW.
(A)Westover (Chicopee Falls) (A)	3.8 NNE,riv W	244	70h R3 L6 S6	73,91,100 oct.No sto.
NEW HAMPSHIRE				
Claremont	1.3 W,riv NE	520	28h S2	80,91 oct.Wooded ridge
Dillant-Hopkins (Keene)	2 S,riv,RR W	481	40h S6	80 oct. NNE.
Hinsdale-Brattleboro (Hinsdale)	2.7 NW,RR W	360	18 S4	80 oct.Lndg flares prior req.
Keene Arpk.	3 NW,RR W	500	21 S6	No fuel or sto,100 hill
Lebanon	3.3 WSW,RR N	579	40h R1 L5 S1	80 oct.Rdo repair SE.
Newport	2 NNW,RR W	780	26 S4	80 oct.Pole line E.
NEW JERSEY				
Sussex	1.2 WSW,RR S	420	25 S1	80 oct.200 knoll NNE.
NEW YORK				
Accord (NC)	0.7 N,RR S	260	19	Trees S,NE,SW.
ALBANY	6.9 NNW,riv N	271	35h R2 L5 S6	80,91,100 oct.ARPT OF
(P)Ballston Spa	3 N,RR E	433	40h L5 S6	80,91 oct. ENTRY.
Briggs(Carlisle)	0.6 SE,RR W	1320	12	
Carpet City (Amsterdam)	6 N,rd NW	887	18 S6	80 oct.Use strips only
Catskill(Cairo)	2 E,hwy S	300	16	Trees sur fld.
Catskill Valley (Catskill)	1.5 SW	100	23 S3	80 oct.Data not verif.
Christie(New City)	1.5 N,RR E	150	16 S4	80 oct.Pole line SW
Cooperstown	1.4 NNW,RR SE	1660	16 S4	80 oct.Pole S.
Cozine(Rhinebeck)	0.5 SE,RR W	200	20 S1	87 oct.Poleline W.
Cliff Haven (Accord)	1.1 W,RR S	260	16 S1	80 oct.
East Greenbush	0.8 NW,RR W	260	38 S6	80 oct.Pole line N
(A)Elizabeth (Fisher's Island)(A)	W end Island	7	29h L4	No beacon.
Farly's (New Baltimore)	3 S,RR W	10	20 S1	80 oct.Trees N.
* Ft.Plain Int,40A,	3 NNW,RR NE	680	35 L3	(CV-AZ)
Freedom Plains (Billings)	2 W,rds N,E	340	10 S1	80 oct.Pwrline S.
Glens Falls,18,LG-UL	2.6 NW,rd S	474	36h R1 L3 S6	80 oct.
Glove City	1.5 NE,RR S	860	17 S1	80 oct.(Gloversville)
Halcott(Halcott Ctr)	1 N		10 S1	80 oct.Data unverif.
Hayduk(Herkimer)	0.6 SSW,RR N	400	12 S4	Ltd 80 oct.Poleline E.
Huguenot(Port Jervis)	3.3 NE,RR SE	480	21 S6	80 oct.Trees SW.
Intercity	3.6 SSE,RR NE	340	20 S4	80 oct (Schenectady)
Kingston	1.5 NW,RR S	150	17 S4	80 oct.Pole line NW
Kingston-Ulster (Kingston)	2.7 N,RR E	160	30 S4	80 oct.No sto Pole line E.
Lime Ridge (Beekman)	1.3 SE,RR S	420	16 L2 S6	80 oct.All lgts prior request.
(Northampton) (Mass.)	9 N	120	16 S3	No sto. Data unverf.

ARPT.— CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Long Meadow (Rexford)	1.5 NE,RR NW	380	17 S1	80 oct.Poles NNE RR S
Miller (Nyack)	1.8 WNW,riv E	70	17 S6	80 oct.No sto.Poleline SW.
Montgomery	1 WSW,riv W	393	22 S6	80 oct.Trees N,brushE
(A)Montgomery U.S. Mil.Academy #1	2 SW	355	35h	CLOSED. (A)
Monticello-Sullivan Co.	1.4 N,RR E	1500	21 S1	80 oct.Windmill SSE.
Newburgh-Walden (Walden)	2.2 SSW,riv W	404	32 S6	73,80 oct.Obsts sur fld.
New Hackensack	0.5 W	156	35h	Obsts NE.
Piseco	0.5 N,hwy SW	1710	19 S2	Ltd 80 oct.Trees, brush NNE.
Plateau(Northv'l)	2.5 E,riv ESE	1040	24 S1	Ltd 73,80 oct.Trees S.
Randall's (Middletown)	1.8 ESE,RR NW	520	20 S1	80 oct.
Ravena	1.2 N,riv 2 E	180	14 S2	80 oct.Lgt acft only.
Rockland(New City)	1 SSE,RR E	240	12	Trees W,hwy E.
Sacandaga Park (Northville)	1 SW,RR W	770	13 S1	80 oct.Pole line WSW.
(P)Schenectady Co.	3 N,RR SE	362	50h L5 S6	80, 91, 100 oct.
Schuylerville,Land & Seaplane Base	2.5 S,riv E	100	29	Trees N,S.
Selkirk (NC)	2.7 E,riv E	160	22	Trees N.
Sky Haven(Delanson)	0.9 NW,RR SE	1100	14 S2	80 oct.ESE,W blocked
Somers	0.6 SE,RR E,S	563	17 S4	80 oct.No sto.
Starhaven(Middletown)	1.3 NW,RR SW	750	29	Trees SW,SE,NW.RR N
Steenburgh Avia. Svc.(Gloversv'l)	1.5 ENE,RR N	900	8 S1	80 oct.
(A)Stewart(Newburgh)	4 W,hwy N	463	61h R2 L5 S6	91,100 oct.(A)
Stone Arabia (Fort Plains)	3.6 ENE,hwy E	880	18	Pole line NNW.
Stormville	1 ENE,RR S	350	23 S4	80 oct.No sto.Trees NE
* Ticonderoga Int, 22, LG-UL	2.7 NNE,rd E	210	32 L3	Obsts sur fld.
Troy	2 SSE,riv W	327	30 L4 S6	73,91 oct.Trees NW.
Valley Air Park (Middleburg)	1.5 NNW	635	16	Data not verified.
Vaughan(Johnstown)	1 E,hwy W	760	18 S1	Ltd 80 oct.Trees W.
(A)Wallkill, U.S.Mil. Acad. #2 (A)	3 NW,riv E	340	35h	CLOSED.
Wappingers Falls	0.9 SE,rd S	152	21 S4	80 oct.Pole line E,W,S
Warren Co.	2.4 NNE,rd N	325	40h	(Glens Falls)
Warwick-Wickham	4.5 NE,RR W	540	24 S4	80 oct.Ridge N
Westchester(Armonk)	0.5 SSE,riv E	380	18 S6	80,91 oct.Trees sur fld.
(P)Westchester Co. (White Plains)	4 NE,lake W	435	50h L5 S6	80,91 oct.No sto.All lgts prior req.FEE
White(Bedford)(NC)	3.6 SE,hwy E	475	12	
Wingdale	1.5 NE,RR W	400	25 S4	80 oct.No sto.ROUGH
Wurtsboro	2 NE,RR E,SE	560	26 S6	80 oct.Obsts sur fld.
PENNSYLVANIA				
Matamoras	0.5 SSE,riv SE	450	18h L4 S6	80 oct.No bcn.Lgts prior req.
VERMONT				
Bennington	2.5 WNW	830	13 S1	80 oct.470 hill WNW
Equinox(Manchester)	1 E,riv E,N	700	18 S6	80 oct.Poleline,mtn E
Fair Haven	1.5 N	370	20 S2	80 oct.Hills sur fld.
Hartness	3.8 NNW,riv E	570	20 S6	80 oct.(Springfield)
Rutland	5.8 SSE,hwy W	784	40h L3 S4	80 oct.No sto.All lgts prior req.
Twin State (White River Junction)	1 SW,riv,RR E	540	19h S6	80 oct.Hill NW
Margaretville - Fleischmans (N.Y)	0.2 S,riv W		21 S4	80,91 oct.No sto.Pole line NE(Margaretville)
East Brookfield (Mass.)	0.5 W	650	15 S3	80 oct. Data unverified.
Southbridge(Mass.)	1 N	700	26 S4	Data unverified.
West Springfield(Mass.)	11.5 N,riv E	65	19 S6	Data unverified.
Miller(New Braintree) (Mass.)	6.5 NNW of N Brookfield	650	21 S3	Data unverified.

RADIO

MAINE

LOCATION	FREQS. IDENT.	STA. CLASS, BEAR. & DIST.	FREQ.,GUARD HRS. OF OPER.,REMARKS
BRUNSWICK NAS	322 (NSM) 206(PW)(116.1)	SRAZ: 84°,4	(3)
PORTLAND		BMRLZ-VDT,149°, 2.2	(4), 116.1
YARMOUTH FM(Navy)	(- - -)	FM,264°,11.4	Brunswick NAS

MASSACHUSETTS

BEDFORD (Navy)	522 (DBH)	MH	Oper cont.
Bedford AAF	212 (126.18)	CA	(3), 126.18
BOSTON (Logan)	263(BW)(116.1)	SBRAZ-VDT,238°, 2.2	(3), 116.1
BRANT ROCK FM(Navy)	(- -)	FM, 141°, 20.2	Squantum NAS
EASTON FM (Navy)	(- - -)	FM, 218°, 17.7	Squantum NAS
EVERETT LFM	(- - - -)	LFM, 298°, 4.2	Boston
FRANKLIN FM	(. . - - -)	FM, 238°, 28.7	Boston
LOGAN (Boston)	278 (118.7) (126.18)	AC	(4), 131.9,118.7, 126.18
PEABODY FM	(-)	FM, 31°, 9	Boston
SOUTH BOSTON LFM	(- - -)	LFM, 238°, 4.7	Boston
SOUTH WEYMOUTH (Navy)	420 (NFR)	BMRLZ	(3), 142.74 days on req.
South Weymouth NAF	3295 (142.74)	CN, 82°, 3.1	(3), 142.74, (8-1630,Mon.-Fri.)
SQUANTUM (Navy)	472 (NZW)	BMRLZ	(3),142.74 flt opers.
→ Squantum NAS	323 (142.74)	CN, 321°, 3.5	3105,4495,142.74 (8-30 min before sunset)

NEW HAMPSHIRE

BOSCAWEN FM	(- - - -)	FM, 332°, 14.2	Concord
CONCORD	251 (CN)(116.1)	BMRLZ-VDT,327°, 2.1	(4), 116.1
GRENIER(Manchester) (Army)	338 (DUR)	SBRAZ	
Grenier Field	278 (126.18)	CA(ILS),352°,4	(3), 126.18

RHODE ISLAND

CHARLESTOWN NAAS	3295 (142.74)	CN	3105;142.74 (GCA)
GREENE (Providence)	278 (126.18)	C	(4),116.1,131.9, 126.18
PROVIDENCE(Greene)	347 (PR)	BMRLZ-DT,480,3.5	(3)
QUONSET POINT(Navy)	356 (NCO)	BMRLZ	3105; 142.74
Quonset Point NAS	227(142.74) (126.18)	CN, 339°, 2.3	(3);142.74,140.58, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs., Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & WHERE HEARD (ALSO COMPASS LOCATORS)			
GRENIER, N.H.	109.5 --- 45L	332.6	352°Mag	IM (.02)	MM (.71)	OM (5.00)	MMR 201 ---(.71) OMR 219 ---(5.00)

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station.
(3)-3105,4495,6210 kcs ; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

CONNECTICUT

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Fostoria (Stonington)	1 NE,RR S	5	18 S4	80 oct.Lgt acft only
Plainfield	1.5 SSW,RR E	160	21 S6	80 oct.
* Putnam Int,14,LG-BW	1.7 WSW,riv E	460	22 L3	Pole line N;poles NE

MAINE

Biddeford	2 SSW,RR NW	110	22 S2	80 oct.Poleline SE.
(N)Brunswick NAS(N)	1.5 SE,RR N	77	60h RI	INACTIVE
Douglas (Brunswick)	3.5 W,RR SE	170	15	
Hilltop (West Buxton)	0.8 WSW,RR S	300	22 S4	80 oct.Poleline ESE

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (See page xiii) NC (not charted). → NEW OR REVISED DATA.

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Merrymeeting (Bowdoinham)	1 SSE,riv E	60	18 S1	80 oct.Trees N, S.
New Meadows (Bath)	2.3 WNW,RR S	12	60	Beach N,S appchs blocked.
PORTLAND	2 W,riv E	60	43h R1 L5 S6	80, 91 oct.
Port of Maine (South Portland)	1.8 SSW,RR E	40	22 S3	80 oct.Poleline SSE, NE, SW.
Riverside Airpark (Brunswick)	1 WNW,RR S	60	23 S1	80 oct.Trees NNW. Hwy S.
(P)Sanford	4 SE,hwy N	243	60h L5 S6	80, 91 oct.
Scarboro	2 W,RR SSE	20	25 S2	80 oct.
Kennebunk	2 S,rd E	120	20 S2	80 oct.Trees S.Data not verified.
Riverside(Brunswick)	1 WNW,riv E	60	20 S2	80 oct.Data unverified
Stover (Freeport)	4 NNW	200	12 S2	80 oct.Data unverified

MASSACHUSETTS

Ames (Brockton)	3 WSW,RR W	120	20 S6	73 oct. RR S.
Auburn	2 SW,RR W,E	700	15	Lgt acft only.
Ayer	1.5 NW,riv W	268	52h	
(A)Bedford AAF (A)	1 S	128	50h R2L5 S6	80, 100 oct.
Beverly CGAF	3 NW,lake E	108	50h L5 S1	80,91 oct.Svcg mil. acft on req.
Bolton (Clinton)	2.3 NE,RR W	400	17 S6	80 oct.Trees around fld. RR S.
Boston-Metropolitan (Canton)	1 W,riv V	50	21 S6	80, 91 oct.
Brockton	2 S,hwy E	128	15 S6	80 oct.Poles E,W.
Cape Cod (West Barnstable)	2.1 SW,lake SW	100	25 S2	80 oct.
Country Club(Wareham) (NC)	1.3 E,riv S	25	17	Pole line,trees N.
Chatham	1.7 WNW,hwy S	66	14 S4	80 oct.Pole line N.
East Thundertown(Orleans)	5 N	45	16 S3	Data unverified.
Edgartown	2 S,rds E,NW	20	30 S4	80 oct. No sto.Pole
Falmouth (NC)	2.5 NE	40	18 S4	80 oct.Data not verified.line NE
Fitchburg	2.5 SE,bet RRs	334	45h S6	80 oct.Knolls,dike S.
Franklin-Norfolk (Norfolk)	2.5 WNW RR SSE,NW	140	20 S6	80 oct.Pole line S.
Grafton (No.Grafton)	0.7 SSW,riv N	450	30 S6	80 oct.Wooded hill S
Groton	4.6 WNW,RR W	280	28 S6	80 oct.
Haverhill	2 NNE,lake S	125	17 S6	80 oct.Stack S;pole line NW.
HYANNIS	1.2 N,RR E	56	41h S4	80, 91 oct.
King (Taunton)	4.5 ESE,RR N	45	26 S6	73 oct.Poleline NNE.
(P)LAWRENCE	2.5 ENE,lake E	155	40h L5 S6	91 oct. Pole line SSE.
Leicester	2 N	1140	15h S4	80 oct.Reservoir SE.
(A,N) LOGAN (Boston)	1.5 E in harb.	12	40hR2 L4 S6	80,91,100 oct.Rdo req. TIVE: Rdo req.
Mansfield	2 SSE,RR NE	124	25 S2	80 oct. Poleline NW, NE.
Marlboro	2.4 E,RR WSW	265	15 S2	80 oct.Ridge SSE,NNW
MARTHA'S VINEYARD (Vineyard Haven)	4.3 S,rd S	68	38h L5 S2	80,91 oct.Lgts prior req.Obsts SE side.
Mendon	0.3 S,lake W	450	18 S4	80 oct.No sto.Pole line N,NW.
Myricks	0.8 N,RR SW	65	20 S4	80 oct.Pole line S.
NANTUCKET	2.6 SE,rd N	47	40h L S6	80 oct.Port.rnwy lgts.
(P)New Bedford	2.5 NNW,RR W	78	50h	RR S.
Norwood	1.8 E,riv E	55	40h S1	80, 91 oct.
Oak Bluffs	0.8 SW,rd W	20	20 S4	80 oct.Trees E,SE.
(N)Otis NAAS(Falmouth)	9 NNE	126	70h	INACTIVE. (N)
Plum Island (Newburyport)	2.3 SE,riv N	15	25 L1 S6	80 oct.Pole line E.
Providence (Seekonk)	2.1 ESE,rd NE	25	17 S4	80 oct.Pole line NNE

MASSACHUSETTS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Shawsheen Pines (Billerica)	2.7 E,RR NE	110	17 S4	80 oct.No sto.Trees NE,E,SE.
Sherman Memorial (Mansfield)	3 SSW,RR W	130	17 S1	73 oct.Trees sur fld
(N)South Weymouth NAF	1.5 SSE,RR W	152	45 R2 L5 S4	100 oct.B-2 lgts.(N)
(N)Squantum NAS (N)	0.8 W,bay N	10	41h R2 L5 S4	91,100 oct.No sto.No ngt flying.
Westboro	1.9 WNW,hwy N	310	15 S6	80 oct.Rnwy data unverified.
Wilkins (No.Attleboro)	2 NE,lake NW	200	18 S6	80 oct.Poleline ESE
WORCESTER	3.5 W,RR SE	1009	55h	
Spencer	2 NE	1100	15	Data unverified.
Plymouth	SSE	149	25	Data unverified.
Revere	1 N	20	21h S4	80,91 oct.Data unverif.
Richardson (Dracut)	2 NNW Lowell	115	15 S4	Data unverified.

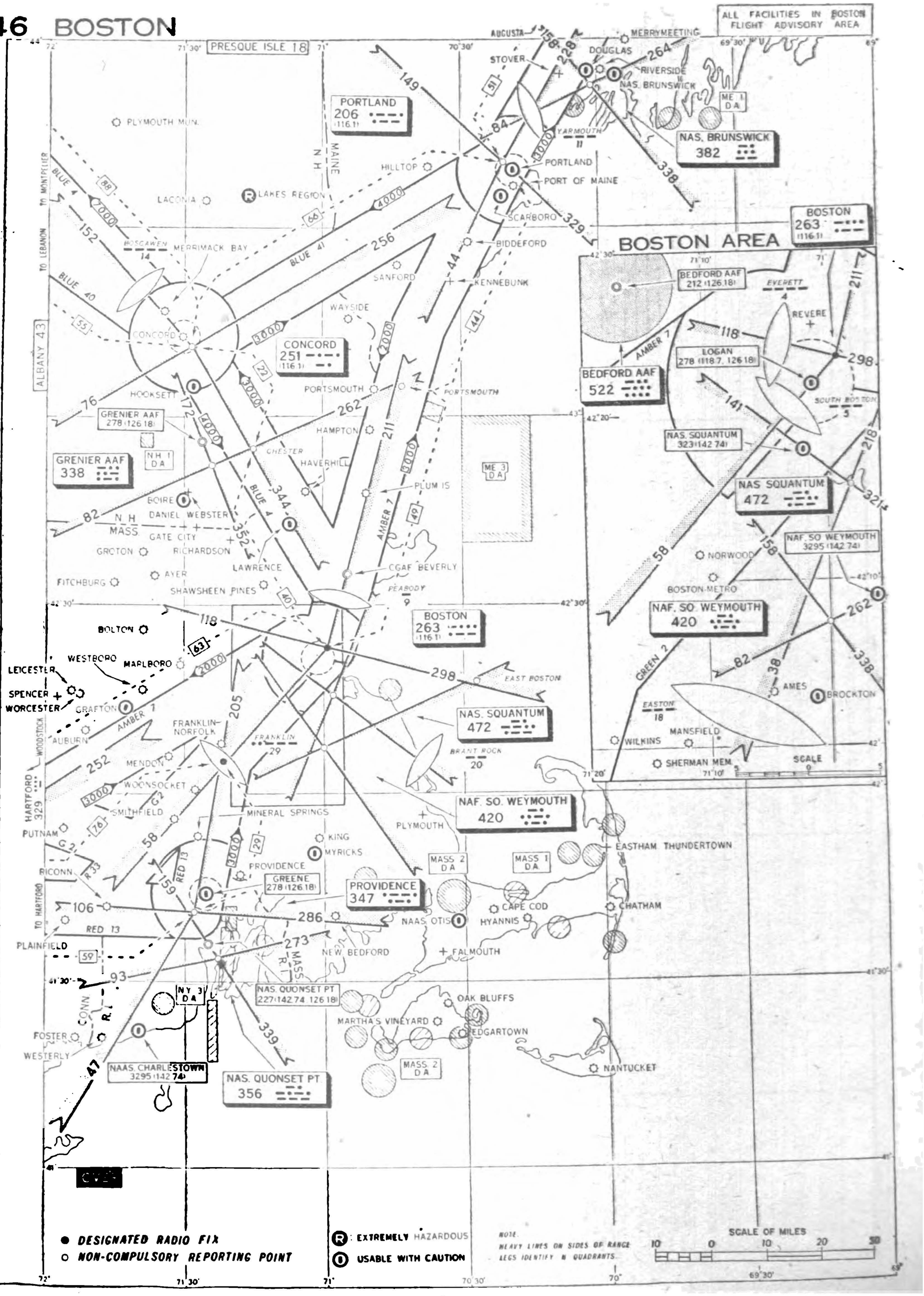
NEW HAMPSHIRE

Boire (Nashua)	2.8 WNW,RR N	185	20h L3 S6	80 oct.Lgts prior req.
CONCORD	1.5 E,riv W	346	40h R1 L5 S6	80,91 oct. Pole S.
Daniel Webster (Nashua)	3.5 NW,riv E	192	24 S6	80,91 oct.Data not verified.
(A)Grenier (Manchester)	4 S,RR E	230	70h R3 L5S6	73,91,100 oct. (A)
Hampton	1.6 N,RR W	80	22 S5	80 oct.No sto.Trees N, S.
Hooksett Land & Seaplane	2 S,RR E	187	32 S6	80 oct. No sto.
Laconia	3.5 NNE; RR S	536	35h L5 S6	73,80,91 oct.Fld lgts prior req.
Lakes Region (Wolfeboro)	2.6 W,RR E	580	14 S1	80 oct.No sto.
Merrimack Bay (Concord)	5 NNW,RR W	260	15 S2	80 oct.Poleline S.
Plymouth Mun.Arpk.	3.5 WNW,RR N	506	18 S2	Ltd 80 oct.Poleline N
(P)Portsmouth	3 W,bay W	94	50h L5 S6	80,91 oct.
Wayside(Sommersworth)	2.4 W,RR N	200	12 S2	80 oct.Trees SSE.
Gate City (Nashua)	4 S		23 S4	80 oct. Data unver

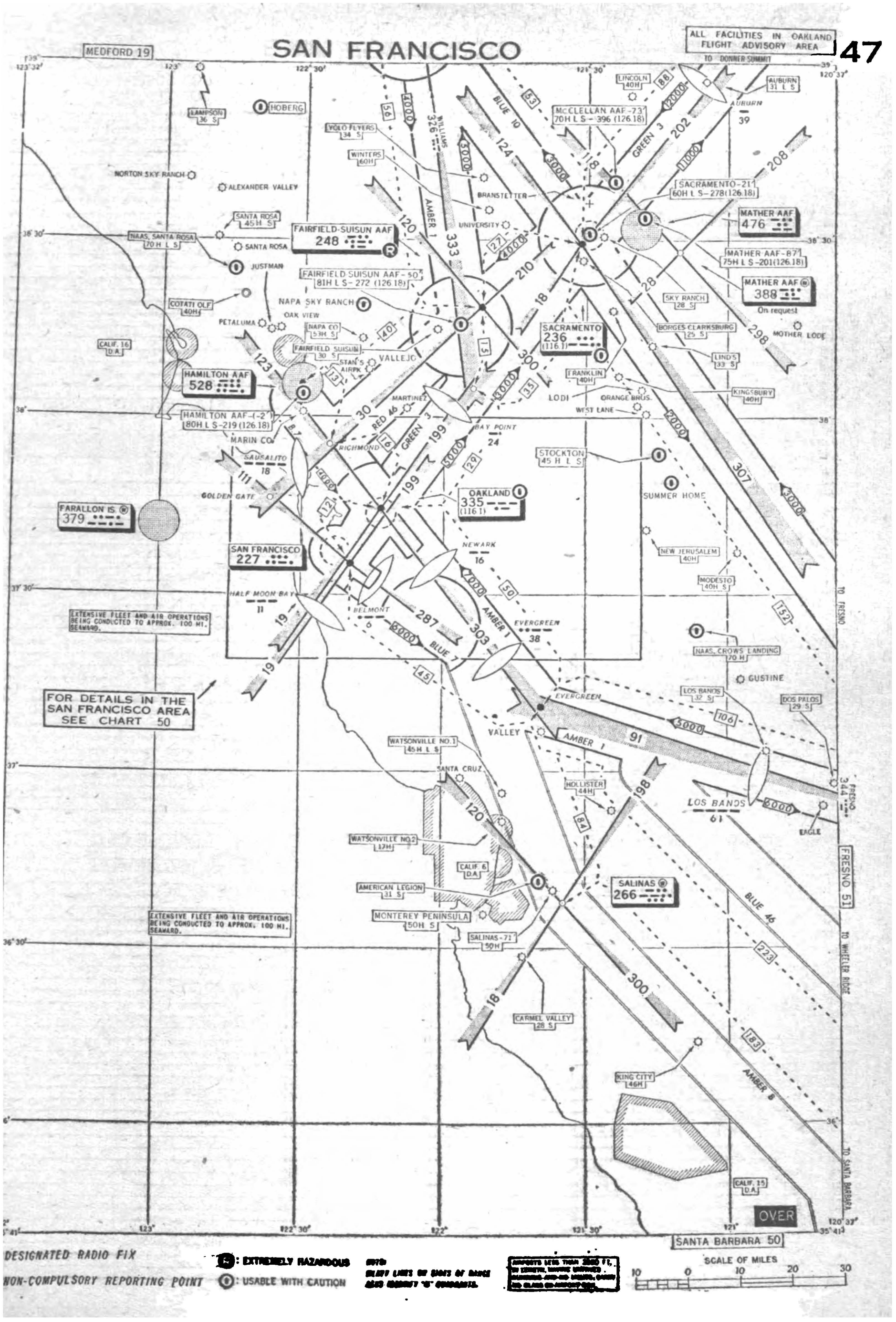
RHODE ISLAND

(N)Charlestown NAAS (N)	1.9 SW,hwy N	32	58h R1 L5 S1	91, 100 oct. No bcn.
Greene (Providence)	7 S,RR W	53	41h R2 L5 S6	80, 91 oct.
Mineral Springs (Providence)	4.6 NW,hwy E	240	11 S4	73 oct.No sto. Trees surround field.
(N)Quonset Point NAS(N)	16.5 S Prov'd.	14	60hR2L5 S6	91, 100 oct.
Riconn (Greene)	1.8 WNW,RR S	390	15 S4	80 oct.
Smithfield	1 NE,RR W	400	17 S6	73 oct.
Westerly	2.4 SSE	81	40h	Riv. E.
Woonsocket	2.5 E,	400	20 S2	80 oct.Riv WSW

BOSTON


ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
BOSTON AREA
PRESQUE ISLE 18
PORTLAND 206 (116.1)
NAS. BRUNSWICK 382
BOSTON 263 (116.1)
CONCORD 251 (116.1)
GRENIER AAF 338
BEDFORD AAF 522
LOGAN 278 (118.7, 126.18)
NAS. SQUANTUM 472
NAF. SO. WEYMOUTH 420
PROVIDENCE 347
BEDFORD AAF 212 (126.18)
GRENIER AAF 278 (126.18)
GREENE 278 (126.18)
NAS. SQUANTUM 323 (142.74)
NAF. SO WEYMOUTH 3295 (142.74)
NAAS. CHARLESTOWN 3295 (142.74)
NAS. QUONSET PT 227 (142.74 126.18)
NAS. QUONSET PT 356
NAAS. OTIS
NAAS. CHARLESTOWN
AUGUSTA
STOVER
MERRYMEETING
DOUGLAS
RIVERSIDE
NAS. BRUNSWICK
ME 1 DA
YARMOUTH
PORTLAND
PORT OF MAINE
SCARBORO
BIDDEFORD
KENNEBUNK
SANFORD
WAYSIDE
PORTSMOUTH
PLYMOUTH MUN.
LACONIA
LAKES REGION
HILLTOP
MERRIMACK BAY
HOSCAWEN
CONCORD
HOOKSETT
HAMPTON
CHESTER
HAVERHILL
PLUM IS
ME 3 DA
BOIRE
DANIEL WEBSTER
GATE CITY
GROTON
RICHARDSON
AYER
FITCHBURG
SHAWSHEEN PINES
LAWRENCE
CGAF BEVERLY
PEABODY
BOLTON
WESTBORO
MARLBORO
LEICESTER
SPENCER
WORCESTER
GRAFTON
AUBURN
FRANKLIN-NORFOLK
FRANKLIN
BRANT ROCK
EAST BOSTON
MENDON
WOONSOCKET
SMITHFIELD
MINERAL SPRINGS
PUTNAM
KING
MYRICKS
PROVIDENCE
RICONN
TO HARTFORD
PLAINFIELD
NEW BEDFORD
FALMOUTH
NY 3 DA
FOSTER
WESTERLY
CONN
R.I.
MASS 2 DA
MASS 1 DA
EASTHAM THUNDERTOWN
CAPE COD
HYANNIS
CHATHAM
OAK BLUFFS
MARTHA'S VINEYARD
EDGARTOWN
NANTUCKET
REVERE
EVERETT
SOUTH BOSTON
NORWOOD
BOSTON-METRO
AMES
BROCKTON
EASTON
MANSFIELD
WILKINS
SHERMAN MEM
TO MONTPELIER
TO LEBANON
ALBANY 43
HARTFORD 329
WOODSTOCK
N H
MAINE
BLUE 4
BLUE 41
BLUE 40
AMBER 1
RED 13
GREEN 2
G 2
R 33
149
158
228
264
84
51
88
66
55
152
256
44
329
338
118
298
211
76
172
262
344
352
82
63
205
252
58
159
106
286
273
93
47
339
141
218
321
158
38
42°30'
42°20'
42°10'
41°30'
41°
71°10'
71°20'
69°30'
72°
71°30'
71°
70°30'
70°
SCALE
SCALE OF MILES
10 0 10 20 30
5 0 5
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R : EXTREMELY HAZARDOUS
O USABLE WITH CAUTION
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS

SAN FRANCISCO



RADIO

CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUBURN FM	(-)	FM, 22°, 39	Sacramento
BAY POINT FM	(-)	FM, 19°, 24	Oakland
BELMONT FM	(. - -)	FM, 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM, 123°, 37.5	Oakland
FAIRFIELD-SUISUN, (Fairfield)(Army)	248 (DPA)	SBMRAZ-DT	(3);126.18 cont.; 4220 kcs on req.
Fairfield-Suisun AAF	272 (126.18)	CA; 210°, 4.7	(3),4220;126.18(OCA)
FARRALLON ISLAND	379 (FQ)	HW	
HALF MOON BAY FM	(- - -)	FM, 199°, 11	San Francisco
HAMILTON, (San Rafael)(Army)	328 (DHP)	HZ	
Hamilton Field	219 (126.18)	CA; 160°, 2.1	(3), 6500; 126.18. 4220 kcs on req.
→ LOS BANOS FM	(- - - -)	FM, 271°, 61.2	Fresno
MATHER, (Sacramento)(Army)	388 (DIM)	MRLWZ	Req. 1 hr. notice.
Mather Field	201 (126.18)	CA; 298°, 8.9	(3); 126.18
Mather Army (H fac.)	476 (DIM)	H	
McCLELLAN, (Sacramento)	396 (126.18)	CA	(3); 126.18
NEWARK FM	(- -)	FM, 123°, 16	Oakland
OAKLAND	335 (CA)(116.1)	SBMRAZ-VDTX, 199°, 0	(4); 116.1
SACRAMENTO	256 (SZ)(116.1)	SBMRAZ-VDT	(3); 116.1
Sacramento Airport	278 (126.18)	C; 22°, 1.7	(3); 126.18
SALINAS	266 (DZS)	MRLW-DT, 310°, 2.4	(8-18)
SAN FRANCISCO	227 (SF)	SBMRIZ-DT, 291°, 3.6	(3)
SANTA ROSA NAAS (NC)	3295 (142.74)	CN	(3); 142.74 (req only)
SAUSALITO FM	(- - - -)	FM, 278°, 17.5	Oakland

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alexander Valley (Healdsburg)	3.7 ENE;riv NE	160	19 S2	80 oct. Hill SSE.
Amador Co. (Jackson)(NC)	2 NW;hwy S	1450	15	Trees S.
American Legion (Salinas)	1.8 NNW	72	31	
★ Auburn Int.10,SP-SL	3.3 N,RR SE	1510	31 L3 S6	80 oct.
Borges-Clarksburg (Clarksburg)	2.4 NNE;riv SE	15	25 S6	80 oct. No sto. Power line E.
Branstetter (Sacramento)	3 NNW;RR E	30	30 S6	73, 80 oct. Data not verified.
Carmel Valley	12.5 ESE;riv S	450	28 S4	80 oct. No sto.
(N) Cotati OLF (N)	1.5 N; RR E	94	40h	INACTIVE. Wires E.
(N) Crows Landing NAAS (N)	2.5 NW;RR E	146	75h	INACTIVE.
Dos Palos	1.6 S;RR W	146	29 S6	80,91 oct. No sto. Pole line S.
Eagle (Dos Palos)	6.5 SW;creek N	167	23 L1 S4	80, 91 oct. No sto.
Fairfield-Suisun	1 E;RR N	7	30 S5	80 oct. Poles N, S.
(A) Fairfield-Suisun AAF(A)	5.5 NE	50	51h R2 L5 S4	73,91,100 oct. FOREIGN CLEARING STATION.
Franklin (Stockton)	5.5 SSE of Franklin	21	40h	River E.
(A) Hamilton (San Rafael)(A)	6.5 NNE;bay E	-2	80h R2 L5 S6	73-100 oct. JP-1. Twrs W.
Hollister	2.9 N; RR SW	234	44h	
Justman (Petaluma)	1.5 ENE;RR SW	25	16 S4	80 oct. No sto.
King City	1.5 NNE,RR W	360	40h	
Kingsbury (Stockton)	6 WSW of Lodi	15	40h	RR NE.
Lampson (Lakeport)	4 ESE;hwy S	1350	36 S2	80 oct. Poles SE.
Lincoln (Sacramento)	3.3 WNW,RR NE	120	45h	
Lind's (Lodi)	4.6 N;hwy E	54	33 S6	80 oct. No sto. Poles E.
Los Banos	1.2 W; canal S	126	32 S6	80,91 oct. No sto. Poles S.
(A) McClellan (Sacramento)(A)	9 NE;RR SE	73	75h R1 L5 S4	80,73,91,100 oct. JT-1.
Martinez	0.8 N;RR S	6	20 S6	80 oct. Hill WSW.
(A) Mather (Sacramento)(A)	10.5 E;RR NW	97	75h R2 L5 S6	91,100 oct. No sto.
Modesto	2.2 ESE;riv S	100	40h L1 S5	73,80 oct. Beacon prior req.
(P) MONTEREY PENINSULA	3.4 ESE;bay N	220	50h L2 S1	80,91 oct.Lgts prior req.Data unverified.
Mother Lode (Valley Sprgs)	6.6 NE;hwy S	1600	17 S2	80 oct. Pole line ESE, S.
(P) Napa Co. (Napa)	5.5 S;riv W	37	53h L5 S4	73,80,91 oct.No sto.Fld lgts prior req.
New Jerusalem(Stockton)	8 ESE of Tracy	56	40h	River E.
Norton Sky Ranch (Healdsburg)	5.2 NNW;RR E	225	23 S4	80,91 oct.No sto.Pole line NW.
Oak View (Petaluma)	3.3 ENE;RR SW	50	20 S1	80 oct.Pole line WNW.
Orange Brothers (Stockton)	5 N	23	20 S6	80 oct. Poles W.
Petaluma	1.7 N,RR E,W	30	15 S4	80 oct.
→ (P) SACRAMENTO	4 S;RR W	21	60h R2 L5 S1	80 oct. Pole line E.
Salinas	2.5 SE;RR SW	71	55h	
Santa Cruz	4.8 E;RR W	96	24 S1	80 oct.
→ Santa Rosa	7 NW;RR E	118	45h L5 S6	80,91 oct. Lgts on req.
Santa Rosa Airpark	2.8 NNW;RR SW	170	22 S1	73, 80, 91 oct.
(N) Santa Rosa NAAS (N)	2.5 SW,RR E	110	75h R1 L5 S4	91,100 oct. No sto.
Sky Ranch (Sacramento)	4 SSE;RR W	26	28 L S5	80,91 oct. Pole line SE.
Stan's Airpark (Vallejo)	2.5 NNW,RR E	5	24 S4	80 oct.
State Forestry (Davis)(NC)	3 E;hwy N	228	26	Power line W.
(A) Stockton	4 SSE;RR W, SW	23	45h L5 S6	80,91,100 oct.
University (Davis)	2.4 WSW;RR E,hwy S	65	37 S6	80,91 oct.
(P) Watsonville #1	2.6 NW;bay SW	178	45h L5 S6	80,91 oct.
Watsonville #2	3.8 SSW;bay W	125	17h	
West Lane (Stockton)	4.1 N;RR W	25	25 S1	73, 80 oct.
Winters Flight Strip (Davis)	6.2 WNW;hwy W	97	60h	
Yolo Flyers (Woodland)	5.5 W;hwy E	75	34 S4	80 oct. No sto. Poles E.
Vallejo Sky Harbor	3.5 NNW;RR,hwy adj E.	10	25 S6	80,91 oct.(Vallejo)
Marin County Inc.	2.9 NNE;RR,hwy W	2	17 S4	80 oct.(San Rafael)
→ Chatfield	2.2 E;RR W,hwy N.	120	24	
→ Elberg (Lower Lake)	4 NW;hwy SW	2150	24 S1	80 oct. Hill NW.
→ Lodi Arpk	4.5 SW;RR W,hwy E.	25	29 S6	80 oct.
→ Napa Sky Ranch (Napa)	2.2 NNE;RR,hwy W.	40	19 S5	80,91 oct.
→ Sumner Farm(Manteca)	1.5 NE;hwy RR W.	50	19 S2	80 oct.Wires,trees SE.
→ Valley (Harmon Hill)	1.2 S;hwy E.	440	17 S1	80 oct.Pvt pole SE.

h-hard surfaced runways R-radio facilities L-lighting facilities S-servicing (See page xiii) NC-(not charted). → NEW OR REVISED DATA

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMEDA NAS	257(126.18,142.74)	CN	(3); 126.18,142.74
NAS (Seaplane)	2870	CN	2870
BAKERSFIELD (Kern Co.)	239(BD)(116.1)	SBMRAZ-VDT;141°,1.5	(3);,116.1
BELMONT FM	(. - -)	FM; 107°, 5.8	San Francisco
BELMONT	356 (P)	FMK; 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM; 123°, 27.5	Oakland
HALF MOON BAY FM	(- - -)	FM; 199°, 11	San Francisco
KERN COUNTY, BAKERSFIELD	278 (118.5)	C (ILS)	(4);126.18,131.9,118.7
LEBEC FM	(- -)	FM, 141°, 42	Bakersfield
MOFFETT NAS (Mountain View)	3295	CN	(3);126.18,142.74
MOUNTAIN VIEW (Navy)(Moffett NAS)	323 (NUQ)	BMRLZ;320°, 1.9	(3);126.18,142.74
NEWARK FM	(- -)	FM; 123°, 16	Oakland
NEWARK	371 (O)	FMK; 123°, 16	Oakland
OAKLAND	335 (OA)(116.1)	CBHAZ-VDTX	(4); 116.1
Oakland Airport	278 (126.18)	C (ILS) 199°, 6	(4);126.18,118.7,131.9(OCA)
POINT MUGU NAP	338 (142.74)	CN	3105, 6210;142.74 (8-20)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT	(3)
San Francisco Airport	269 (126.18) (118.9)	C;291°, 3.6	(4); 126.18, 118.9,131.9
SANTA BARBARA	230(OY)(116.1)	BMRLZ-VDT	(4); 126.18,142.74, 116.1
Santa Barbara Airport	278 (118.7)	C; 74°, 2.2	(4);118.7 (7-23)
SANTA ROSA NAAS	3295(142.74)	CN	(3); 142.74 (req only)
SAUSALITO FM	(- - - -)	FM; 278°, 17.5	Oakland

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	AFFR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO, CALIF.	109.9		300° Mag.	IM (.07)	MM ····· (.80)	OM - - (4.71)
					MMK	OMK
OAKLAND, CALIF.	109.9		273° Mag.	IM ····· (.12)	MM	OM - - (2.00)
					MMK	OMK

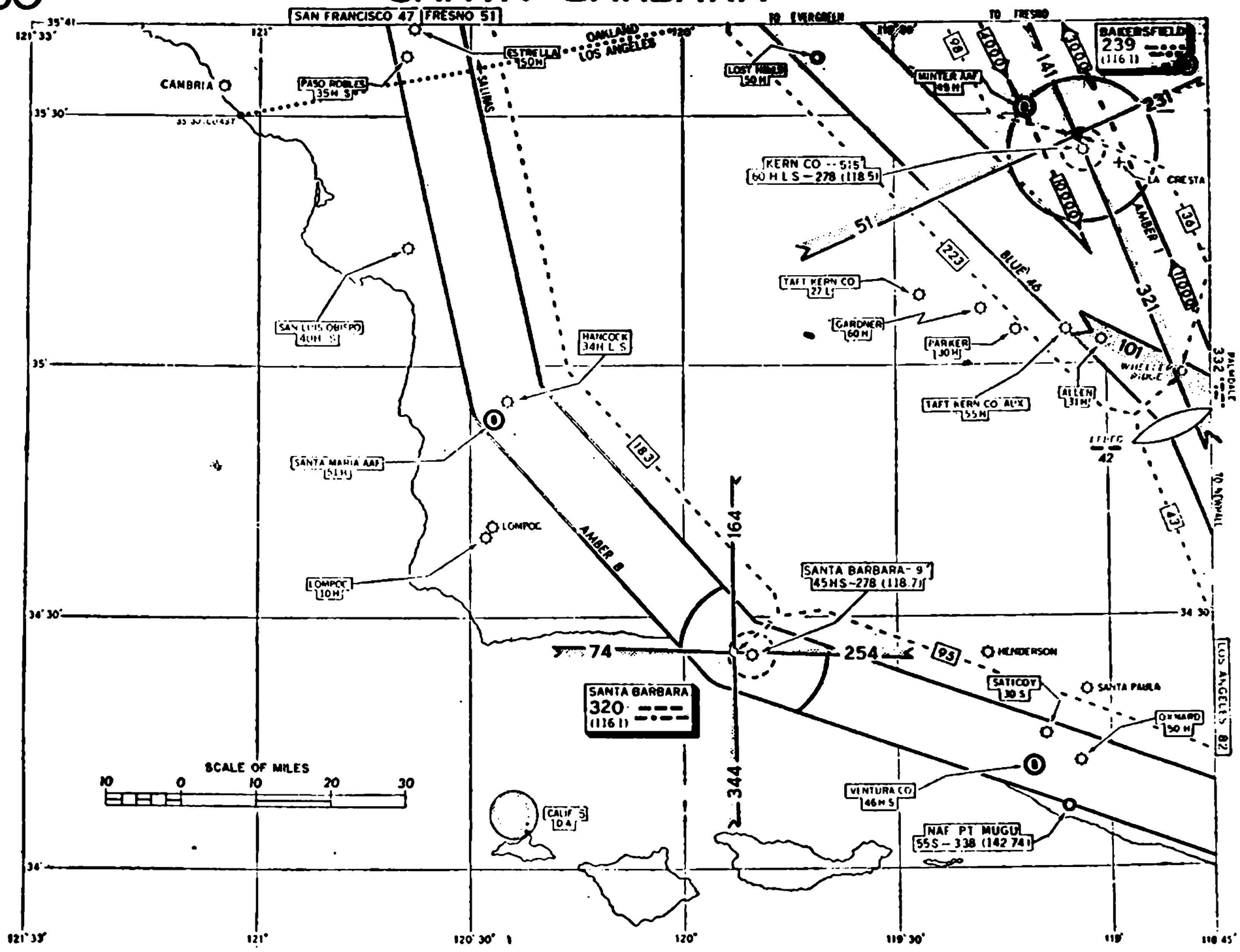
S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

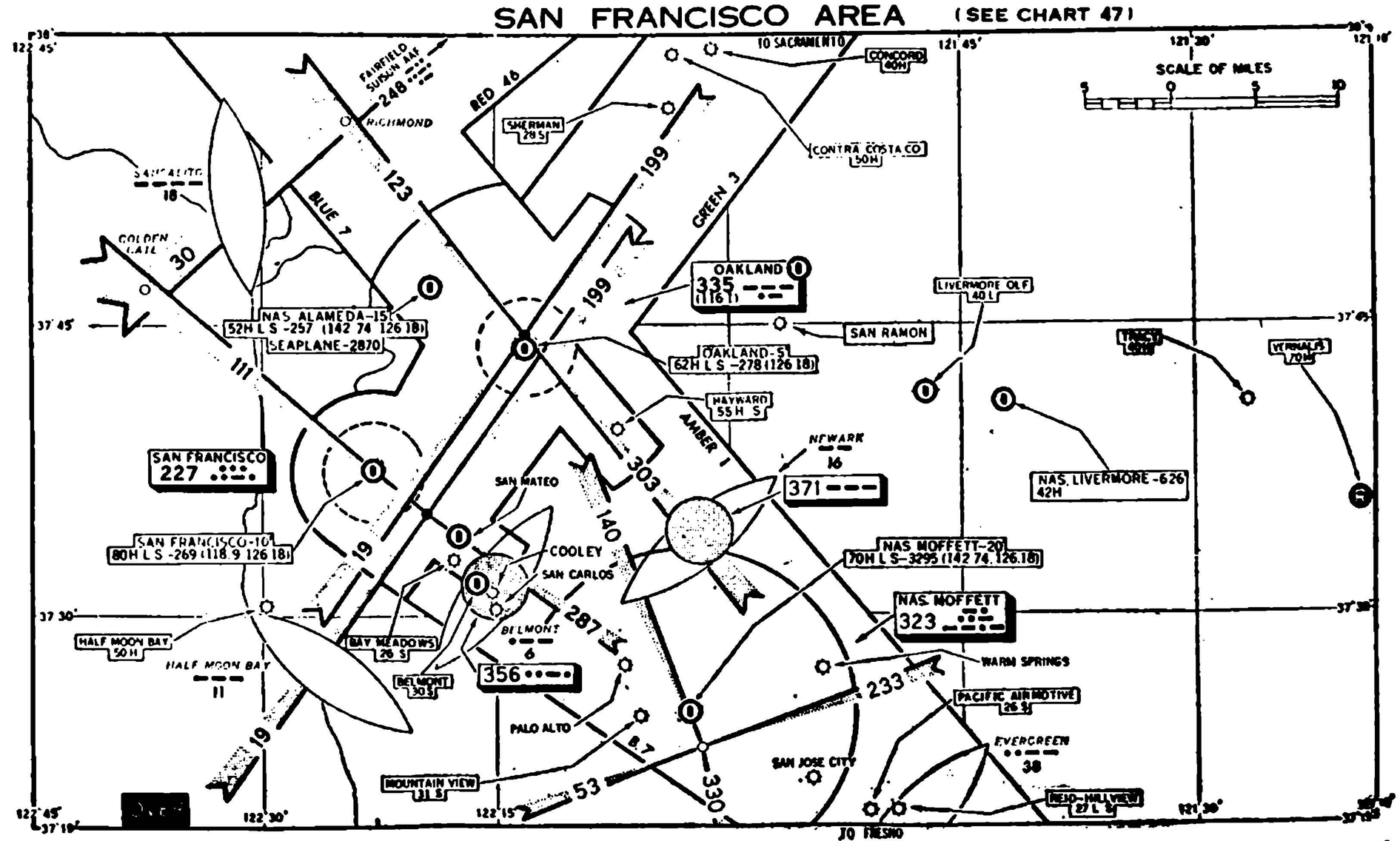
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Alameda NAS (N)	4.5WNW,bayS,W	15	52h R1 L5 S6	91,100 oct. No sto. MAFC
Allen (Taft)	26 ESE	500	31h	
Bakersfield-Kern Co.#2(Bakersfield)(NC)	6 E;RR,hwy S	660	21	
Bay Meadows (San Mateo)	1.7 SE,RR W	6	26 L3 S6	80,91 oct.Bldg SSE.No bcn.Strp lgts prior req.
Belmont	0.5 N;RR W	5	30 S4	73,80 oct. No sto. Bay E.
Concord	1.9NE;hwyE,S,N	104	40h	
Contra Costa County (Concord)	1.5 NW;hwy S	23	50h	
Crawford USFS (Santa Ynez)(NC)	4.2 ESE;hwy S	525	13	
Cuyama USFS (Maricopa)(NC)	16 SSW	2749	26	
Estrella(Paso Robles)	4.5 NE	806	50h	Use in emergency.
Garzoli (Taft)	9 ESE;RR SE	444	60h	
Half Moon Bay	5.5 NW,hwy NE	36	50h	
Hancock (Santa Maria)	1.2 SE;RR N	236	34h L4 S4	80,91,100 oct.No bcn.Pwr line,twr W.
Hayward	2 WSW,RR W	25	55h L5 S6	80,91 oct.No sto.Fld lgts prior req.
Henderson (Ojai)	3.5 WSW;RR E	600	16 S1	80 oct.
(P) KERN COUNTY (BAKERSFIELD)	4.4 NNW;RR W	515	60h R3 L5 S1	80,91 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct. Data unverified.
(N) Livermore NAS (N)	3.7 E;RR N	606	42h	INACTIVE.
(N) " OLF (N)	2 WNW;hwy E	448	40 L2	Poles E, N. Twr NE.
Lompoc	0.6 N;riv N	94	10h	
com.	2.5 N;riv S	200	18 S1	80 oct.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	INACTIVE.
(N) Moffett NAS (LTA)(Mountain View)	2 NE,hwy S	20	70h R2 L4 S4	91,100 oct. No storage.(N)
Mountain View	2.2 NW,RR W	57	31 S6	73 oct.
(A,N)Oakland	5 S;RR SE	5	66h R3 L6 S6	73,80,91,100 oct.
Oxnard Landing Strip	5.5 E;RR S	78	50h	Use in emergency.
Pacific Airmotive (San Jose)	2.6 E;road SW	125	27 L S4	73,80 oct. No storage.
Palo Alto	2 ENE;bay E	5	23 S6	73,80 oct. Poles S, unlgtd.
Parker (Taft)	15 SE	550	30h	
Paso Robles	2.7 ESE;hwy W	810	35h S5	80,91,100 oct.
(N) Point Mugu NAP (N)	3.6 NW		55 R1 S4	73,91,100 oct. Twr, hi-line E.
Reid-Hillview (San Jose)	4 E;hwy N	200	27 L3 S6	80,91 oct.No sto.Pwr bcn.Pole lines E.
San Carlos	1 SE;RR SW	2	23 S6	80,91 oct. Pole line NW, SE.
(F) SAN FRANCISCO	9 SSE;bay E	10	80h R2 L5 S1	80,100 oct. No storage. Rco req.
San Jose City (San Jose)	2 NW;RR SW	70	12 S6	91 oct.No sto.Pwr line E.
(F) San Luis Obispo	2 SSE;hwy E,S	200	40h L5 S4	80,91 oct.No sto.
San Mateo	2.2 ESE;RR E,hwy W	6	15 S6	80,91 oct. No sto.
(F) SANTA BARBARA	8.1 W;ocean S	9	45h R2 L5 S6	80,91,100 oct. Fld lgts till 2300.
(A) Santa Maria AAF (A)	3.5 S;hwy E	258	51h	INACTIVE.
Santa Paula	0.8 S;riv S	240	22 L S6	80 oct.Portable strp lgts prior req.
Saticoy	1.5 S;RR N	80	30 S1	80,91 oct.No sto.Trees NE.
Shafter-Kern Co.(Shafter)(NC)	3.3 SSE	500	20	
Sherman (Walnut Creek)	3 N;RR E	100	28 S4	80 oct. Poles NW, SE.
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2(Taft)(NC)	7 ESE	444	26	
Taft-Kern County Aux. (Taft)	21 SE	444	55h	
Tracy #5 (Stockton)	3.6 S Tracy	190	40h	
Ventura County (Oxnard)	1 W;hwy E	44	46h L S6	80, 91 oct. Flares prior req.
Vernalis	2.3 S	212	70h	
Warm Springs	2.3 SSE;RR W	100	28 S6	80,91 oct.No sto.
Cooley Fld (San Carlos)	2.9 NNW;RR S,hwySW	6	21 S6	80,91 oct.
Cambria	0.9 SSE; hwy E	350	19	Trees W,NW.
San Ramon	2.5 SE;RR adj E	440	25 S2	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

SANTA BARBARA



SAN FRANCISCO AREA (SEE CHART 47)



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

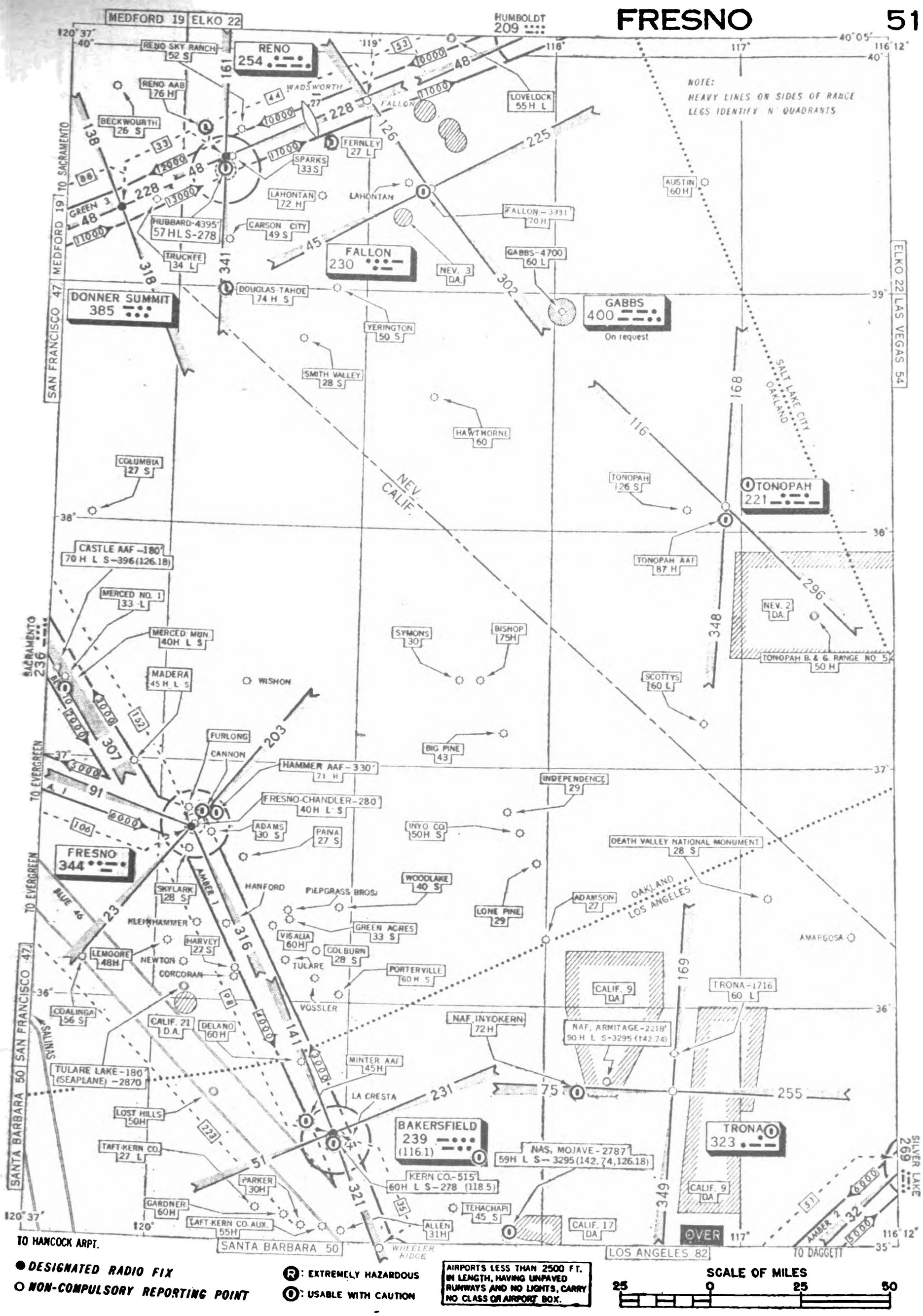
NOTE:
HEAVY LINES OR SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.

(R): EXTREMELY HAZARDOUS

(O): USABLE WITH CAUTION

FRESNO 51


MEDFORD 19 ELKO 22
HUMBOLDT 209
RENO SKY RANCH 52 S
RENO 254
RENO AAB 76 H
BECKWOURTH 26 S
WADSWORTH
FALLON
LOVELOCK 55 H L
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS
FERNLEY 27 L
SPARKS 33 S
LAHONTAN 72 H
LAHONTAN
AUSTIN 60 H
FALLON – 3931 70 H
HUBBARD-4395 57 H L S-278
CARSON CITY 49 S
FALLON 230
GABBS-4700 60 L
TRUCKEE 34 L
NEV. 3 DA.
DONNER SUMMIT 385
DOUGLAS-TAHOE 74 H S
GABBS 400
On request
YERINGTON 50 S
SMITH VALLEY 28 S
HAWTHORNE 60
SALT LAKE CITY OAKLAND
COLUMBIA 27 S
NEV. CALIF.
TONOPAH 126 S
TONOPAH 221
TONOPAH AAF 87 H
CASTLE AAF – 180' 70 H L S – 396 (126.18)
MERCED NO. 1 33 L
NEV. 2 DA.
SYMONS 30
BISHOP 75 H
MERCED MUN. 40 H L S
MADERA 45 H L S
WISHON
SCOTTYS 60 L
TONOPAH B. & G. RANGE NO. 5 50 H
SACRAMENTO 236
FURLONG
CANNON
BIG PINE 43
HAMMER AAF – 330' 71 H
INDEPENDENCE 29
FRESNO-CHANDLER – 280' 40 H L S
ADAMS 30 S
PAIVA 27 S
INYO CO. 50 H S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
VISALIA 60 H
GREEN ACRES 33 S
AMARGOSA
LEMOORE 48 H
NEWTON
HARVEY 27 S
COLBURN 28 S
TULARE
PORTERVILLE 60 H S
CORCORAN
CALIF. 9 DA
TRONA – 1716 60 L
VOSSLER
COALINGA 56 S
CALIF. 21 D.A.
DELANO 60 H
NAF, INYOKERN 72 H
NAF, ARMITAGE – 2218' 90 H L S – 3295 (142.74)
MINTER AAF 45 H
TULARE LAKE – 180 (SEAPLANE) – 2870
LA CRESTA
LOST HILLS 50 H
BAKERSFIELD 239 (116.1)
TRONA 323
TAFT-KERN CO. 27 L
NAS, MOJAVE – 2787 59 H L S – 3295 (142.74, 126.18)
KERN CO. – 515 60 H L S – 278 (118.5)
PARKER 30 H
GARDNER 60 H
TEHACHAPI 45 S
CALIF. 9 DA
LAFT-KERN CO. AUX. 55 H
ALLEN 31 H
CALIF. 17 DA
WHEELER RIDGE
SILVER LAKE 266
OVER
TO HANCOCK ARPT.
SANTA BARBARA 50
LOS ANGELES 82
TO DAGGETT
SAN FRANCISCO 47
MEDFORD 19 TO SACRAMENTO
ELKO 22 LAS VEGAS 54
SAN FRANCISCO 47
SANTA BARBARA 50
TO EVERGREEN
SALINAS
AMBER 1
BLUE 46
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
25 0 25 50

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.GUARDED,HRS OF OPER., REMARKS
ARMITAGE (Inyokern)	3295(142.74)	CN	
BAKERSFIELD (Kern Co.)	239 (BD)(116.1)	SBMRAZ-VDT, 141°, 1.5	(3):126.18,142.74(days)
CASTLE FIELD (Merced)	396 (126.18)	CA	(3); 116.1
DONNER SUMMIT	385 (DS)	BMRL-DT	(3); 126.18
FRESNO (Fresno-Chandler)	344 (FT)	SBRAZ-DT,23°, 0.9	(4)
KERN CO., (BAKERSFIELD)	278 (118.5)	C(ILS)	(4)
MOJAVE NAS	3295(126.18)(142.74)	CN	(4):126.18,131.9,118.5
TRONA (Int.)	323 (EW)	SBMRAZ-DT, 349°,11	(4)Not manned cont.
TULARE LAKE SEAPLANE ANCHORAGE	2870	CN	(3):126.18,142.74
NEVADA			
FALLON	230 (VA)	SBRAZ-DT, 219°, 2.9	(4) not manned cont.
GABBS (Int.)	400 (GZ)	MHP	(4) not manned cont.
HUBBARD FLD (Reno)	278	CI	(4); Wed,Sat,Sun 6-19, other days 8-1630)
RENO (Hubbard)	254 (RP)(116.1)	SBRAZ-VDT,161°,3.3	(4); 116.1
TONOPAH (AAF)	221 (RY)	SBRAZ-DT,168°,2.8	(4) not manned cont.

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO., CALIF.	I09.9		300° Mag.	IM (.07)	MM ·····(.80)	OM -- (4.71)
				MK	MMK	OMK

——S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs.; ——(4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Fresno)	4 SE;RR S,W	295	30 S6	80,91 oct.No sto.Poleline NNW,SSE.
Adamson (Olancha)	0.6 SE;hwy W	3648	27	30' poles W; 75' twr E.
Allen (Taft)	26 ESE	500	31h	
Amargosa (Death Valley Jct)	0.7 W;hwy E	2037	22 S1	73 oct. Pole line S.
Bakersfield-Kern Co.#2(NC)	6 E;RR, hwy S	660	21	
Big Pine	3.4 ESE;RR W	4000	43	1500'mts SE;1000' mts E.
Bishop	2 ENE;riv E	4121	75h L5	All lgts prior req.
Bryant (Bridgeport)(NC)	0.3 NNE;hwy SW	6465	40	
Cannon (Fresno)	2 N;RR W	310	19 S6	80 oct.Pole line NNW.
(A) Castle (Merced) (A)	7 NW;RR SW	180	70h R1 L5 S6	91,100 oct. JP-1.
Coalinga	1.5 N;hwy E	664	56 S4	80 oct. Hill N,W.
Colburn (Lindsey)	4.7 W;RR E	325	28 S4	73, 91 oct.
Columbia (Sonora)	4 NNW;hwy E	2150	27 S6	73,80 oct.
Corcoran	1.3 WNW;rd S	220	19 S4	73,80 oct.No sto.Poles N, NW, SE.
Cornell (Porterville)(NC)	2.4 SSW;RR E	470	26	Poles SE.
Death Valley (Furnace Creek)	1 WNW	-178	28 S2	87,100 oct.
Defense Plant Corp.(Tulare)	6 SE;RR W	283	23	(NC)
Delano	1.5 SE;RR W	315	60h	
FRESNO-CHANDLER (Fresno)	1.8 W;hwy N	280	40h R1 L5 S6	73,80,91,100 oct.No sto.
Furlong (Fresno)	5.5 NW;RR W	285	33 S6	80,91 oct.
Gardner (Taft)	9 ESE;RR SE	444	60h	
Great Western (Reedley)(NC)	5 N;RR W	380	20	
Green Acres (Visalia)	1.5 NW;RR S	300	33 S6	80 oct.Pole line SE.
(A) Hammer (Fresno)(A)	4.8 NE;rds N,E	330	71h	INACTIVE.
Hanford	1.2 SE;RR W	250	20 S4	80 oct.
Harvey (Corcoran)	2.7 NNW;RR W	200	27 S4	80 oct.No sto.
Independence	0.9 N;hwy W	3926	29	Trees S.
Inyo County (Manzanar)	0.5 E;hwy W	3875	50h L5 S2	80 oct.All lgts prior req.
(N) Inyokern NAF (N)	0.5 WNW; RR E	2455	72h	INACTIVE.
(P) KERN COUNTY (Bakersfield)	4.4 NNW;RR W	515	60h R3 L5 S1	80,91 oct.
Kleinhammer (Lemoore)	1.2 N;hwys S	225	16 S2	80 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data unverified.
Lemoore	9 SW;RR NW	241	48h	
Lone Pine	0.8 SE;RR E	3700	29	Hazardous.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(N) Armitage NAF (Inyokern)(N)	8 ENE	2218		91,100 oct.No sto.CLOSED
Boston Land Co.(Westhaven)	1.7 SSW;hwy N.	300	31	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Madera	3.5 WNW;hwy E	271	45h L5 S4	80-100 oct. No sto.
Mariposa (NC)	4.5 NW,hwy SW	2250	21	
(P) Merced, mun.	1.6 WSW;RR NE	152	40h L5 S6	80,100 oct.No sto.
Merced #1	2.5 NW;RR SW	165	33 L3	No beacon
(A) Minter (Bakersfield)(A)	13.5 NW;hwy E	410	45h	INACTIVE.
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Monache Meadow (Olancha)	10.8 WSW	8000	25	USPS. (NC)
Newton (Stratford)	2.7 SSW;riv E	194	23 S4	80 oct.No sto.Pwrline N,NW
Paiva Intercity (Parlier)	1.5 WSW,RR NE	330	27 S4	80 oct.Poles ESE.
Parker (Taft)	15 SE	550	30h	
Piepgrass Brothers (Visalia)	3.7 NNW;riv S	320	20 S2	80 oct.
Porterville	3 SW;RR E	430	60h S1	91 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
Sequoia (Visalia)(NC)	8.5 NNW,RR E	310	23	
Shafter-Kern Co.(Shafter)(NC)	2.3 SSE;RR adj E	340	20	
Skylark (Fresno)	8.5 SSW;RR SW	255	28 S6	80,91 oct.
Symons (Bishop)	4 W; hwy N	4350	30	
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2 (Taft)	7 ESE	444	26	(NC)
Taft-Kern Co. Aux. (Taft)	21 SE	444	55h	
Tehachapi	1 N; RR S	3952	45 L S2	73,91 oct. Pole line SE.
Templeton Meadow (Olancha)	12 W	8800	20	S and W blocked. USPS.(NC)
★ Trona Int, 13, RV-ND	5 NE;rd W	1716	60 R1 L3	Fld sur by mtns.
★ Truckee Int, 16B, SP-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec.-Apr.
Tulare	2.9 SSE; RR W	300	20 S6	80,91 oct. No sto.
Tunnel (Olancha) USPS (NC)	16.5 WNW;riv S	9100	21	Mtns - timber 2000' NE.
Visalia	5 W;RR W	300	60h	
Vossler (Woodville)	1.3 E;hwy S	345	25	Trees N, S.
Wishon (Bass Lake) USPS	1.5 WNW	3380	22 S1	Ltd 73 oct. Trees NNW.
Woodlake	2.6 ESE;, lake NW	450	40 S4	80 oct. No sto.
NEVADA				
(P) Austin	7 WSW;riv NW	5730	60h	
Carson City	3.1 NE hwy W	4684	49 S6	80 oct.Mts N, hill W.
(P) Douglas-Tahoe (Minden)	2.8 NNE;RR W	4709	74h S6	73 oct.
★ Fernley Int, 22, SP-SL	3.3 E;hwy NW	4156	27 L2	
→ Fallon	6 SE;hwy S	3931	70h R1	Closed,emergency use only.
★ Gabbs Int, 36, RV-ND	4 NW;hwy E	4700	60 R1 L3	
(N) Hawthorne	2 N;lake NNW	4200	60 L	Emerg. lgtg on ½ hr req.
HUBBARD (Reno)	3.4 SE;RR N	4395	57h R2 L5 S4	80,91 oct. Fld lgts prior req.
Lahontan (Fallon)	1.4 SSW;hwy N	4000	24 S4	80 oct.Poles ENE,WSW,Hwy W
Lahontan Flight Strip (Fernley)	15.5 S;hwy N	4279	72h	
Lovelock	1.5 ENE;riv W	3986	31 S2	80 oct.
Manhattan (NC)	6.8 W;hwy W	5850	40	
(A) Reno AAB (A)	10.5 NNW;RR SW	5018	76h	INACTIVE. Mtns sur fld.
Reno Sky Ranch (Sparks)	8.5 NNE;hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
★ Scottys Int,22,RV-ND	9 SSE Gold Pt.	4300	60 L2	
Smith Valley	1 ESE;hwy N	4850	28 S6	73,80 oct.
Sparks Airpark	0.6 N;RR S	4400	33 S6	80,91 oct. Pole line W.
Tonopah	3.2 WNW;RR S	5600	26 S1	73 oct. by truck
(A) Tonopah AAF (A)	8 E;hwy N	5427	87h R1	INACTIVE.
(A) Tonopah B & G Range #5 (A)	44.5 SE	5335	50h	Dry lakes N.
Yerington	1.2 N;RR W	4483	50 S1	73 oct.

LAS VEGAS

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT (Love)	347(PN)(116.1)	SBRAZ-VDT,142°,5.5	(4), 116.1

CALIFORNIA

NEEDLES	400(NJ)(116.1)	BMRLZ-VDT,195°,2.2	(4), 116.1
SILVER LAKE (Int.)	269(RL)(116.1)	SBMRAZ-VDT,132°,1.9	(4), 116.1

NEVADA

CRYSTAL FM	(-)	FM, 28°, 30	Las Vegas
LAS VEGAS	206(LQ)(116.1) (111.1)	SBMRAZ-VDT	(3)131.7,116.1 only
Las Vegas AAF	278(126.18,118.7)	C (ILS),34°, 1.9	(4),131.9,118.7,126.18

UTAH

BRYCE CANYON (Int.)	108.3(BV)(111.1) (116.1)	VAR-VDPT,35°,0.8	3117.5,131.7,116.1, 129.7 cont.(3)req.
ENTERPRISE(Int.)	341(NP)(116.1)	SBMRAZ-VDT,20°, 3.1	(4), 116.1
MILFORD	320(MD)(116.1)	BMRLZ-VT,20°,1	(4), 116.1
ST.GEORGE	108.7(GX)(111.1) (116.1)	VAR-VDP,229°,7.8	3117.5;131.7,116.1, 129.7(3) on req.

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LAS VEGAS AAF, NEV.	110.3		25°Mag	IM	MM ·-·- (.66)	OM -- (4.2)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (4)-3105,4495,6210,3117.5. kcs.; (3)-3105,4495,6210 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
✱ Ashfork Int,36A, LA-AQ	4.3 W,RR S	5089	41 L3	
Clemenceau (Cottonwood)	1.7 SSW,hwy NE	3400	29 S4	73 oct.
Ernest A.Love (Prescott)	8 NE,RR E	5042	60h R1 L5 S6	80,91,100 oct.
Fredonia	1 NE,hwy W	4800	34	
Grand Canyon-South Rim	14.8 S,RR W	6362	50 S2	80 oct.Trees ENE.
Kingman	8.5 NE,hwy NW	3395	65h	
Mohave Co.(Kingman)	6.5 NW,hwy E	2850	34 S1	73 oct.
Port Kingman (Kingman)	3 NE,RR S,E	3435	54 L3 S1	80,91 oct.All lgts prior req.
★ Seligman Int,32,	16 W,road S.	5333	43 L3	LA-AQ
Valle	2.3 E RR W	5990	60 L3	Fld lgts prior req.
Verde Valley(NC)	1.8 SE,riv W	3400	30	(Cottonwood)
Williams	4.3 N,RR E	6600	41 S6	80 oct.Mts SW.
Yucca	1.5 NE,RR W	1975	60h	

ARIZONA

CALIFORNIA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Bagdad Int,16,LA-AQ	1 S,RR N	700	40 L3	
Needles	5.5 S,hwy E	918	58h R1 L3	
Riverview(Needles)	1.4 S,riv N	500	27 S1	80,91 oct.Trees NNE
✱ Silver Lake Int,18, LA-SL	2.5 SSE,RR E	924	40 R1 L3	Rnwy data unverif.

NEVADA

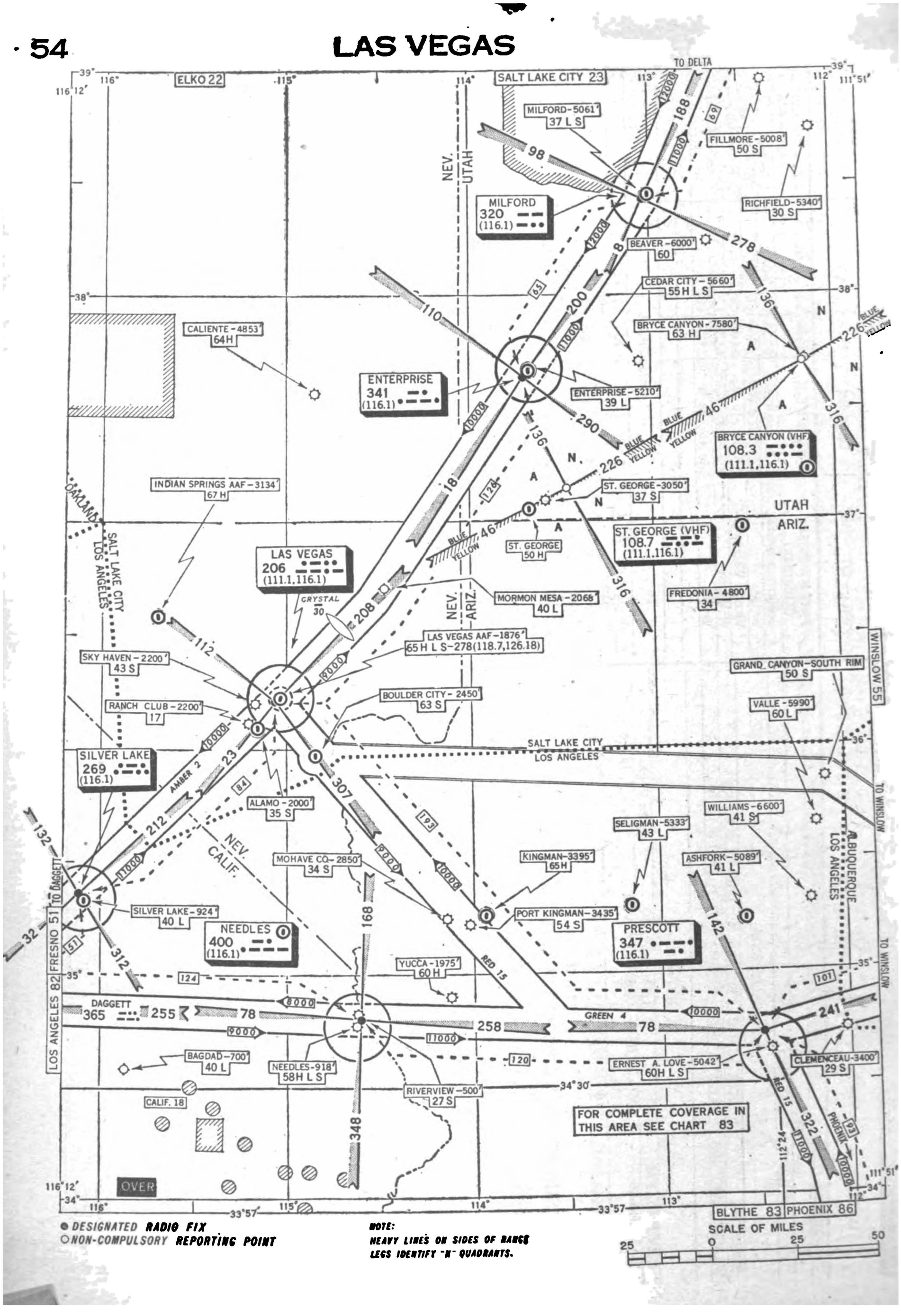
Alamo (Las Vegas)	5.5 SSW,RR SW	2000	35 S4	73,80,91 oct.
(N) BOULDER CITY	1.8 SW,RR W	2450	63 L1 S4	73,80 oct,by truck;91 oct for airlines.
Caliente Flgt Strip	19 W,hwy N	4853	64h	
(A) Indian Springs(A)	2 WNW	3134	67h	INACTIVE.
(A) Las Vegas AAF(A)	7.8 NE,hwy NW	1876	65h R3 L5 S6	100 oct. No sto.
✱ Mormon Mesa Int, 31B,LA-SL	6 ENE Glendale	2068	40 L3	
Pahranagat(Alamo)	0.7 W,hwy E	4300	26	(NC)
Ranch Club(Las Vegas)	5.5 SW,RR E	2200	17	Mts WSW,ENE,E.
Searchlight Landing Strip (NC)	10.8 SSE,hwy E	2536	40	
Sky Haven	3.3 NW,hwy W	2200	43 S4	80,91 oct.(Las Vegas)

UTAH

Beaver	3.2 SSW,hwy E	6000	60	
✱ Bryce Canyon Int, 45, LA-DV	5 N,hwy S	7580	63 L3 S2	No fuel.
Cedar City	2.3 NW,hwy W	5660	55h L5 S6	80,91 oct.
★ Enterprise Int,39	8 NNE,hwy N	5210	39 R1 L3	LA-SL
Fillmore	2 WSW,hwy SE	5008	50 S2	73 oct.
Milford,45,LA-SL	2.3 NNW,RR E	5061	37 R1 L3 S1	80 oct.
Richfield	1.8 SSW,RR E	5340	30 S4	80 oct.
St.George	1.5 SSW,riv SSE	3050	37 L2 S4	80 oct.Fld lgts &
✱ St.George Int,36, LA-DV	6 SE		50h	svcg prior req.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) NC-(not charted). → NEW OR REVISED DATA

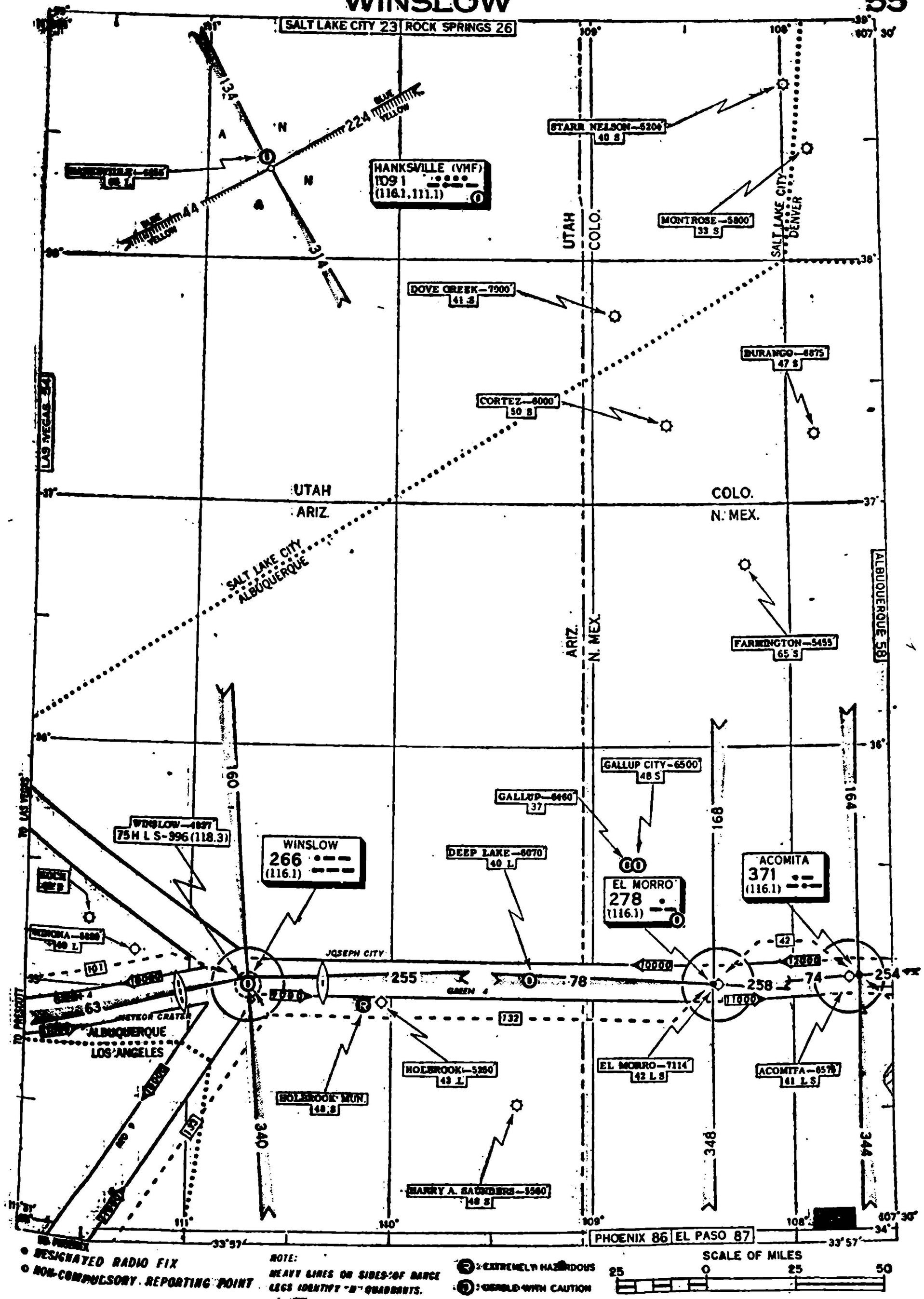
LAS VEGAS



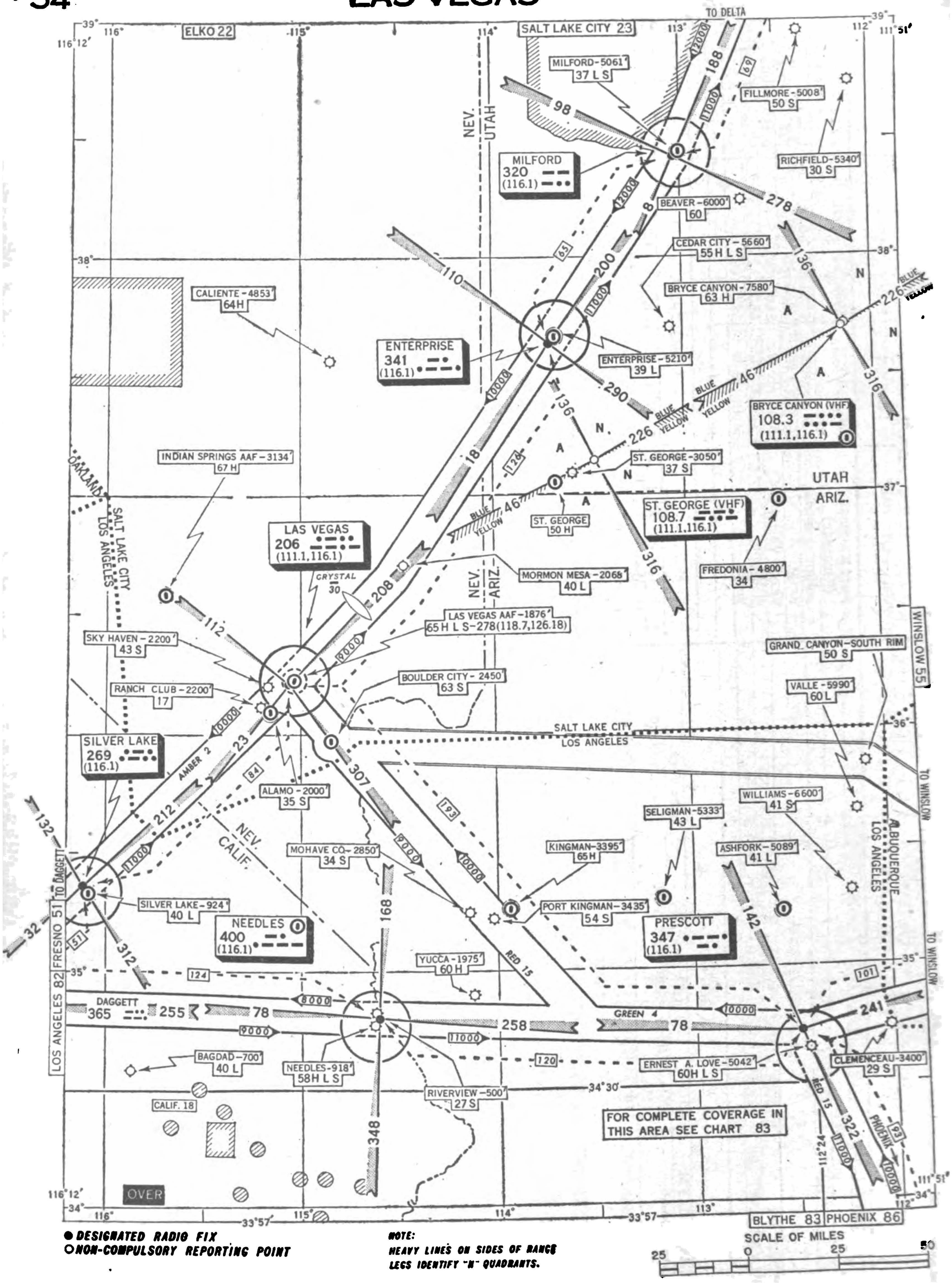
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

WINSLOW


SALT LAKE CITY 23
ROCK SPRINGS 26
134
224
44
314
A
N
HANKSVILLE (VHF)
109 I
(116.1, 111.1)
STARR NELSON—6204'
40 S
MONTROSE—5800'
33 S
SALT LAKE CITY
DENVER
UTAH
COLO.
DOVE CREEK—7900'
41 S
DURANGO—6875'
47 S
CORTEZ—6000'
50 S
LAS VEGAS 343
UTAH
ARIZ.
COLO.
N. MEX.
SALT LAKE CITY
ALBUQUERQUE
FARMINGTON—5455'
65 S
ALBUQUERQUE 58
ARIZ.
N. MEX.
160
168
164
GALLUP CITY—6500'
48 S
GALLUP—6460'
37
WINSLOW—6897'
75 H L S—996 (118.3)
WINSLOW
266
(116.1)
DEEP LAKE—6070'
40 L
EL MORRO
278
(116.1)
ACOMITA
371
(116.1)
42
JOSEPH CITY
255
78
258
74
254
GREEN
63
METEOR CRATER
JALBUQUERQUE
LOS ANGELES
TO PHOENIX
HOLBROOK—5280'
43 L
HOLBROOK MUN.
48 S
EL MORRO—7114'
42 L S
ACOMITA—6570'
41 L S
HARRY A. GATHRIGHT—5560'
48 S
340
348
344
PHOENIX 86
EL PASO 87
SCALE OF MILES
25 0 25 50
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF BARBS
LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
D: DERBLD WITH CAUTION

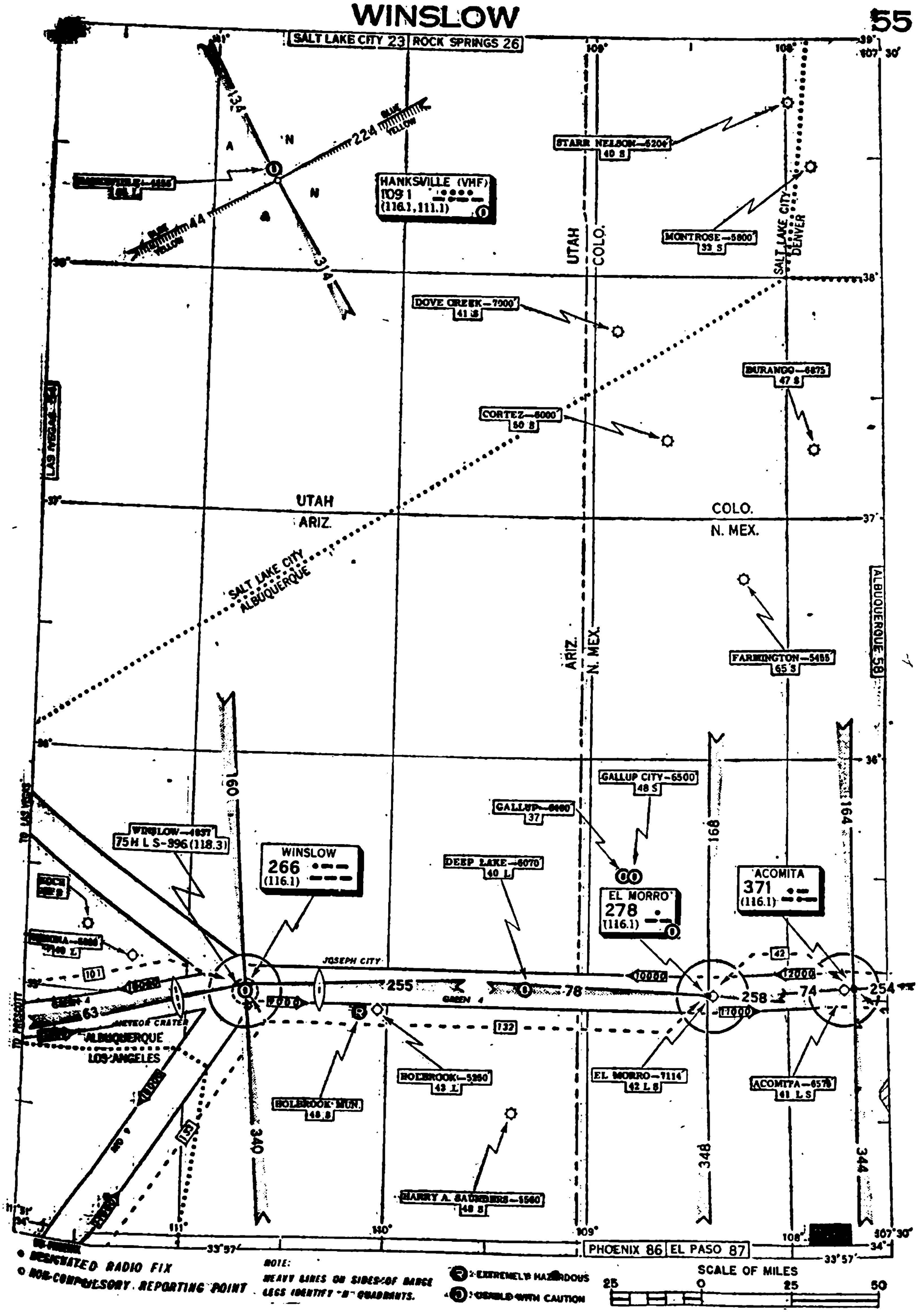
LAS VEGAS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

WINSLOW


SALT LAKE CITY 23
ROCK SPRINGS 26
134
224
344
BLUE YELLOW
A
N
HANKSVILLE (VHF)
109
(116.1, 111.1)
STARR NELSON—5204'
40 S
MONTROSE—5800'
33 S
SALT LAKE CITY
DENVER
UTAH
COLO.
DOVE CREEK—7000'
41 S
CORTEZ—8000'
50 S
DURANGO—6875'
47 S
LAS VEGAS 84
UTAH
ARIZ.
COLO.
N. MEX.
SALT LAKE CITY
ALBUQUERQUE
FARMINGTON—5485'
65 S
ALBUQUERQUE 58
ARIZ.
N. MEX.
160
168
164
GALLUP CITY—6500
48 S
GALLUP—6460'
37
WINSLOW—4857'
75 H L S-896 (118.3)
WINSLOW
266
(116.1)
DEEP LAKE—6070'
40 L
EL MORRO
278
(116.1)
ACOMITA
371
(116.1)
ROCK
40 S
PRESCOTT—5556'
140 L
101
63
METEOR CRATER
ALBUQUERQUE
LOS ANGELES
JOSEPH CITY
255
78
258
74
254
GREEN 4
132
HOLBROOK—5250'
43 L
HOLBROOK MUN.
48 S
EL MORRO—7114'
42 L S
ACOMITA—6570'
41 L S
HARRY A. SAUNDERS—5560'
48 S
340
348
344
42
PHOENIX 86
EL PASO 87
33°57'
34°
111°
110°
109°
108°
107°30'
SCALE OF MILES
25 0 25 50
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF BASE LEGS IDENTIFY "B" QUADRANTS.
EXTREMELY HAZARDOUS
USABLE WITH CAUTION

RADIO

ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JOSEPH CITY FM	(-)	FM, 75°, 20	Winslow
METEOR CRATER FM	(- - -)	FM, 243°,18	Winslow
WINSLOW	266(WO)(116.1)	SBRAZ-VDT	(4), 116.1
Winslow Airport	396 (118.3)	C, 160°, 1.5	(4),118.3,131.9,126.18. (6-18)

NEW MEXICO

ACOMITA (Int.)	371(AK)(116.1)	BMLZ-VDT,254°,1.9	(4), 116.1
EL MORRO (Int.)	278(EM)(116.1)	BMRLZ-VDT,5°,0.1	(4), 116.1

UTAH

HANKSVILLE Int.	109.1(HY)(111.1) (116.1)	VAR-VDP,314°,2.8	3117.5:116.1,131.7,129.7 (3) on req. Not manned cont.

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS

ARIZONA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cameron (NC)	1.4 NE;hwy W	4200	50	
★ Deep Lake Int,54A, LA-AQ	1.5 W;hwy E	6070	40 L3	Poles S.
Holbrook	2.2 NNE;RR SE	5200	48 S4	80 oct.
" Int,50,LA-AQ	6.6 ENE;hwy N	5250	43 L3	
Koch (Flagstaff)	9.8 NE;hwy S	6587	60 S1	Ltd 80 oct. Hills SW
Saunders, Harry A. (St. Johns)	1.1 NNW,hwy S	5560	48 S2	80 oct. 25' poles NE
Window Rock(NC)	0.8 SSW;rd N	6800	52	Bluffs ENE,NNE
★ Winona Int,43A, LA-AQ	8.9 ESE;hwy N	5880	40 L3	
(P) WINSLOW	2 SW;RR N	4937	75h R2 L5 S1	91 oct.

COLORADO

(P) Cortez	3.1 SW;hwy E	6000	50 S4	80 oct.
Dove Creek	0.6 E;creek W	7000	41 S1	80 oct. Pwr line SSW
(P) Durango	1.5 NE	6875	47 S6	80 oct.
Mancos (NC)	1.4 NNE;RR S	7500	30	
Montrose	1.3 S,RR NE	5800	33 S4	73 oct.
Starr Nelson(Delta)	4 E;road N	5204	40 S4	80 oct.

NEW MEXICO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Acomita Int,63, LA-AQ	7.8 W;hwy N	6575	41 R1 L3 S1	73,91 oct. in emerg.
Cubero (NC)	2.4 W;hwy S	6200	30	Pole line S. 11,000' mtns N.
★ El Morro Int,59B, LA-AQ	4.5 WSW;lake NW	7114	42 R1 L3 S1	Ltd 91 oct. Rough.
Farmington	1.4 NW on mesa	5455	65 S6	80, 91 oct.
Gallup	4 W;hwy;RR S	6460	37	Poleline SSW
Gallup City	2.6 WSW;RR N	6500	48 S4	80 oct. Pole line WSW.
Indian Service (Shiprock) (NC)	1.8 SSW;riv N	5100	19	Pole line NW.
Aztec (NC)	2.2 NW on mesa	5700	28	Emerg only.

UTAH

★ Hanksville Int,54, LA-DV	4 NE	4455	60 L3	
Monument Valley (Goulding Trading Post)	0.5 N;hwy E	5284	30	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC) Not charted. ⟶ NEW OR REVISED DATA.

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COLORADO SPRINGS (Peterson)	224 (CD)	MRLWZ, 166°, 3.9	
FOUNTAIN FM	(- - - -)	FM; 334°, 32.7	Pueblo
LA JUNTA AAF	281(LH)	SBMRLZ-DT; 194°, 2.6	(4)
PETERSON FIELD (Colorado Springs)	272 (126.18)	CA	(4); 116.1, 126.18
PUEBLO	302 (PU)	SBRAZ-DT; 340°, 2	(4)
TRINIDAD	329 (TD)	SBMRAZ-DT; 170°, 3	(4)
NEW MEXICO			
ALBUQUERQUE (Kirtland)	230(AB)(116.1)	SBRAZ-VDT; 354°, 3	(3); 116.1
ANTON CHICO (Int)	219(AC)(116.1)	MHVT	(4); 116.1
CLOVIS (Army)	203 (DCV)	BMRAZ	(3)
Clovis AAF	396 (126.18)	CA(ILS); 340°, 6.2	(3); 126.18
Clovis AAF	526 (DCV)	HW-DT; 130°, 1.6	
JUAN TOMAS FM	(- -)	FM; 71°, 18	Albuquerque
KIRTLAND FIELD (Albuquerque)	396 (126.18)(118.7)	AC	(4); 126.18, 118.7, 131.9
LAS VEGAS	359(VH)(116.1)	SBMRAZ-VDT; 80°, 3.2	(4)
MAXWELL FM	(- -)	FM, 170°, 54	Trinidad, Colo.
OTTO (Int.)	290(OT)(116.1)	BMRLZ-VDT; 74°, 0.2	(4); 116.1
PERALTA FM	(- - -)	FM, 174°, 11.6	Albuquerque
SANTA FE (New)	206(SJ)(116.1)	MHVT	(4); 116.1
SOCORRO	206(OS)(116.1)	MHVT	(4); 116.1
TUCUMCARI	212(YC)(116.1)	SBMRAZ-VDT; 76°, 2.2	(4); 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CLOVIS AAF, N. MEX.	109.9		33° Mag.	IM (.23)	MM ····· (.86)	OM - - (4.36)
					MMK	OMK

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station, (3)-3105.4495.6210 kcs., (4)-3105.4495.6210.3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — COLORADO

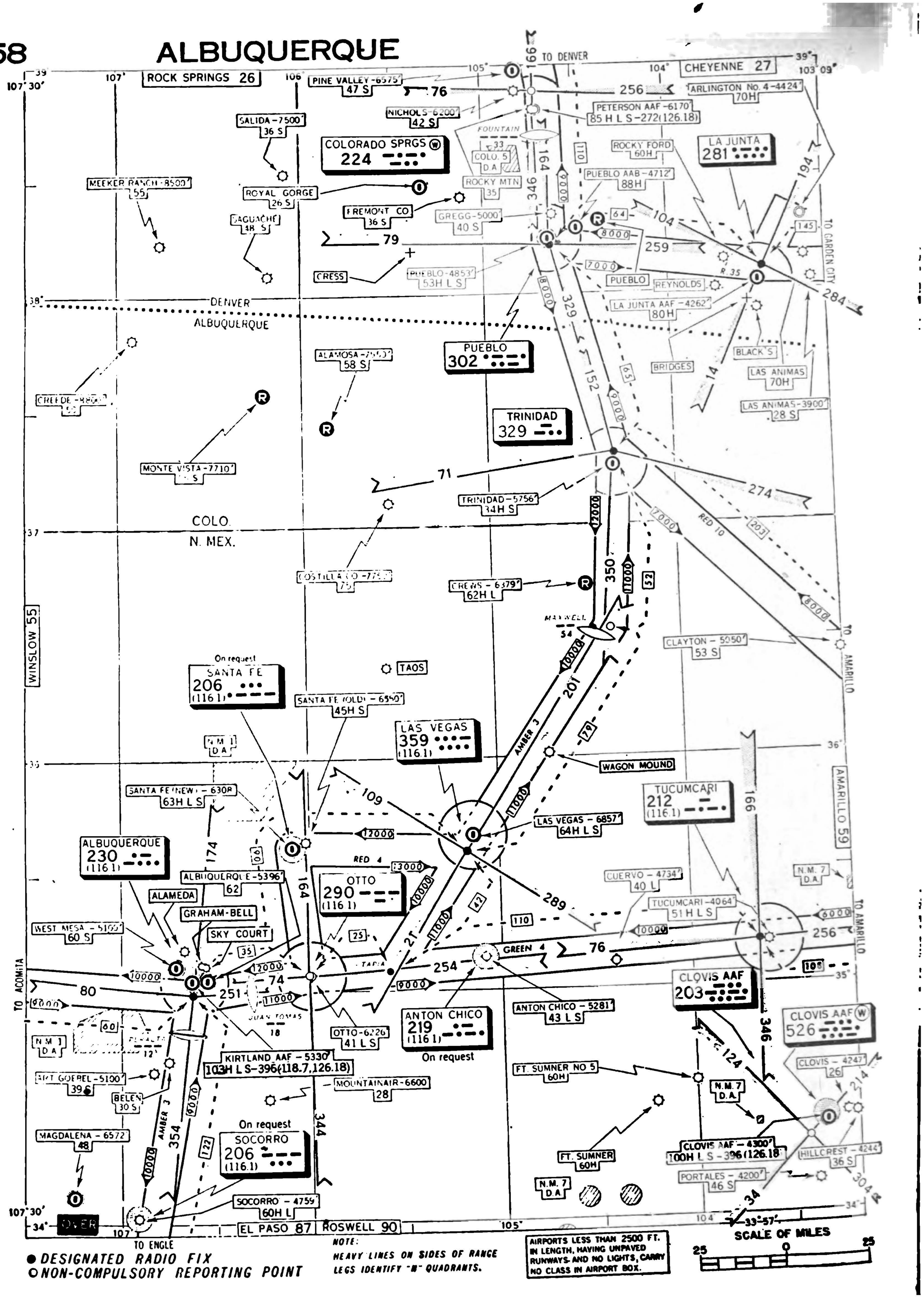
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamosa	2 S; hwy W	7550	58 L3 S4	80 oct. Fld lgts prior req.
(A) Arlington #4(La Junta)(A)	28 NNE	4424	70h	Arlington 3.3 WNW. INACTIVE.
Black's (La Junta)	4.8 S; riv 5 S	4250	21	
Costilla County(Mesita)	4 E; RR W	7750	75	
Creede	2 SSE; hwy NW	8800	50 S2	No fuel. Rough off strips.
Cress (Westcliff)	6 W	8000	30 S1	80 oct. Pole line E.
Fremont Co. (Canon City)	6.9 E; riv S	5350	36 S2	80 oct.
Gregg (Pueblo)	6 N; RR, hwy E	5000	40 S1	80 oct.
(A) La Junta AAF (A)	4.4 NNE; rd W	4262	80h R1	INACTIVE.
La Junta Bridges (La Junta)	3 SW; hwy E		30 S1	80 oct. Data not verified.
Las Animas	1.4 S; RR N	3900	28 S4	80 oct. Poles W.
Las Animas (La Junta)	19 NE	4119	70h	Las Animas 5.9 SSE.
Meeker Ranch (Gunnison)	23 SSE; riv E	8500	55	
Monte Vista	3.5 W; RR N	7710	55 S4	80 oct.
Nichols (Colorado Spgs)	2.8 NNR; hwy W	6200	42 S6	80,91 oct. Pole line SE,NE,N.
Ordway (NC)	0.9 S; RR N	4300	40	NOT MAINTAINED.
(A) PETERSON (Colorado Spgs)	6.3 E; hwy N	6170	85h R2 L5 S6	73,91,100 oct. No sto. (A)
Pine Valley(ColoradoSpgs)	9.2 N; hwy E	6575	47 S6	80,91 oct. Poles E,W,NNW.
(P) PUEBLO	2.1 SW	4853	53h R1 L5 S6	80,91 oct.
(A) Pueblo AAB (A)	7 NE; RR S	4712	88h	INACTIVE.
Reynolds (Rocky Ford)	3.5 SSW; hwy S	4250	21	Pole line NE
Rocky Ford (La Junta)	13.8 NW	4367	60h	Rocky Ford 6 S.
Rock Mtn.(Colorado Spgs)	6 ESE	6100	35 S2	No fuel.
Royal Gorge(Canon City)	6.4 NW; hwy N	6320	26 S2	80,91 oct. Pole lines N.
Saguache	2 W; hwy NE	7700	48 S1	80 oct.
Salida	4 W; RR S	7500	36 S2	80 oct.
Trinidad	10.5 ENE; hwy E	5756	34h R1 L1 S1	80 oct. Use rnwys only.

NEW MEXICO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alameda (Albuquerque)	7.4 N; RR E	5400	37	
Albuquerque	6.3 ESE; hwy N	5429	62	RFC surplus acft fld.
★ Anton Chico Int,78A,LA-AQ	4.5 SE; hwy E	5281	43 R1 L3 S1	91 oct.
Art Goebel (Belen)	3.2 W; RR E	5100	39 S1	Ltd 73 oct.
Belen Air Strip	2.7 N; RR E	5000	30 S1	73 oct.
Clayton	1.5 E; RR S	5050	53 S2	73 oct.
Clovis	0.8 NW; RR S	4247	26	
A) Clovis AAF (A)	6.5 W; RR N	4300	100hR3 L5 S6	73,91,100 oct.
P) Crews,42,EO-PU (Raton)	11.5 SSW; hwy W	6379	62h L2	
★ Cuervo Int,81B,LA-AQ	5 N	4734	40 L3	Poles W, lgtd.
Cutter-Carr #2 (Albuquerque)	3.6 NE; RR W	5120	46	Pole line ENE. (NC)
Eagle Nest Lndg Strip(NC)	1 NE	8450	40	11,000' mts NE. Use in emergency.
Pt. Sumner	1.5 NNE; RR S	4166	60h	
" " #5	16 ENE	4830	60h	
Graham-Bell(Albuquerque)	4.5 ENE	5400	27 S6	73,91 oct.
Hillcrest (Clovis)	2.1 E; RR S	4244	36 S4	73 oct. No sto. Pole line S.
✎ Holbrook's (Cuervo)(NC)	0.8 NE; RR S	4810	19	300' mt. S
A) KIRTLAND (Albuquerque)(A)	3.8 SSE; rd N	5330	103hR2 L6 S6	73,91,100 oct. JP-1. No sto.
LAS VEGAS	6 NE; RR W	6857	64h R1 L5 S6	80,91 oct.
Magdalena	0.8 N; RR S	6572	48 S1	Ltd 73 oct. Pole line SW.
Maxwell (NC)	1.7 N; hwy E	6000	36	
Mountainair	1.1 NNE; RR S	6600	28	Pole line N.
★ Otto Int,73A,IA-AQ	5.8 N Moriarty	6226	41 R1 L3 S1	Ltd 80,91 oct.
Portales	4.5 SW; RR NNW	4200	46 S1	73 oct.
Roy (NC)	1.5 N; RR W	5900	26	PRIVATE
SANTE FE (new)	5.8 WSW; hwy SE	6308	63h R1 L5 S1	91 oct airlines. Poles E.
" (old)	6.3 SW; hwy E	6550	45h S6	73,80 oct; 91 oct in emerg.
Sky Court (Albuquerque)	5.6 ENE; hwy S	5400	30 S6	73 oct. No sto.
Socorro	2.5 S; hwy E	4759	60h R1 L5	Use rnwys only.
Taos	1.7 SSW; hwy W	6956	29	Poles ENE,WSW,WNW.
Tucumcari	7 E; hwy, RR S	4064	51h R1 L5 S6	80,91,100 oct.
Wagon Mound	0.6 WNW; RR E	6500	21	Pence N; mts SE, W.
West Mesa (Albuquerque)	3.8 W; hwy S	5100	60 S6	73,80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

58 ALBUQUERQUE



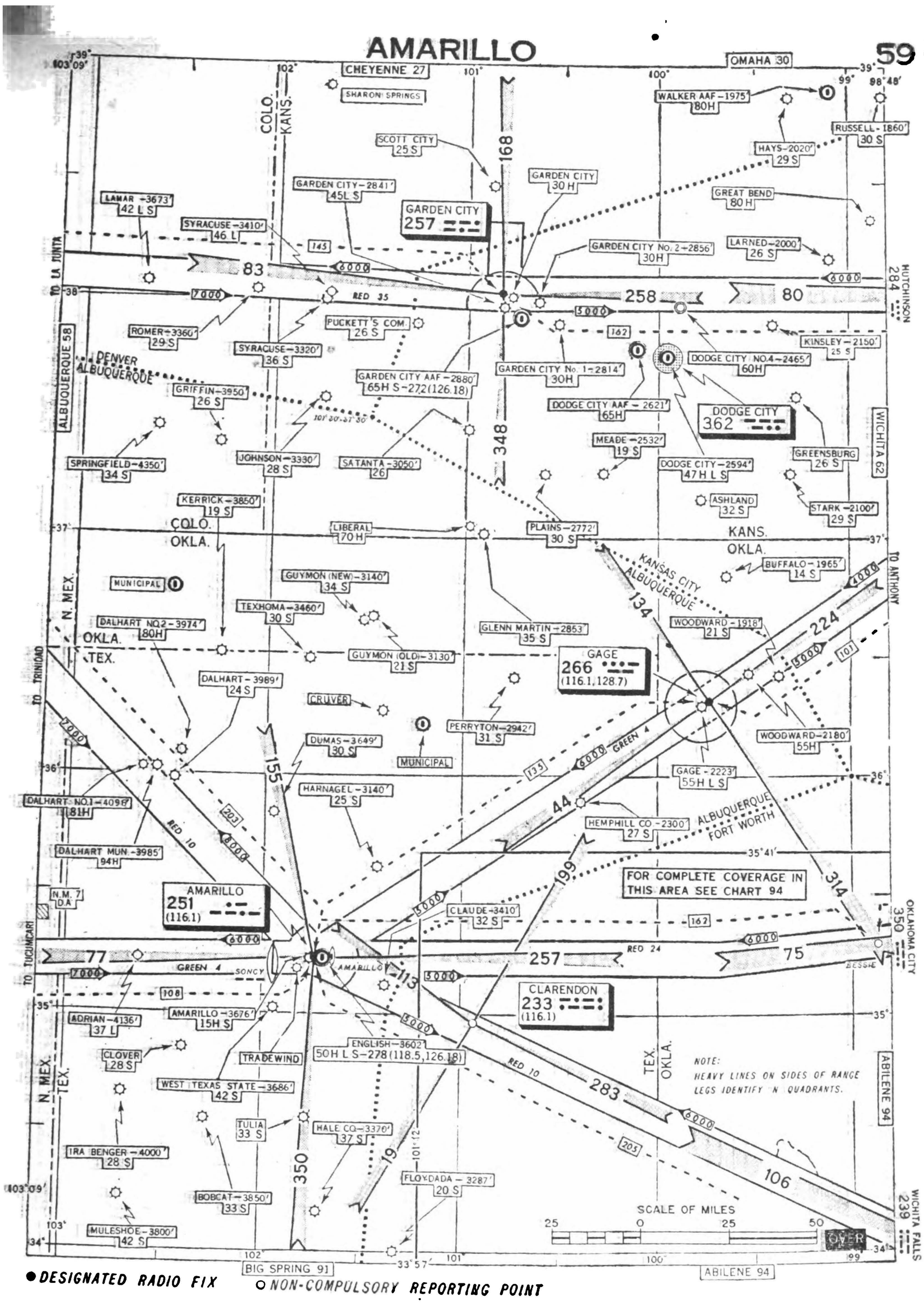
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
25 0 25

AMARILLO



● DESIGNATED RADIO FIX ○ NON-COMPULSORY REPORTING POINT

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DODGE CITY	362 (OD)	MHT	(4)
GARDEN CITY	257 (GK)	SBRAZ-DT,168°,2.75	(4)
Garden City AAF	272 (126.18)	CA	(4): 126.18 (8-17)
OKLAHOMA			
GAGE	**266 (VM)(116.1)**	**SBRAZ-VDT,224°,2.1**	**(4): 116.1**
TEXAS			
AMARILLO	251 (AQ)(116.1)	SBRAZ-VDT,77°,2.1 to English Fld	(3): 116.1
AMARILLO LFM	(-)	LFM, 77°, 4.9	Amarillo
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°,2	(4), 116.1
ENGLISH FIELD (Amarillo)	278 (118.5) (126.18)	AC (ILS)	(4):126.18,118.5,131.9
SONCY FM	(- - -)	FM, 257°, 11.5	Amarillo

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ENGLISH, TEX.	110.3	335	209° Mag.	IM	MM .--- (.62)	OM -- (4.35)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station: (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Griffin (Walsh)	0.7 N,RR S	3950	26 S6	80 oct. Poles S.
Lamar,10,PU-WD	3.7 WSW,RR N	3673	42 L3 S2	80 oct
Romer (Holly)	1.5 SSE,riv N	3360	29 S1	Ltd 80 oct. Pole line SW, NW.
Springfield, Com.	3.8 N,hwy W	4350	34 S1	73 oct. Poles NW, W, SW.
Trading Post (Kit Carson) (NC)	0.8 NW,crk E	4290	40	PRIVATE. Pole line S.
KANSAS				
Ashland	1 E, RR S	1940	32 S2	80 oct. Poles S, E.
DODGE CITY	3.5 ENE,RR SE	2594	47h R1 L3 S6	80,91 oct. Fld lgts prior req.
(A) Dodge City AAF (A)	6 NW, RR S	2621	65h	INACTIVE.
(A) Dodge City No. 4 (A)	17.4 NNE	2465	60h	INACTIVE.
GARDEN CITY MUN	3.3 E,riv S	2841	45 R1 L3 S6	73,80 oct. Lgts prior req.
(A) Garden City AAF (A)	9 ESE,riv S	2880	65h R1 S1	91, 100 oct.
Garden City No. 1	19.5 ESE	2814	30h	
Garden City No. 2	13.4 E	2856	30h	
Garden City No. 3	6 ENE	2917	30h	
Glenn Martin(Liberal)	2 ESE,hwy SW	2853	35 S2	80 oct. Pole line SE,SW.
Great Bend	4.5 WSW	1883	80h	
Greensburg	1 ESE,RR N	2230	26 S1	80 oct. Poles N.
Hays	1.5 E,RR S	2020	29 S6	80, 91 oct.
Johnson	0.5 N,hwy W	3330	28 S6	80 oct. Pole line N,NW,NE,S.
Kinsley	1.5 SSE,riv SE	2150	25 S1	80 oct. Pole line W.
Larned	2 NW,rds E,S	2000	26 S6	80 oct.
Liberal	1.5 WNW	2888	70h	
Meade	3 ESE,hwy N	2532	19 S2	80 oct.Use strips only.Pole line N.

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Plains	1.3 NNE,hwy N	2772	30 S2	80 oct. Pole line S, E.
Pucketts Com.(Lakin)	3.5 S,riv N,NW	3050	26 S1	Ltd 80 oct. Trees N.
Russell	2.7 ESE,RR NE	1860	30 S4	80 oct.No sto. Poles N,S,NE.
Satanta	1 N,RR S	3050	26 S2	No fuel.
Scott City	1.3 ESE,hwy N	2980	25 S1	73 oct. Pole line N,NE,NW,SW.
Sharon Springs	1.2 NNW,RR S	3500	32 S1	80 oct. Pole line E.
Stark (Coldwater)	0.7 NE,RR SE	2100	29 S2	80 oct. Poles N,S,E,SE,NE.
Syracuse	1 N,riv S	3320	36 S2	80 oct. Pole line S,SE.
★ Syracuse Int,16,PU-WD	3.7 NNE,hwy W	3410	46 L3	
(A) Walker AAF (Hays)(A)	12.5 E,hwy S	1975	80h	INACTIVE.
OKLAHOMA				
Buffalo	0.6 NW,crk N	1965	14 S2	80 oct.
(P) Gage	1.8 SW,riv N	2223	55h R1 L5 S1	80 oct.
Guymon (new)	3 SW,hwy N	3140	34 S6	73, 80 oct. Pole lines N, E.
Guymon (old)	0.7 S,RR,hwy W	3130	21 S6	73 oct. Pwr line N, S. No sto.
Municipal (Boise City)	3 N,hwy W	4200	33	
Woodward	7.5 W,hwy S,E	2180	55h	
Woodward (mun.)	1.5 SE,hwy W	1918	21 L1 S6	80 oct.
TEXAS				
★ Adrian Int,91,LA-AQ	4.2 SSE,RR N	4136	37 L3	
Amarillo	6 ENE,RR NW	3676	15h S6	73 oct. Pole line N,S.
Bobcat (Dimmitt)	1.5 E,RR W	3850	33 S2	73 oct.
Claude	1.2 WNW,RR N	3410	32 S1	73 oct. Pole line S,N,NW.
Clover (Hereford)	2.2 NNE,hwy S	3800	28 S2	73 oct. Pole line N,E,SE.
Cruver	0.7 WNW,RR E	3200	40	Pole line W,E,SE,SW.
Dalhart	6.2 SSE,RR E	3980	24 S6	73 oct.
Dalhart mun.	3 8 SSW;RR N	3989	94h	
Dalhart No. 1	9.7 WSW;RR,hwy E	4096	81h L	
Dalhart No. 2	5.5 NE,hwy NW	3974	80h	
Dumas	0.7 S,hwy W	3649	30 L S2	73 oct. Poles N.
(A) English (Amarillo)	9 ENE,RR N	3602	50h R3 L6 S6	100 oct. Poleline N,NW.
Floydada	1.2 NNW,RR N	3287	20 S1	80 oct. Pole line S. RR SW.
Hale Co. (Plainview)	1.6 S,hwy E	3370	37 S6	80,91 oct.
Harnagel (Borger)	2.5 SSW,RR N	3140	25 S2	80 oct. Use strips. RR E.
Hemphill Co.(Canadian)	1.5 SW, riv N	2300	27 S2	Ltd 73 oct.
Ira Benger (Friona)	1.8 NE,RR S	4000	28 S2	73 oct.
Kerrick	1.5 N, RR SW	3850	19 S1	80 oct. Pole line SW.
Muleshoe	1 ENE,hwy N	3800	42 S1	73 oct.
Municipal (Spearman)	0.8 NW,RR SE	3104	30	Pole line.
Perryton	3 ENE,hwy N	2942	31 S2	73 oct. Pole line E.
Texhoma	1 SSW,RR N	3460	30 S2	73,91 oct.Pole line N.
Tulia	1.5 NNW,RR W	3500	33 S1	73 oct. Pole line NE,E,SE.
West Texas State (Canyon)	3 N,hwy E	3686	42 S6	73 oct. 20' Poles SE.
Tradewind (Amarillo)	1.5 SE	3636	30 S6	Data not verified.

RADIO — KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS: GUARDED, HRS. OF OPER., REMARKS
ANTHONY	382 (AY)	MHT	(4)
CASSODAY (Int.)	259 (CY)	MHT	(4)
HUTCHINSON	284 (HN)	SBMRLZ-DT;350°,3.4	(4)
→ Hutchinson NAS	323(142.74 on req)	CN	(3); 142.74 (2 hrs adv notice)
KECHI FM	(- - - -)	FM, 341°,10.6	Wichita
OXFORD FM	(- -)	FM; 167°, 27	Wichita
SALINA	108.3 (NS)	VARW	
SMOKY HILL (Salina)(Army)	344 (DSN)	BMRLZ-DT	(4)
Smoky Hill AAP	396(116.1)(126.18)	CA(ILS);170°,5.05	(4); 116.1,126.18
TOWANDA FM	(-)	FM, 46°,18.8	Wichita
VIOLA FM	(- - -)	FM, 226°, 24.7	Wichita
WICHITA	332 (WD)	SBRAZ-DT	(3)
Wichita Airport	279(126.18)(118.7)	AC(ILS);167°,0.9	(4);131.9,126.18,118.7

OKLAHOMA

ENID(Army)	209 (DND)	BMRLZ	(3); 126.18
Enid AAP	396 (126.18)	CA; 214°,3.7	(3); 126.18)
PHILLIPS ARPT(Bartlesville)	278	CI	3105 (Cn req)
PONCA CITY	368(PC)(116.1)	MHVT	(4); 116.1
RED FORK FM	(- - -)	FM, 325°,13.7	Tulsa
SKIATOOK FM	(- - - -)	FM, 298°,17.8	Tulsa
TULSA AIRPORT	278(126.18)(118.5)	AC	(4);142.74,131.9,118.5, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SMOKY HILL AAF, KANSAS	109.9	333.8	123° Mag.	IM (.19)	MM ·····(.89)	OM -- (4.20)
					MMK	OMK
WICHITA, KANS.	110.3		2° Mag.	IM ·····(.05)	MM	OM -- (5.37)
					MMK	OMK

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs; (4)-3105,4495,6210,3117.5 kcs; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — KANSAS

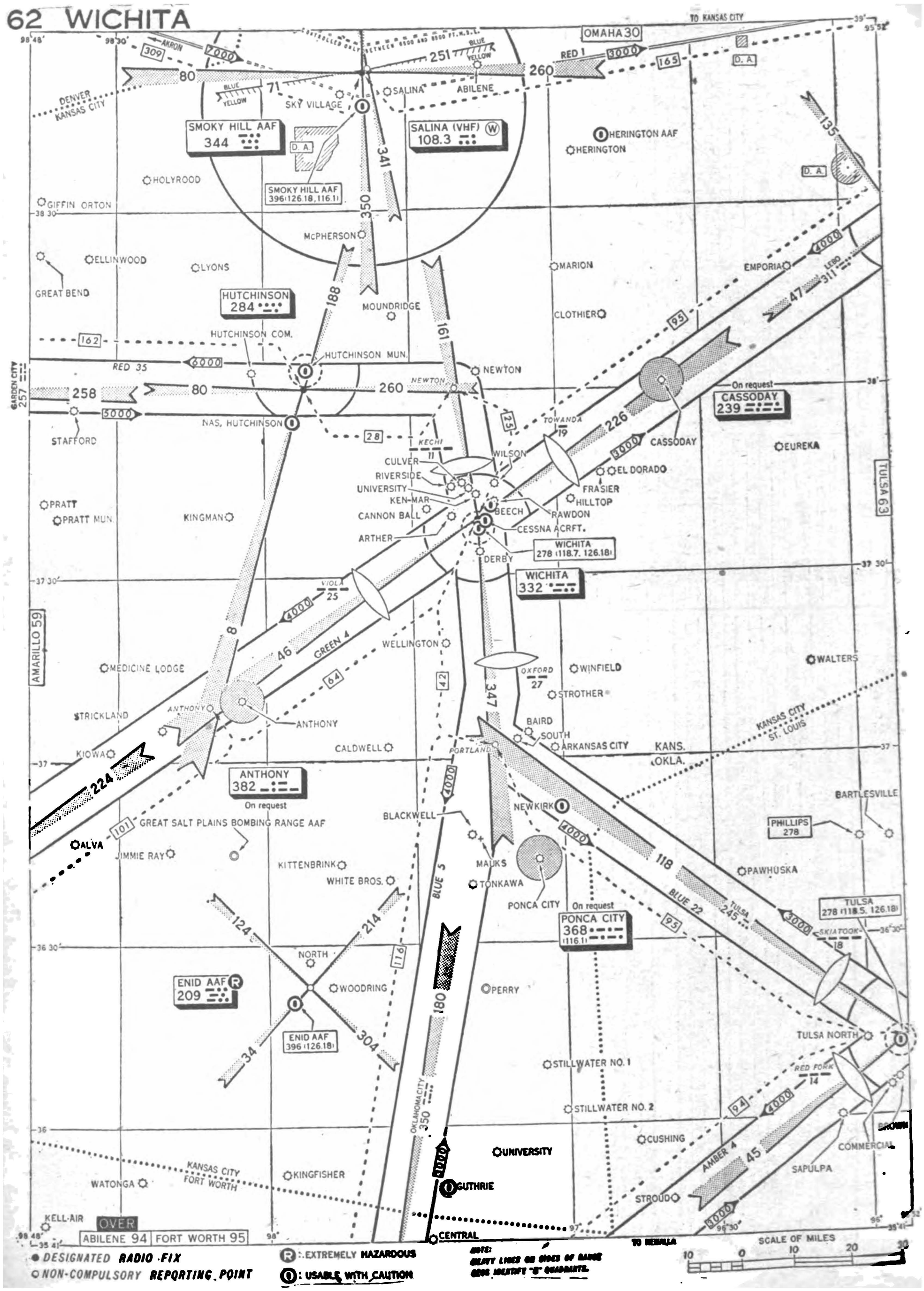
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abilene	1.7 WSW; RR N	1100	29 S6	80 oct. Trees E;pole line SE.
(P) Anthony,24,AQ-KC	3 WNW; hwy S	1339	48 R1 L3 S6	73,91 oct. →
Arkansas City	3.5 S; RR W	1067	28 S6	73, 91 oct.
Arther Airfield (Wichita)	3 SW; RR N	1290	26 S6	73,91 oct. No sto.Poles S.
Baird (Arkansas City)	4 W; hwy S	1100	17 S2	73 oct. Pole line SW, S.
Beech (Wichita)	6 E; hwy N	1378	46h	Factory use only.
Caldwell	1.2 E; RR W	1140	21 S2	73 oct. Poles E, S
Cannon Ball (Wichita)	6.5 WSW;hwy N	1300	24 S6	80 oct. No sto.Pole line N.
★ Cassoday Int,34,AQ-KC	1 SSE; hwy W	1480	32 R1 L3	Twrs S.
Cessna Aircraft (Wichita)	4.5 SE; hwy W	1369	53 S1	80 oct.
Clothier (Cedar Point)	4 SSW;creek E	1320	20 S2	73 oct.
Culver (Wichita)	4 N; hwy W	1320	15h	
Derby	1 NNE; RR W	1305	24 S1	73 oct. Poles N.
El Dorado	3.6 SE; hwy W	1400	25 S6	80 oct. Soft, wet weather.
Ellinwood	1.5 NW; RR S	1790	26 S1	73 oct. Poles N.
Emporia	5.4 S; hwy E	1200	26 S6	80 oct. Poles E,SE,NE.
Eureka	3.2 E; RR N	1100	21	Pole line S.
Frasier (El Dorado)	2.5 S; riv W	1300	25 S6	80 oct. Poles E, NE.
Giffin-Orton (Hoisington)	1.3 NE; hwy S	1870	25 S2	80 oct. Poles S.
Great Bend Airpark	1.6 NNE; RR W	1850	26 S2	80 oct. Poles W.
Herington	1.5 SE; RR W	1450	17 S2	73 oct. Pole line N.
(A) Herington AAF (A)	7.5 ENE	1485	69h	INACTIVE.
Hilltop (Augusta)	2 NE; RR SE	1260	20 S1	73 oct.
Holyrood	0.5 ESE; RR N	1820	17 S1	73 oct. Poles N.
Hutchinson,com	5.5 W; riv NE	1605	20 S4	80 oct.
(P) HUTCHINSON,MUN.	4 ENE; hwy S	1542	70h R1 L5 S6	80,91 oct. Svcg
(N) " NAS (N)	8.9 S;RR NNE	1582	70h R1 L5 S5	91,100 oct,CLOSED. prior req.
Ken-Mar (Wichita)	3 ENE; RR N	1375	23 S6	80 oct.No sto. Obsts sur fld
Kingman	1.5 NNW;RR SW	1600	26 S1	73 oct. Trees S, SW
Kiowa Flying Serv.(Kiowa)	2.5 WNW; RR S	1375	19 S1	80 oct. Pole line NNW,SSW.
Lyons	1.4 W; hwy N	1950	26 S6	80 oct. Pole line N.
McPherson	4 NNE; RR W	1500	26 S6	80 oct. Soft when wet.Poles E.
Marion	1.8 ESE;RR W	1370	36 S2	80 oct. Pole line SE.
Medicine Lodge	2.1 SE; RR S	1520	33 S2	80 oct.
Moundridge	2.2 WNW; RR NE	1485	17 S2	Ltd 80 oct. Poles W.
→ Newton	4 ENE; rd S	1527	70h S6	80,91 oct.Pole line W,N.
Pratt Mun.	2.5 ENE;hwy S	1916	25 S6	73,80 oct.
Pratt	4 N; hwy E	1960	80h	
Rawdon (Wichita)	6.7 E; hwy S	1396	26 S6	73 oct.
Riverside (Wichita)	4 NNW; riv E	1310	26 S1	80 oct. Poles sur fld.
Salina	2.5 SE;riv W	1275	26 S6	80,91 oct.
Sky Village (Salina)	6.6 WSW;RR SE	1270	20 S2	80 oct. Pole line S.
(A) Smoky Hill AAF(Salina)	4.5 SW; RR E	1289	100hR3 L5 S4	73,91,100 oct. No sto. (A)
South (Winfield)	14 SSW	1230	40h	
Stafford	2.6 WSW;RR N	1889	26 S6	80,91 oct. Poles N, S.
Strickland (Hazelton)	2.6 E; RR S	1310	26 S6	73,80 oct. Poles E, N.
(P) Strother (Winfield)	5 SSW;hwy S	1150	58h	
University (Wichita)	5 NE; RR N	1350	27 S6	80,91 oct. Pole line E.
Walters (Sedan)	8 N; hwy W	1000	26	PRIVATE.
Wellington	3.5 N; RR W	1290	23 S2	80 oct. Pole line W,E,S.
(A) WICHITA	5.3 SE; hwy W	1373	75h R3 L5 S6	80,91,100 oct.50' pole N.
Wilson (Wichita)	7.5 NE;RR N	1410	29 S6	73 oct. No sto.
Winfield	2 E; RR S	1200	22 S2	73 oct.Lgt acft only.Pwr lineN.

OKLAHOMA

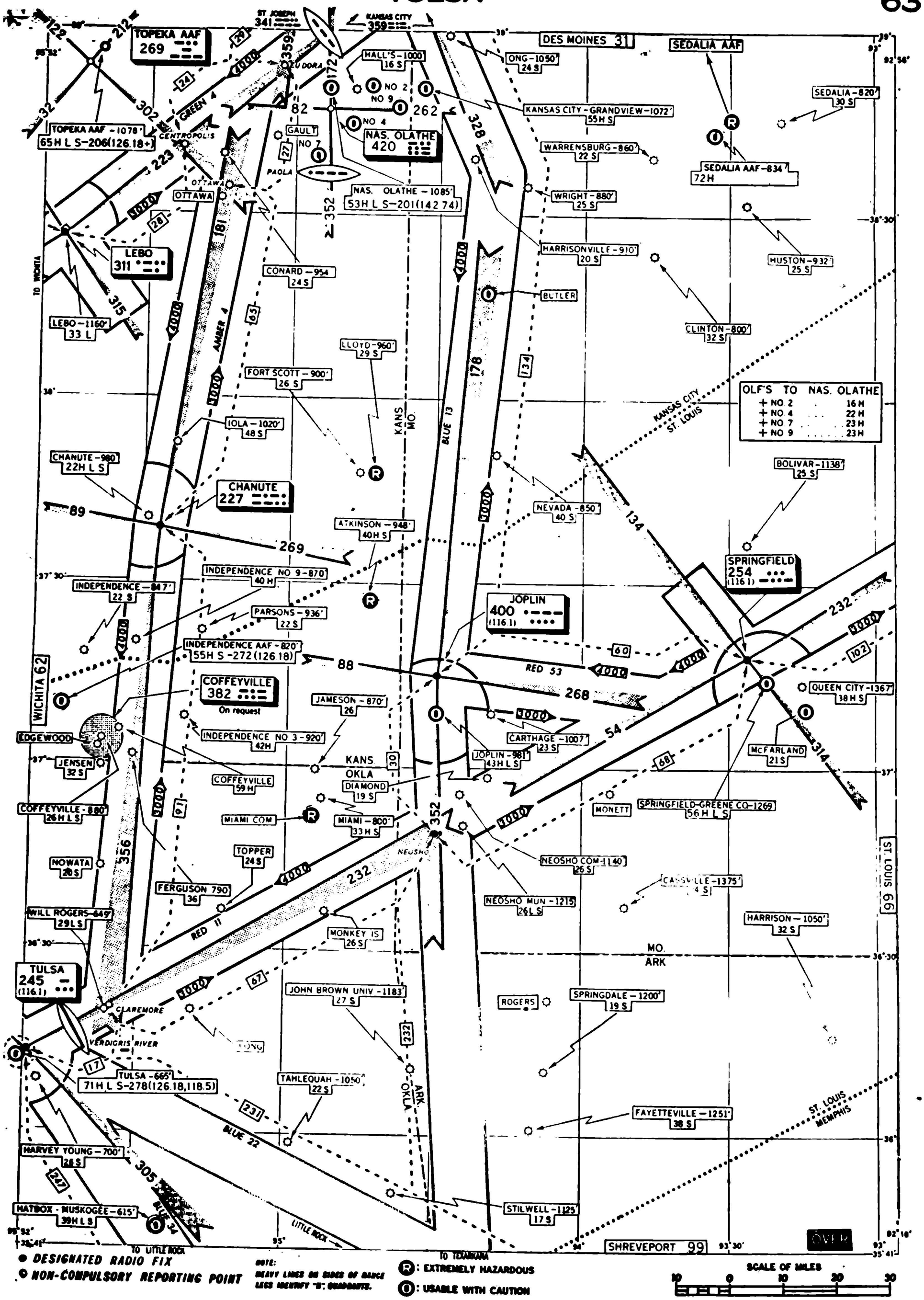
Alva	1.4 S; RR N	1320	26 S1	73 oct.
Bartlesville	4 E; rd S	720	34 S6	80 oct.
Blackwell	1.7 W; RR N	1000	32 L4 S6	80 oct.
Brown (Tulsa)	6 SE	735	31 S6	80,91 oct. Pole NW.
Central (Edmond)	2.6 NNE;RR W	1211	24 S1	73 oct.
Commercial (Tulsa)	5.4 SSE;hwy N	700	29 S6	73,80,91 oct. Trees SW.
(P) Cushing	2 S; RR E	913	52h L5 S6	73,80 oct.
(A) Enid AAF (A)	4 SSW; RR E	1287	56h R2 L5 S4	73,100 oct.
(A) Great Salt Plains (Jet)	6 NNE;dam 1 N	1200	55h L5	(A)
★ Guthrie Int,21,PV-WD	2 SSE;hwy W	1052	26 L3 S6	80 oct.
Jimmie Ray (Cherokee)	1.5 E; RR SW	1200	26 S1	80 oct. Trees S.
→ Kell-Air (Thomas)	1.2 SW; RR N	1730	24 S2	80 oct.
Kingfisher	1.3 NW; RR W	1060	24 S6	73 oct.
Kittenbrink (Jefferson)	2 E; RR W	1100	23 S2	80 oct. Trees N.
Newkirk Skypark	2.5 SE; RR SW	1140	32	Pole N, NW.
North (Enid)	3.8 N; RR E	1265	26 S6	80 oct.
Pawhuska	3.8 W; RR E	1000	27 S1	80 oct. Pole line NE.
(A) Perry (A)	6.6 N; hwy W	1008	52h	
Phillips (Bartlesville)	1.7 WNW;hwy S	750	32h R1 L4 S2	80,91 oct.
PONCA CITY	2.3 NNW;RR S,E	998	36h R1 L4 S6	73,87 oct. Antenna bet twr and
Sapulpa	1.5 ENE;RR W	730	26	Pole line S. hangar, lgtd.
(P) Stillwater #1	3.2 NNW;hwy E	985	50h L3	
" #2	5.6 SSE;hwy W	980	29 S6	73,80 oct.
★ Stroud Int,29A,AQ-LS	3 N; hwy W	883	27 L3	Pole line W lgtd.
Tonkawa	1.6 S;riv NW	1000	25 S1	73 oct. Pole line S, E.
(A,N)TULSA AIRPORT	6.2 NE;RR S	665	71h R2 L5 S6	80-100 oct. NATS,NAPC.
Tulsa North (Tulsa)	4.5 NNW;RR E	700	25 S2	80,87 oct.Poles S,SW,SE.
University (Langston)	1 S; rd N	1025	26	Bldg SE corner.
Watonga	1.2 NW;riv SW	1460	16 S6	80 oct. Poles S.
White Brothers (Lamont)	2 WSW; RR E	1000	25 S1	73 oct.
(P) Woodring (Enid)	5 ESE; RR NW	1159	65h L S2	80 oct. Port rnwy lgts prior req.
Mauka (Blackwell) Okla.	0.5 S	987	26 S1	80 oct.Data unverified by CAA.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii)(NC)-Not charted. → NEW OR REVISED DATA

62 WICHITA


TO KANSAS CITY
OMAHA 30
AKRON
309
7000
CONTROLLED ONLY BETWEEN 6500 AND 8500 FT. M.S.L.
251
BLUE YELLOW
RED 1
3000
260
165
D. A.
80
BLUE YELLOW
71
DENVER KANSAS CITY
SKY VILLAGE
SALINA
ABILENE
SMOKY HILL AAF 344
SALINA (VHF) W 108.3
HERINGTON AAF
HERINGTON
135
SMOKY HILL AAF 396 (126.18, 116.1)
HOLYROOD
GIFFIN ORTON
38 30'
341
350
McPHERSON
ELLINWOOD
LYONS
MARION
EMPORIA
4000
LEBO
311
47
GREAT BEND
HUTCHINSON 284
188
MOUNDRIDGE
CLOTHIER
95
162
HUTCHINSON COM.
161
HUTCHINSON MUN.
RED 35
6000
NEWTON
GARDEN CITY 257
258
80
260
NEWTON
On request
38'
CASSODAY 239
5000
NAS, HUTCHINSON
25
TOWANDA
19
226
STAFFORD
28
KECHI
11
CASSODAY
3000
EUREKA
CULVER
WILSON
EL DORADO
TULSA 63
RIVERSIDE
UNIVERSITY
KEN-MAR
FRASIER
PRATT
PRATT MUN.
KINGMAN
CANNON BALL
BEECH
HILLTOP
RAWDON
CESSNA ACRFT.
ARTHER
WICHITA 278 (118.7, 126.18)
DERBY
WICHITA 332
37 30'
VIOLA
25
4000
AMARILLO 59
8
46
GREEN 4
WELLINGTON
WALTERS
MEDICINE LODGE
64
42
OXFORD
27
WINFIELD
347
STROTHER
STRICKLAND
ANTHONY
ANTHONY
BAIRD
SOUTH
ARKANSAS CITY
KANS.
OKLA.
KANSAS CITY
ST. LOUIS
KIOWA
CALDWELL
PORTLAND
37
224
ANTHONY 382
On request
4000
BLACKWELL
NEWKIRK
BARTLESVILLE
PHILLIPS 278
GREAT SALT PLAINS BOMBING RANGE AAF
101
ALVA
JIMMIE RAY
KITTENBRINK
MAUKS
118
PAWHUSKA
WHITE BROS.
BLUE 5
TONKAWA
PONCA CITY
On request
PONCA CITY 368 (116.1)
BLUE 22
95
TULSA 245
3000
TULSA 278 (118.5, 126.18)
SKIATOOK
36 30'
18
124
214
NORTH
116
ENID AAF R 209
WOODRING
PERRY
180
304
ENID AAF 396 (126.18)
34
TULSA NORTH
STILLWATER NO. 1
RED FORK
14
OKLAHOMA CITY
350
STILLWATER NO. 2
94
4000
36
CUSHING
BROWN
COMMERCIAL
UNIVERSITY
AMBER 4
45
SAPULPA
KANSAS CITY
FORT WORTH
WATONGA
KINGFISHER
GUTHRIE
STROUD
3000
KELL-AIR
OVER
ABILENE 94
FORT WORTH 95
98 48'
35 41'
98'
97'
96 30'
95'
35 41'
TO REMILLA
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES OR SIDES OF BLOCK
GIVE MINIMUM "E" QUADRANTS.

TULSA



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE: HEAVY LINES ON SIDES OF AIRWAY LEGS IDENTIFY "R" QUADRANTS.

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

SCALE OF MILES

10 0 10 20 30

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE	227 (CZ)	SBRAZ-DT,304°,2.5	(4)
COFFEYVILLE	382 (KV	MHT	(4)
DE SOTO FM	(- - -)	FM; 224°, 19.6	Kansas City, Mo.
INDEPENDENCE AAP	272 (126.18)	CA	(3); 126.18 (8-20)
LEBO (Int)	311 (LN)	BMLZ-DT, 336°, 0	(4)
OLATHE (Navy)	420 (NUU)	BMRLZ	
Olathe NAS	201 (142.74)	CN;352°, 2.9	(3); 142.74 (8-18)(GCA)
PAOLA FM (Navy)	(. - - -)	FM; 172°, 12	Olathe
TOPEKA (Army)	269 (DTO)	BMRAZ	(4)
Topeka AAP	206 (116.1) (126.18)	CA;320°,3.4	(3); 116.1,126.18

MISSOURI

JOPLIN	400(JH)(116.1)	BMRLZ-VDT,172°,6.2	(4); 116.1
SPRINGFIELD (Greene Co.)	254(SX)(116.1)	SBRAZ-VDT,134°,4.3	(4); 116.1

OKLAHOMA

TULSA	245(TS)(116.1)	SBRAZ-VDT	(3); 116.1
Tulsa Airport	278 (126.18) (118.5)	AC; 225°, 1	(4);142.74,131.9,118.5,126.18
VERDIGRIS RIVER FM	(-)	FM;54°,9.6	Tulsa

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Berryville (NC)	1.3 WNW;RR E	1150	13	Trees S.Cattle on fld.
Fayetteville	3.8 S;RR W	1251	38 S6	73 oct.
Harrison	4.1 NW;RR S	1050	32 S1	80 oct.
→ Rogers	2.7 N;RR S	1325	32 S1	80 oct.Pole line SE.
Springdale	0.8 SSE;hwy W	1200	19 S4	80 oct.Pole line NW,SE.

KANSAS

Atkinson (Pittsburg)	2.5 NW;RR W	948	40h S6	80 oct. Flares on req.
Chanute	2 WSW;hwy NW	980	22h R1 L4 S6	80,91 oct.
Coffeyville	5 NNE	743	59h	
" mun.	2 NW;riv E	880	26h R1 L3 S6	73,90 oct.Poles NW;hi-line SW.
Conard (Ottawa)	3.8 NNE;RR S	954	24 S1	80 oct.Pole line N;hedge S.
Edgewood (Coffeyville)	2.5 WNW;RR E	745	25 S1	80 oct.Pole line E,S.
Ferguson Flying Field (Coffeyville)	5 E;RR NW	790	36	Poles S.
Fort Scott	4.5 SW;hwy S	900	28 S2	80 oct.
Gardner (NC)	1.4 WSW;hwy S	1070	39	
Gault (Wellsville)	0.8 ESE;RR N	1020	20 S1	80 oct.Trees E.
Girard	1.7 WNW;RR E	950	14	Trees E.
Hall's (Olathe)	2.6 SSE;RR W	1000	16 S2	73 oct.Cattle on fld.Pole line N.
Independence	5 N;hwy W	847	22 S4	73,91 oct.Pole line W.
(A) " AAF (A)	5.5 SW;hwy W	820	55h R1 S1	91,100 oct.
" #3	24 ESE	920	42h	
" #9	12.5 NE	870	40h	
(P) Iola	3.2 SSE;rd N	1020	48 S6	73,80 oct.
★ Lebo Int,39,AQ-KC	4 ENE;RR N	1160	33 R1 L3	
Lloyd (Ft. Scott)	3.8 SSW;RR SE	960	29 S2	80 oct.Pole line NE.
Mader (Garnett)(NC)	2 WNW;hwy S	1060	26	
(N) Olathe NAS (N)	5.2 SW;RR W	1085	53h R2 L5 S6	100 oct. NATS
(N) " OLP #2 (N)	5 SE	1090	16h	INACTIVE.4 W of Stanley.
(N) " OLP #4 (N)	10 S	1090	22h	1.3 SE of Springhill.INACTIVE.
(N) " OLP #7 (N)	16 SSW	940	23h	4.3 W of Hillsdale.INACTIVE.
(N) " OLP #9 (N)	11 SE	1070	23h	1 N of Stillwell.INACTIVE.
Ottawa	5.3 S;RR W	975	32	
Parsons	2 NW;RR S	936	22 S2	80 oct.Soft in wet weather.
(A) Topeka AAP (A)	6 S;RR W	1078	65h R2 L5 S6	73,91,100 Oct.JP-1. No sto.

MISSOURI

Bolivar	1.8 WSW;hwy N	1138	25 S2	80 oct.Poles N.
Branson (NC)	4 W;hwy W	1069	21	Trees SW.
Carthage	2 S;hwy E	1007	23 S4	80 oct.Pole line W,SW.
Cassville	3.9 S;hwy E	1375	24 S2	80 oct.Trees SW.
Clinton	2 NE;RR SE	800	37 S4	80 oct.Poles SW,S,E,N.
Diamond	2.1 SSW;RR S	1150	19 S2	80 oct.Pole line N,NE,SE.
(P) Grandview (Kansas City)	16.4 S;RR E	1072	55h L5 S2	80,91 oct.Fld lghts prior req.
(P) GREENE CO. (Springfield)	5.5 WNW;RR NE	1269	56h R1 L5 S5	80,91,100 oct. JP-1
Harrisonville	2.1 W;RR N,S	910	20 S1	73 oct. Fld rough.
Huston (Windsor)	4.3 E;hwy N	932	25 S1	80 oct.
JOPLIN	5 NNE;RR N	981	43h R1 L4 S4	80,91 oct.
McFarland (Springfield)	4 SSE;RR S	1310	21 S4	73,80 oct.
Neosho com.	4.8 NNW;hwy W	1140	26 S1	80 oct.Poles SW.
" mun.	2.8 SW;hwy E	1215	26 L3 S2	80 oct.Poles N,antenna E.
(P) Nevada	3 NE;hwy N	850	40 S4	73 oct.Pole line SW,W.
Ong (Kansas City)	9 SE;hwy NE	1050	24 S6	73,80 oct.Pole line N,W.
Queen City (Springfield)	2.1 E;hwy W	1367	38h L3 S4	73-91 oct.Lgts prior req.
Sedalia	6.3 NW;RR S	820	30 S6	80 oct.Poles S.
(A) " AAF (A) (Knobnoster)	2.8 S;hwy N	834	72h	INACTIVE.
Warrensburg	7.3 SSW;hwy E	860	22 S6	80 oct.
Wright (Garden City)	1.4 NNW hwy SW	880	25 S1	80 oct.Pole line S.
Butler	1.5 N		25 S2	80 oct. Data unverified.
Monett	0.5 NE; hwy S	1462	24 S2	80 oct.

OKLAHOMA

Harvey Young (Tulsa)	8.8 E;hwy N	700	26 S6	80 oct.
Hatbox (Muskogee)	2.7W;fork RRs	615	39h L3 S6	73,80 oct.All lgts prior req.
Jameson (Picher)	4.5 W	870	26	
Jensen (South Coffeyville)	0.5 W;RR S,E	735	32 S4	80 oct.Pole line SE.
John Brown Univ. (Mosley)	3.6 ESE;hwy S	1183	27 S4	80 oct.
Long (Pryor)	2 NNE;RR W	650	16 S2	80 oct.Pole line SW.
Miami	2.2 NNW;RR E	800	33h L4 S2	80,91 oct.
→				
Monkey Island (Afton)	7.8 SE;RR NW	750	26 S1	80 oct. Pole line W.
Nowata	1.6 NNE;RR W	600	20 S1	80 oct.
Stilwell	1.4 N;RR W	1125	17 S2	80 oct.
Tahlequah	4.3 N;rd E	1050	22 S4	80 oct.
Topper (Vinita)	3.9 SW;RR ESE	800	24 S1	73 oct.
(A,N) TULSA AIRPORT	6.2 NE; RR S	665	71h R2 L5 S6	80-100 oct. NATS,NAFC.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.

ST. LOUIS

RADIO

ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
WALNUT RIDGE	362 (DWR)	MRLWZ,174°,5	
MISSOURI			
COLUMBIA	379 (CA)	SBRAZ-DT,89°,3.9	(4)
NEW FLORENCE (Int.)	385 (ST)	MHT	(4)
ST. LOUIS	209 (LS)	SBRAZ-DTX	(3)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
VICHY	344(OM)(116.1)	BMRLZ-VDT,310°, 2.7	(4), 116.1

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

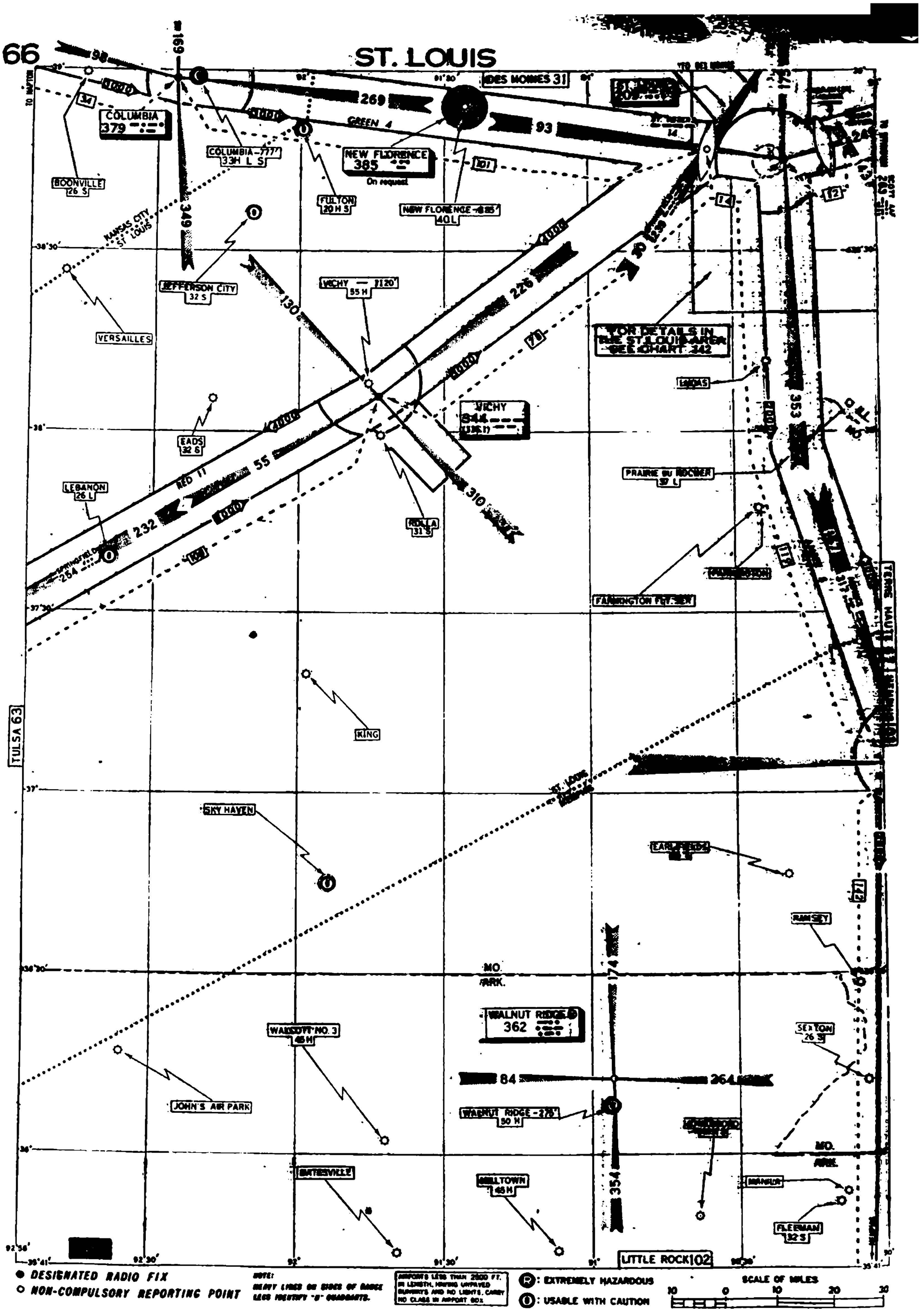
AIRPORT - CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Batesville(Desha)	1 SE, hwy E	400	20 S1	73 oct.Pole line NE.
Biggers (NC)	2 ESE,RR NW	290	45	
Fleeman(Manila)	0.8 S,RR N	240	32 S2	80 oct.Po. line N,NE.
John's Air Park (Flippin)	0.3 NNW,RR S	620	11 S1	80 oct.Trees N.
(P) Jonesboro	3.5 ESE;RR N,SW	264	44h S6	80,91 oct.Use rnwys
Manila (Blytheville)	13.5 W,lake E	240	75	
Milltown(Newport)	13 NE	244	45h	
Walcott #3 (Walnut Ridge)	14 ESE	285	45h	1.5 W of Walcott
Walnut Ridge	4 NE,RR SE	275	50h	
ILLINOIS				
* Prairie du Rocher Int,55, NO-LS	0.5 S,RR NE	390	37 L3	Trees S, N.

MISSOURI

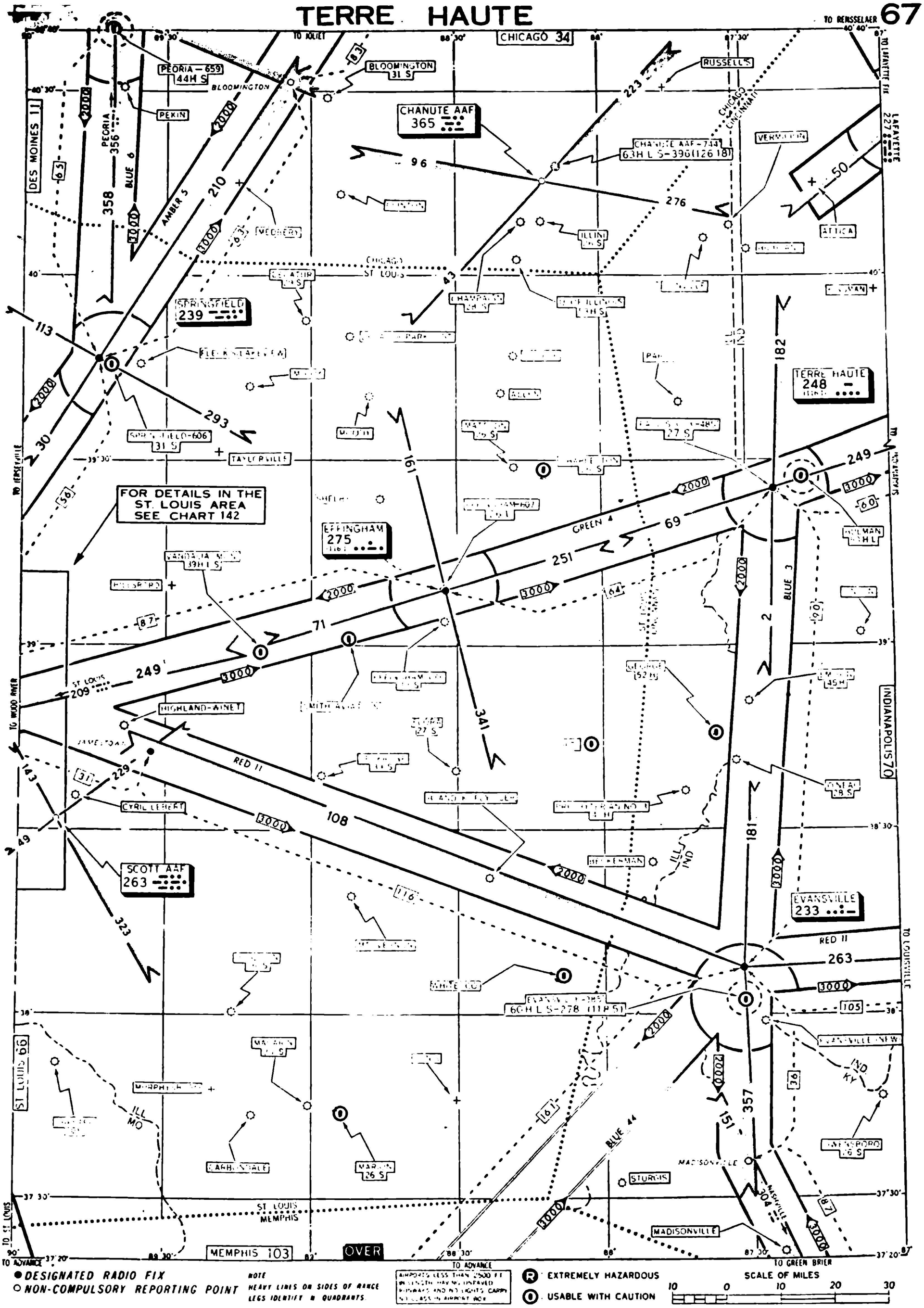
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boonville	1.5 NNW,riv S	602	16 S4	80 oct.Obsts sur fld.
Columbia	2.4 NW,hwy S	777	33h R1 L3 S5	80, 91 oct.
Eads (Iberia)	1.1 W, hwy NE	960	32 S2	80, 91 oct.
Farmington	1 ESE,hwy N,E		35 S6	80 oct.Data not verif.
Farmington Flying Service	0.8 NNE,hwy S	920	17 S4	73 oct.Poles NW.
Fields (Poplar Bluff)	3.8 ENE,hwy S	325	26 S2	73 oct.Pwr line S.
Fulton	3 WSW,hwy SE	875	20h S2	80 oct.
Jefferson City	2 N, hwy S	550	32 S6	80 oct. No sto.
Kennett (NC)	1.3 E,RR W	260	26	30' poles N.
King (Houston)	0.8 WNW,hwy ESE	1180	15 S1	80 oct. Poles S
* Lebanon Int,54B, AQ-LS	2.5 SSE,hwy E	1380	26 L3	
Lucas (Festus)	1.7 S,RR W	425	16 S2	73 oct.
Mel Adkins (Gravois Mills)(NC)	4.2 SSE,hwy W	950	19	
* New Florence Int, 17, KC-LS	1 SSE,hwy N	885	40 R1 L3	
Ramsey (Campbell)	1.6 SW,RR NW	295	14 S2	Ltd 73 oct.Trees NNE
Rolla	3.5 NE,rd S	1201	31 S6	80,91 oct.
Sexton (Kennett)	2.8 SW,hwy E	263	26 S2	80 oct.
→ Sky Haven (West Plains)	2.4 NW;RR E	1049	22	
Versailles	1.7 ENE,RR N	1050	20 S2	80 oct.Pwrline N,NE, NW.
Vichy	1.5 NNW,hwy SW	1120	55h R1	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

ST. LOUIS


TO MINTON
98
169
COLUMBIA
379
34
COLUMBIA – 777'
33H L S
BOONVILLE
26 S
269
GREEN 4
DES MOINES 31
93
NEW FLORENCE
385
On request
101
FULTON
20 H S
NEW FLORENCE – 1035'
40 L
KANSAS CITY
ST LOUIS
349
38°30'
JEFFERSON CITY
32 S
VERSAILLES
VICHY — 1120'
55 H
130
226
70
63
TO JEFFERSON CITY
FOR DETAILS IN THE ST LOUIS AREA SEE CHART 342
EADS
32 S
38°
VICHY
344
USN
RED 11
55
LEBANON
26 L
232
264
RED 1
RED 4
31 S
310
37°30'
PRAIRIE DU ROCHER
37 L
FARMINGTON FLT SERV
TULSA 63
KING
37°
SKY HAVEN
36°30'
MO.
ARK.
WALNUT RIDGE
362
WALCOTT NO. 3
46 H
JOHN'S AIR PARK
84
264
WALNUT RIDGE – 279'
30 H
SEXTON
26 S
BATESVILLE
MILLTOWN
46 H
354
174
MANILA
FLEEMAN
32 S
36°
92°56'
39°41'
92°30'
92°
91°30'
91°
LITTLE ROCK 102
90°30'
35°41'
RAMSEY
DES MOINES
14
12
24
353
TENNESSEE
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" GUARANTEE.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
R: EXTREMELY HAZARDOUS
0: USABLE WITH CAUTION
SCALE OF MILES
30 0 10 20 30

TERRE HAUTE


TO ROBINSON
TO RENSSELAER
CHICAGO 34
TO JOLIET
PEORIA — 659
44H S
BLOOMINGTON
31 S
BLOOMINGTON
PEKIN
CHANUTE AAF
365
RUSSELL S
223
CHICAGO CINCINNATI
TO LAFAYETTE FIX
LAFAYETTE
227
DES MOINES 11
PEORIA
356
358
BLUE 6
AMBER 5
210
96
276
CHANUTE AAF-744
63H L S-396(126 181)
VERMILION
50
ATTICA
MEDIARY
ILLINI
CHICAGO ST LOUIS
SPRINGFIELD
239
CHAMPAIGN
113
293
182
TERRE HAUTE
248
TAYLORVILLE
SPRINGFIELD-606
31 S
30
161
249
3000
2000
60
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
EFFINGHAM
275
GREEN 4
69
251
64
71
87
249
ST LOUIS
209
TO WOOD RIVER
HIGHLAND-AINET
341
RED 11
108
143
229
31
CYRIL LEHERT
49
SCOTT AAF
263
323
116
2
BLUE 3
90
INDIANAPOLIS 70
181
EVANSVILLE
233
263
TO LOUISVILLE
105
60H L S-278 (11R 5)
ST LOUIS 66
ILL MO
MURPHYSBORO
CARBONDALE
MARION
26 S
16
BLUE 44
STURGIS
MADISONVILLE
357
151
36
IND KY
87
204
NASHVILLE
ST LOUIS
MEMPHIS
MEMPHIS 103
OVER
TO ADVANCE
TO GREEN BRIER
TO ST LOUIS
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY R QUADRANTS
AIRPORTS LESS THAN 2500 FT IN LENGTH MAY BE UNPAVED RUNWAYS AND NO LIGHTS CARRY NOTE ABOVE AIRPORT NOS
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE (Rantoul)(Army)	365 (DNU)	SBMRAZ	(3), 126.18
Chanute Field	396 (126.18)	CA, 43°, 3.3	(3), 126.18
EFFINGHAM	275 (EF)(116.1)	BMRLZ-VDT,341°,0-Intermediate	(4), 116.1
SCOTT (Belleville)(Army)	263 (DCD)	SBMRAPZ-DT,49°,1.8	(4)
SPRINGFIELD	239 (ZD)	SBMRAZ-DT,113°,2.3	(4)
		INDIANA	
EVANSVILLE	233 (EV)	SBRAZ-DT	(3)
Evansville Airport (old)	278 (118.5)	C, 177°, 5.5	(4):126.15,118.5,131.9
TERRE HAUTE	248 (TH)(116.1)	BMRLZ-VDT,125°,0-Paul Cox	(4): 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs., Parenthetical **Numbers in the Frequency Column Indicate VHF on which Voice is Available**

AIRPORTS

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Arcola)	2 W,RR N,E	665	20 S6	80 oct.Pole line N, E.
B & K (Fairfield)	1.4 WSW,RR S	500	21 S2	80 oct. Pole line S
Beckerman (Mt.Carmel)	4 W,RR S	424	23 S1	80 oct. Pole line N.
(P) Bloomington	3 E,RR N	875	31 S6	80 oct. Pole line N.
Carbondale	0.1 E,lake 2 E	450	20 S4	80 oct. No sto.
Champaign	2 NNW,RR SW	753	28 L S4	73 oct.Range lgts.Appchs blocked.
(A) Chanute (Rantoul)(A)	1 SE,RR W	744	63h R2 L5	73,91,100 oct. JP-1.Pole N.
Charleston	1.3 SW,hwy E	690	26 S6	80 oct.Use marked areas.
Clinton Flying Club	5.5 NE	720	13	
Cooper (Tuscola)	1.6 SW,RR E	650	24 S2	80 oct.Poles NW, SE, NE, E
Cyril Lebert(Lebanon)	0.5 SE,hwy N	440	22 S2	80 oct.Poles N, W, S.
Danville	2.4 SSW,hwy W	640	24 S4	80 oct. Appchs blocked by poles.
Decatur	4 NW,RR S	678	29 S6	80 oct.
Decatur Park District	4 E,RR,hwy S	679	16 S1	80 oct. Pole line N,SW,NW,NE.
Denis (Muddy)	Adj E	400	27 S1	80 oct.Data unverified.
Du Quoin	1.8 W,hwy S	454	26 S2	73 oct. 25' poles S.
Effingham Co. Memorial	3.6 S,hwy W	585	30 S2	80 oct.
* Effingham Int,I0,LS-ID	2.5 N,RR E	607	26 R1 L3 S1	73 oct. on req.
Fleck's Lakeview (Rochester)	2.8 W,lake W	580	21 S6	80 oct. No sto. Poles W.
Flora	1.1 WSW,RR N	490	27 S1	80 oct. Trees, poles N.
George (Lawrenceville)	4.5 NE,RR S	428	52h	
Highland-Winet(Highland)	3.0 NE,RR S	535	24	Pole line S.
Illini (Urbana)	2 NNE,hwy SE	740	26 S6	80 oct. Trees E.
Leckrone (Salem)	1.9 NW,hwy S	545	39 S6	80,91 oct. Use strips only.
McCoy (Blue Mound)	5 W	660	16 S2	No fuel.
Macarin (Marion)	4.6 WNW,hwy W	470	35 S6	80, 91 oct.
Marion	1.8 ESE,RR S	430	26 S6	73 oct.
Mattoon	4 E,RR N	720	26 S4	80 oct. Poles W.
Medbery (Armington)	1 NE	650	26	Data not verified.
Moody (Dalton City)	2.2 S,hwy W	680	19 S2	80 oct. Trees E.
Murphysboro	3 N,riv SE		20 S1	80 oct. Data not verified.
Paris	3.5NNW;RR,hwy	740	30 S1	80,91 oct.Poles SW,S,W.
Pekin	4 S,bet RRs	505	24 S2	80 oct. Pole line W,N, E.
PEORIA	4.8 WSW,rd E	659	44h R1 L1 S6	80,91 oct. Trees W,bldgs NE.
Presbyterian Church No. 3 (St Francisville	4 WNW,hwy E	430	45h	
Russell's (Hoopeston)	6.5 WNW,RR S		13	PRIVATE. Data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII)(NC)-Not charted. ➔ NEW OR REVISED DATA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Shelby County (Shelbyville)	1.9 ESE,RR N	677	21 S1	80 oct.
Smith Aviation (St.Elmo)	1.3 SW,RR NW	647	20 L1 S2	80 oct. Poles N, NE.Rnwy data unver
(P) Springfield	3.5 SW,bet RRs	606	31 R1 S6	80,91 oct.Use strips only.
(P) University of Illinois (Champaign)	5.5 SSW,RR E	752	53h S4	80, 91 oct.
Vandalia	4.4 NW	532	39h L2 S2	80 oct.
Vermilion (Danville)	4 E,hwy S	650	21 S2	80 oct. 30' poles S.
White County (Carmi)	1.1 NE, RR S	450	17 S1	80 oct.
Mount Vernon	2.5 ENE,RR S	465	23 S6	80 oct.
Taylorville	1 SW		26 S1	80 oct. Data not verified.
Hillsboro	1 NE	630	25 S4	Inf,not verified
Schilt (Olney)	1.5 E;RR S		30 S1	80 oct.Data not verified.
➔ Nashville	1 E,lake W		20 S1	80 oct. Info unverified.
➔ Casey	1 NW		26 S2	80 oct. Info unverified.
		INDIANA		
Attica	2 S;hwy W	647	26 S1	80 oct. Data not verified.
Cork (West Lebanon)	4 W		24 S1	80 oct. Obsts NE. Data unverif.
Emison (Oaktown)	3.6 WSW	425	45h	
Evansville (new)	5 E, RR W	388	18 S1	80 oct.
EVANSVILLE (old)	5 NE;bet RRs	385	60h R2 L5 S4	80, 91 oct. Twr W.
Ferguson (Richland)	0.5 SE		13	Data not verified.
Highland (Perrysville)	2.8 WNW,riv E	585	23 S2	Ltd 73 oct.
(P)HULMAN (Terre Haute)	5 ESE; RR N	585	53h L5	Fld lgts prior req.
Jordan (Bloomingdale)	6 N		33 S2	No fuel.Data unverified.
Kingman Flying Service (Kingman)	0.5 E,hwy N	700	26 S4	80 oct. No sto.
Linton	3.3 E, RR S	500	20 S1	Ltd 80 oct. Pole line N.
Mount Vernon	1 E		26 S1	80 oct. Info. unverified.
O'Neal (Vincennes)	1.5 WNW,RR NE	415	28 S6	73,80 oct.NNW appch blocked.
Paul S. Cox (Terre Haute)	3.2 S,riv W	485	27 R1 S4	80, 91 oct. Stacks NE.
Straub (Cynthiana)	0.5 NW		13	Info. unverified.
Washington Mun.	4 N		30 S4	80 oct. Info. unverif.
Washington	3 W		21	Info. unver.
Charlestown	5 NE; hwy E		15 S6	80 oct. Info unverified.
		NEVADA		
Madisonville	6 ENE; hwy SE	420	24 S4	80 oct. Use strips only.
Owensboro	2.5 ENE;RR NW	484	26 S6	73, 91 oct. No sto.
Sturgis	1.5 ESE,hwy SW	371	50h	
		MISSOURI		
Chester (McBride)	3.8 NW,riv N	372	20h	Allway: 5388 x 4695'

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
ADVANCE FM	(- - - -)	FM, 330°, 24	Indianapolis
CEDAR GROVE FM	(- - - -)	FM, 297°, 35	Cincinnati, Ohio
CLAYTON FM	(- - -)	FM, 250°, 11.2	Indianapolis
FREEMAN (Seymour) (Army)	203 (DSR)	MRLWZ	
→ Freeman Field	396 (126.18)	CA; 159°, 11.6	(3); 126.18 (7-19)
Freeman Field (Hfac.)	219 (DSR)	MH	Operates cont.
GREENCASTLE FM	(. . - - -)	FM, 250°, 27	Indianapolis
GREENFIELD FM	(-)	FM, 82°, 31	Indianapolis
INDIANAPOLIS	266 (ID)(116.1)	SBRAZ-VDT	(3) 116.1
Indianapolis Airport	278 (126.18)	AC (ILS); 82°,3.3	(4); 131.9, 126.18
LAFAYETTE (Purdue University)	227 (LF)	BMRL-DT; 50°,2.4	(4)
MILROY (Int.)	347 (MV)	MHT	(4)
MORGANTOWN FM	(- -)	FM, 177°, 22	Indianapolis

KENTUCKY

BOWMAN FIELD (Louisville)	278 (126.18) (118.3)	AC	(4); 116.1, 131.9, 126.18, 118.3
EASTWOOD FM	(- -)	FM, 89°, 9.4	Louisville
GODMAN (Knoxville) (Army)	227 (DKX)	BMRLZ	
Godman Field	272 (126.18)	CA; 172°, 3.1	(3); 126.18 (6-24)
LOUISVILLE	359 (LV)	SBMRLZ-DTX	(3)
SHEPHERDSVILLE FM	(- - -)	FM, 160°, 18	Louisville
SULPHUR FM	(. . - - -)	FM, 227°, 70	Cincinnati, Ohio
UNION FM	(- - -)	FM, 227°, 24	Cincinnati, Ohio
WARSAW (Int.)	212 (WR)	MHT	(4)

OHIO

CINCINNATI (Lunken)	335 (CC)	SBRAZ-DT; 227°,5.2	(3)
DAYTON	245 (DY)(116.1)	SBMLZ-VDT	(3); 116.1
Dayton Airport	278 (126.18) (118.9)	AC (ILS);90°,3.3	(4); 131.9,126.18, 118.9
FAIRFIELD FM (Army)	(- - -)	FM, 196°, 9.3	Patterson
LOVELAND FM	(-)	FM, 44°, 8.8	Cincinnati
LUNKEN (Cincinnati)	227 (126.18) (118.7)	AC	(4); 116.1, 131.9, 126.18, 118.7
PATTERSON (Fairfield) (Army)	379 (DPK) (116.1)	SBMRAPZ-VDT	(4); 116.1
Patterson Field	396 (126.18)	CA (ILS); 32°, 2.96	(4); 126.18 (GCA)
VERONA FM	(- - - -)	FM, 270°, 9.9	Dayton
WRIGHT (Dayton)	260 (126.1)	CA	3105, 4495; 126.18

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mc. Compass Locators in kc.)

LOCATION	LOCALIZER	G. P.	AIRPORT, RUNWAY	MARKER LOCATORS & DISTANCE FROM RUNWAY	COMPASS LOCATORS
DAYTON, OHIO	110.3	335	5°/Mag.	IM ····· (.05) MM	OM — — (4.4)
				IMK ···· (.5) MMK	OMK
INDIANAPOLIS, INDIANA	109.9	333.5	44°/Mag.	IM ····· (.05) MM ···· (.5)	OM — — (4.3)
	---			IMK ···· (.5) MMK	OMK
PATTERSON, OHIO	108.7	333.8	21°/Mag.	IM (.05) MM ····· (1.5)	OM — — (4.5)
				IMK MMK	OMK

S Simultaneous Range and Voice. W Without Voice. Z VHF Station Location Marker at Range Station.
(3) 3105, 4495, 6210 kcs.; (4) 3105, 4495, 6210, 3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — INDIANA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Ace (Anderson)	2 S	875	30 S4	80 oct.
Anderson	3.5 SE;RR NE	875	26 S6	80 oct.No sto.Trees E.
Aretz (Lafayette)	4 NE	500	35 S6	80 oct.Info. unverified.
(A) Atterbury AAF(Columbus) (A)	3.5 N;hwy S	651	50h	INACTIVE.
Bargersville	1 N		20	Info. unverified.
Beck (Zionsville)	5 NE;crk W		14 S2	80 oct.Poleline W.Info. unverified.
Bedford	3.5 SE	682	19 S2	Ltd 73 oct.Rnwy data
Black Hawk (Sheridan)	5.3 N;hwy E	600	16 S1	Ltd 73 oct. unver.
(P) Bloomington	5 WSW;RR SE	840	40 S2	73,80 oct.Poleline S. Rnwy info. unverified.
Boss-Denien (Salem)	3 WNW;RR N		26 S6	80 oct.Poleline S. Data not verified.
Bringham (Portland)	1.5 E;RR E	1020	20	Poles S;120 tank SW.
Brightwood (Indianapolis)	3.7 NE;rd S		44 S4	80 oct.Data unverif.
Brownsburg	1.5 SSE;RR N	650	20 S1	73 oct.Poleline S.

h hard surfaced runways. R radio facilities. L lighting facilities. S servicing. (See page xiii) NC (not charted). → NEW OR REVISED DATA.

INDIANAPOLIS

INDIANA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bunker Hill	1.8 W;RR N	798	50h	
Bush (Jeffersonville)	3 NE		20 S2	80 oct.Inf.unverified.
Bush (Ramsey)	1.5 WSW;hwy N	580	10 S1	73 oct.
Campus (Bloomington)	1.5 ENE,RR S		25 S1	80 oct.Info.unverif.
Columbus	4.5 SSW	616	45h S4	80 oct.No sto.
Coxey's (Winchester)	1 ESE;hwy N	1088	16 S4	80 oct.
Crawfordsville	4.5 SSW;hwys E, W	650	37 S4	80 oct. No sto.Info. unverified.
East Richmond (Richmond)	3.7 ESE;RR E	1090	20 S6	73 oct.
Elwood	1.8 SSE;hwy NE	850	23 S4	80 oct.Data unverif.
Farmers (Greenfield)	9 NW		26 S2	73 oct.Info. unverif.
Fortville	2.8 E;rd N	740	15 S1	Ltd 73 oct.Trees SSW.
Franklin Fly.Field	4 S;riv S	745	22 S2	80 oct.Trees S.
(A) Freeman (Seymour)(A)	2 SW;hwy N	575	55h R2 L5 S6	73, 91, 100 oct.JP-1.
French Lick Sprgs.(NC)	1 SE,RR W	500	27h	
G & C (Anderson)	1 N	875	30	Info. unverified.
Greencastle	8 SE		23 S2	80 oct.Info. unver.
Greenfield, Inc.	1.9 ENE,RR S	910	30 S2	80 oct.Poleline S.
Halsmer (Lafayette)	3 ESE;RR S	595	20 S6	80 oct.Poles SW.
Himes (Ladoga)	4 NW		13	Info. unver.
Hoosier (Indianapolis)	4 WNW	740	26 S5	80 oct.Pole line NE.
Howells (Rushville)	2 SE;hwy SW	985	21 S6	80, 91 oct.
Huffman Air Service (Selma)	0.8 SE, RR N	1000	15 S4	73 oct.
Huntingburg 10,LS-LV	3 S;RR E	500	31 L2 S2	73 oct.
(P) INDIANAPOLIS	8 SW;hwy N	796	53h R3 L6 S6	73,87,91,100 oct.Exper.
Kokomo, mun.	4.7 NE	835	40h L5 S2	80 oct.P-line E.lgtg.
Lapel	1 NE		13	Rough.Info. unver.
Lawrenceburg	1 SW		22	Info. unver.
Lebanon	1 S;RR N	925	13 S2	80 oct.Trees SW.
Lizton	1 SE		25	Info. unverified.
Lockwood (Frankfort)	2.5 S;RR W	764	20 S4	80 oct.Ditch W.
Loy (Plainfield)	0.5 NE,RR S		19 S6	73 oct.Data unver.
Madison Commercial	2.2 N;RR W	960	24 S2	80 oct.Poles E.
(A) Madison AAF (A)	6 NNW; RR SW	850	50h	Closed to all acft.
Mapleton (Seymour)	3 E		18 S4	80 oct.No sto.Info.unver.
Martinsville	2 W		10	Info. unver.
Marion	3.8 SSW;hwy S	832	24 S4	73 oct.Poles E.hi-line N.
Mecco (Danville)	0.5 W		13 S2	73 oct.Info. unver.
Mettel (Connersville)	2.4 NNE;RR E	950	29 S1	80 oct.
* Milroy Int,5, CC-CG	5.5 ESE	1034	27 R1 L3	
Moore (Zionsville)	12 NW		14 S1	80 oct.Info. unver.
Muncie	3.5 N;RR SW	950	31h L4 S6	80,91 oct.Lgts prior req. Rnwy info. unver.
New Castle	3.2 E; RR S	1040	23 S6	80 oct. No sto.
New Castle Western (New Castle)	2.3 NW;lks SE	1080	26 S1	73 oct.
Noblesville	0.5 SE	801	27 S1	80 oct.Poleline S end NW, SE strip.Info.unver.
Ockley	1 W		23	Pwrlines N,W;trees E. Info. unver.
Owen (Mooresville)	4 E		31 S1	80 oct.Info. unver.
Purdue University (Lafayette)	2.5 W;RR N	605	35h R1 L3 S6	80 oct.Silo N;stack NE.
Reese (Muncie)	4 E	950	19 S2	80 oct.Info. unver.
Reimer (Lafayette)	2 S		25 S2	80 oct. Info. unver.
Richmond, com.	4 WSW;RR N	1075	42 L1 S2	80 oct.
(P) Richmond, mun.	6 SSE;RR W	1139	55h L5	Contact lgts on req.
Ruzicka (Kokomo)	2.5 S;RR E	800	22 S6	80 oct.Pole E;trees N.
St. Anne #2 (Seymour)	2.3 NNE	750	45h	
Scottsburg	2 W		18	Info unver.
Shank's (Indianapolis)	5 WNW	740	26 S6	80 oct.Info. unver.
Shelbyville	3.1 S;hwy E	850	19	Poleline E.
Silent Brook (Orleans)	6 W;riv SW	650	20 S4	80 oct. Hi-line W,SW
Sky Harbor (Indianap's)	7 ENE;hwy S	730	26 S6	73,80 oct.Pole line E.
Sky Haven (Bedford)	2 SSW;riv S	650	36h S4	80,91 oct.Poleline E.S. Rnwy data not verif.
Steed (Portland)	1.5 NW	1030	20 S2	80 oct.Obsts N end NE-SW stp.Info.unver.
Stiles (Shoals)	1 N	740	22 S2	80 oct. Info. unver.
(A) Stout (Indianapolis)(A)	5.5 WSW	712	45h	INACTIVE.
Templeton (Greensb'g)	3.5 WNW;RR N	915	26 S4	73,80 oct.Pwrline S. No sto.
Vevay	1 E	450	20 S2	73 oct.Tree NE corner Info. unver.
West Side (Marion)	2.5 NW;hwy S	835	26 S1	73 oct.Pole line E.
White Cloud (Greenw'd)	1.6 SW;hwy E	800	25 S4	Fuel.No sto.Info.unver.
York;town	1 S		22 S1	80 oct.Obsts E,Info.unver

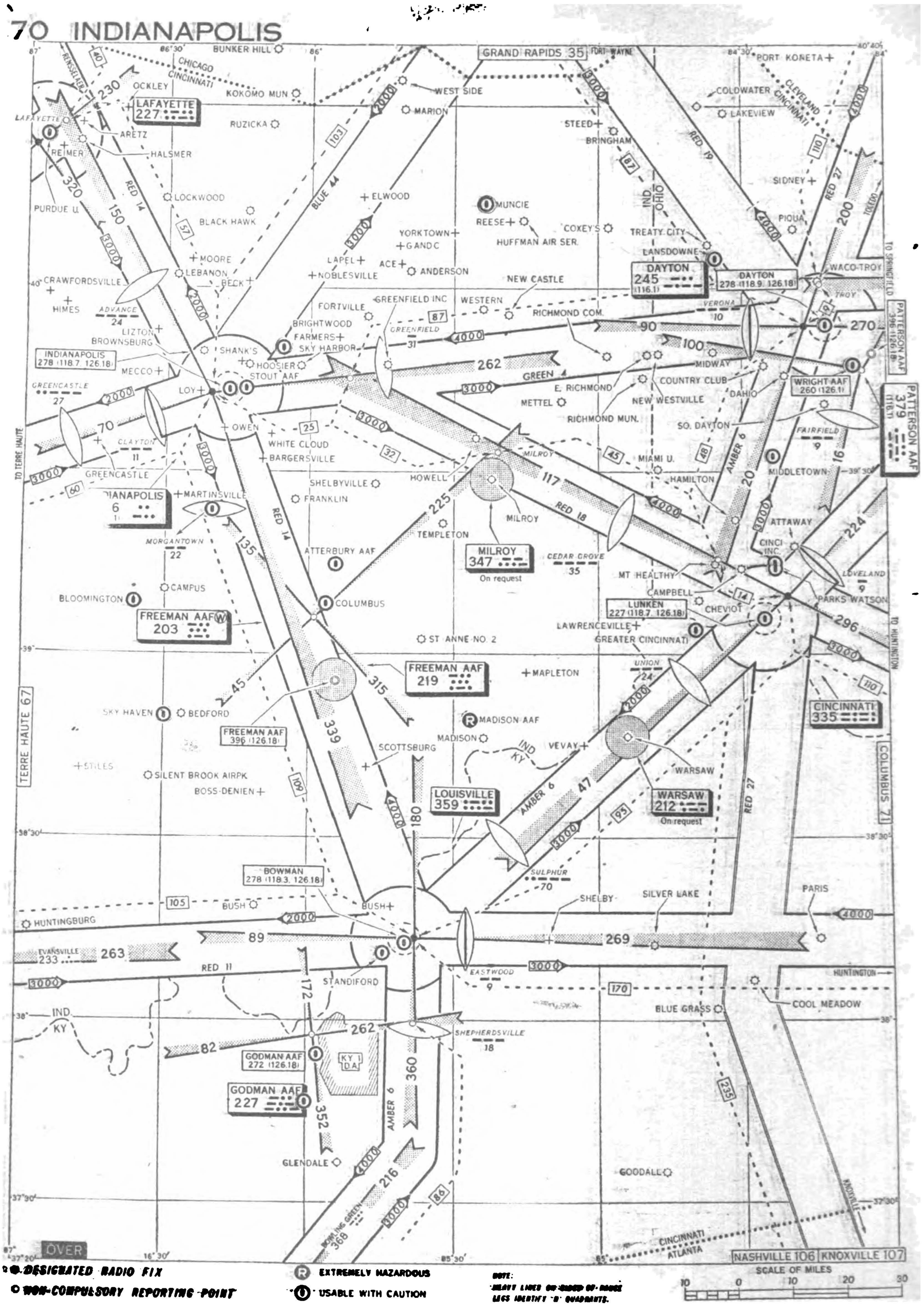
KENTUCKY

Blue Grass (Lexington)	6 W;hwy N	978	40h L5 S1	80 oct.
(A) BOWMAN (Louisville)	5.5 ESE;hwy S	546	44h R2 L5 S6	73,91,100 oct.
Cool Meadow (Lexington)	4.8 N;rd W	910	28 S6	80,91 oct.No sto.Pole line SW.
* Glendale Int,75B,	0.5 NE;RR NW	702	26 L3	(DL-LV)
(A) Godman (Ft.Knox)(A)	1 NW;RR E	740	52h R2 L5 S4	73,91,100 oct.No sto.
Goodall (Danville)	4.2 S;RR W,S	990	27 S6	80 oct.
(P) Greater Cincinnati (Covington)	8.2 W;riv NE	889	55h L5 S1	91,80 oct.Svcg days only.Ctc lgts prior req.
Paris	1.2 NNE	635	20 S1	80 oct.Ravines NE,SE.
Shelby (Shelbyville)	2.5 ENE;hwy S	850	20 S2	80 oct.Info. unver.
Silver Lake (Frankfort)	3.2 E;hwy N	750	25 S2	80 oct.
Standiford (Louisville)	4.3 SSE;RR W	480	50h L5	
* Warsaw Int,5A,LV-CV	0.8 SW;riv NW	485	30 R1 L3	

OHIO

Attaway Air Ranch (Mason)	4.2 S;RR NW	850	23 S4	80 oct.No sto.Pole line E.
Campbell (Cincinnati)	6.2 NNW;RR E	820	24 S1	80 oct.Pole line WSW.
Cheviot (Cincinnati)	9 W	914	18 L1 S1	80 oct.
Cincinnati (Sharonv'l)	2 SE;hwy N	860	37 S6	80 oct.
* Coldwater Int,4,DY-CC	2 NW;crk NW	898	33 L3	
Country Club (Johnsv'l)	2.9 N;RR NE	990	26	Poles N, S.
Dahio (Dayton)	8.5 W;hwy S	925	37 S4	80 oct.
DAYTON	10 N;hwy E	1000	55h R3 L5 S6	73,80,91,100 oct.
Hamilton	2.5 SE;RR SW	615	29 S6	80,91 oct.Poles S, SE. Trees NW.
Happy Landings (Morrow) (NC)	2.4 ESE;RR S	860	28	Area SE unusable.
Harrison (NC)	2 ESE;RR SW	580	18	Pole line S.
Hightman (Lebanon)(NC)	3 E;RR W	880	16	Pole line W;trees W,E.
Lakeview (Montezuma)	1 SW;hwy W	895	24 S2	80 oct. Pole N.
(A) LUNKEN (Cincinnati)	4.3 SE;RR SW	481	41h R2 L5 S6	73,91,100 oct.Bcn.ESE.
Miami University -(Oxford)	2.2 WSW;RR W	1040	40 S6	80 oct.Poles N,NW.
Middletown	1.5 N; riv N	653	31 S4	80 oct.
Midway (Lewisburg)	3.4 WSW;RR E	1090	26 S4	80 oct.Trees W.
Mt. Healthy (Cincinnati)	9.5 NW;hwy E	870	22 S6	80 oct.Poles E;woods W.
New Westville (New Paris)	2.8 S;RR S	1180	41 S1	80 oct.Poles E, NW, SE.
Parks Watson (Cincinnati)	9 NE;RR E	865	25 S6	80 oct.
(A) Patterson (Fairfld)(A)	1.6 WSW	819	78h R3 L6 S4	73,100 oct. JP-1.
Piqua	4 WNW;RR S	1000	19 S2	80 oct.Poles S,SE,SW.
Polk Grove (Vandalia)	3.6 W;riv W	975		UNUSABLE. (NC)
Sidney	1 W;RR S		25 S2	80 oct.Data unver.
South Dayton (Dayton)	5 SSW;RR W	750	32 S6	80 oct.No sto.Hills S.
Treaty City (Greenv'l)	1.5 NNE;hwy W	1060	20 S4	80 oct.Poleline W.
Waco-Troy (Troy)	1.8 SW;RR SE	870	29 S1	80 oct.
(A) Wright (Dayton)(A)	5 ENE;RR NW	800	72h R1 L5 S2	62,73,91,100 oct.JP-1 CLOSED.
Lansdowne (Greenv'l)	2 ESE;RR N		19	Bldgs,hi-line N. Inf. unver.
Port Koneta (Wapakoneta)	2.5 NNE;RR E		26 S4	80 oct.Inf. unver.

70 INDIANAPOLIS



OVER

● DESIGNATED RADIO FIX

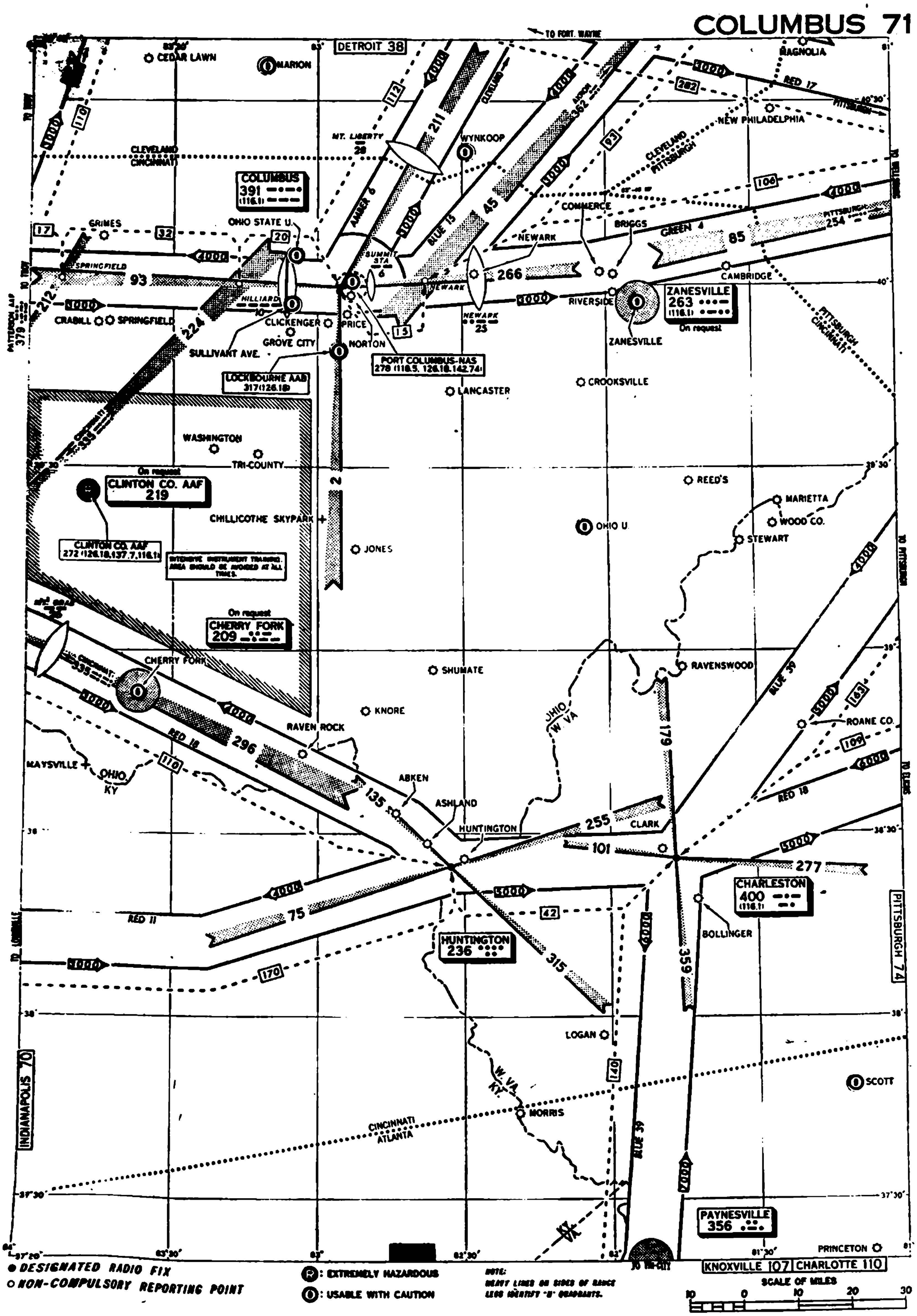
○ NON-COMPULSORY REPORTING POINT

Ⓡ EXTREMELY HAZARDOUS

Ⓤ USABLE WITH CAUTION

NOTE:
HEAVY LINES ON EDGES OF RADIO LEGS IDENTIFY "B" QUADRANTS.

COLUMBUS 71


DETROIT 38
TO FORT WAYNE
CEDAR LAWN
MARION
MAGNOLIA
NEW PHILADELPHIA
MT. LIBERTY
WYNKOOP
CLEVELAND
CINCINNATI
COLUMBUS
391
(116.1)
CLEVELAND
PITTSBURGH
COMMERCE
BRIGGS
GRIMES
OHIO STATE U.
SUMMIT STA
NEWARK
SPRINGFIELD
93
266
CAMBRIDGE
ZANESVILLE
263
(116.1)
On request
RIVERSIDE
HILLIARD
CRABILL
SPRINGFIELD
CLICKENGER
PRICE
NEWARK
25
GROVE CITY
NORTON
SULLIVANT AVE.
PORT COLUMBUS-NAS
278 (116.5, 126.1, 142.7)
ZANESVILLE
LOCKBOURNE AAB
317 (126.1)
LANCASTER
CROOKSVILLE
WASHINGTON
TRI-COUNTY
On request
CLINTON CO. AAF
219
CHILLICOTHE SKYPARK
REED'S
MARIETTA
WOOD CO.
OHIO U.
STEWART
CLINTON CO. AAF
272 (126.1, 137.7, 116.1)
JONES
On request
CHERRY FORK
209
CHERRY FORK
SHUMATE
RAVENSWOOD
KNORE
RAVEN ROCK
OHIO
W. VA
KY
ROANE CO.
MAYSVILLE
OHIO
KY
ABKEN
ASHLAND
HUNTINGTON
255
CLARK
101
277
CHARLESTON
400
(116.1)
BOLLINGER
HUNTINGTON
236
315
359
LOGAN
W. VA
KY
SCOTT
MORRIS
CINCINNATI
ATLANTA
PAYNESVILLE
356
PRINCETON
KNOXVILLE 107
CHARLOTTE 110
INDIANAPOLIS 70
PITTSBURGH 74
PITTSBURGH
CINCINNATI
RED 17
RED 18
RED 11
BLUE 15
BLUE 39
AMBER 6
112
211
362
282
93
106
45
85
254
212
224
335
296
135
75
42
315
179
163
109
140
170
110
4000
5000
6000
7000
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF BLUE LEGS IDENTIFY "B" BOUNDARYS.
SCALE OF MILES
10 0 10 20 30

		BEAM & DIST.	OP. OPER., REMARKS
CHERRY FORK (Int.)	209 (UY)	MHT	(4)
CLINTON CO. (Wilmington)	272 (126.18) (137.7) (116.1)	CA(ILS)	(3); 126.18,137.7,116.1 (GCA)
Clinton County (Wilmington) (Army)	219	K	0.2 mi. end Rnwy 22, (8-1630, Mon.-Fri.)
COLUMBUS (Port Columbus NAS)	391 (CO)(116.1)	SBRAZ-VDT, 86°, 1.9	(3), 116.1
HILLIARD FM	(- - - -)	FM, 273°, 9.8	Columbus
LOCKBOURNE AAB(Columbus)	317 (126.18)	CA (ILS)	(3), 126.18
MT. LIBERTY FM	(-)	FM, 31°, 27.8	Columbus
MT. ORAB FM	(- -)	FM, 116°, 25.5	Cincinnati
NEWARK FM	(. . - -)	FM, 86°, 25	Columbus.
PORT COLUMBUS NAS (Columbus)	278 (118.5) (126.18,142.74)	AC	(4), 131.9, 118.5, 126.18, 142.74
SUMMIT STATION LFM	(- -)	LFM, 86°, 5.6	Columbus
ZANESVILLE	263 (VL)(116.1)	MHVT	(4), 116.1

WEST VIRGINIA

CHARLESTON	400 (KN)(116.1)	SBMRAZ-VDT	(4), 116.1
HUNTINGTON	236 (HI)	BMRLZ-DT, 75°, 2.4	(4)
PAYNESVILLE	356 (IR)	H	Operated by PCA (6-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
LOCKBOURNE AAB, OHIO	109.9		3° Mag.	IM (.16)		MM ····· (.85)	MMK	OM -- (4.29)	OMK
CLINTON CO. AAF, OHIO	109.5	332.6	320° Mag.	IM (.05)		MM	MMK	OM	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

KENTUCKY

AIRPORT → CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abken (Russell)	2.7 NW,riv N	555	26 S3	80 oct. Data not verified.
→ Ashland	1 E, RR SE	535	29 S4	80 oct.
Maysville	3.5 NW		26 S2	Fuel. Data not verified.

OHIO

Briggs (Zanesville)	6.4 NNE,RR W	780	18 S2	80 oct. Poles E.
Cambridge	2 N, RR W	800	27 L3 S2	73 oct.
Cedar Lawn (Kenton)	2.3 S, RR E	975	18 S2	80 oct. Poles E.
* Cherry Fork Int,4,CC-WA	0.5 NNW	939	39 R1 L3	
Chillicothe Skypark	1.8 N,RR E	640	30 S4	80,91 oct. Data not verified.
Clickenger (Columbus)	6.2 SSE,RR E	748	26 S2	80 oct. Poles surround fld.
(A) Clinton County AAF (Wilmington)(A)	2 SE,hwy NE	1062	60h R3 L5 S1	73, 91, 100 oct. JP-1. No rng.
Commerce (Zanesville)	6.5 N,RR,riv E	800	28 S2	73, 80 oct.
Crabill (Springfield)	2.5 SE,RR E	1040	29 S6	80 oct. Pole line S.
Crooksville	2.3 S,RR NW	760	22 S2	No fuel. Poles N
Grimes (Urbana)	1.5 N,RR W	1055	35 L4 S6	80 oct. Fld lgts prior req.
Grove City	1 S, RR W	860	21 S6	73,80 oct. No sto.Poles W.
Jones (Chillocothe)	7.2 SE,RR SW	720	20 S2	Ltd 80 oct.
Knore (Minford)	2 SE,RR W	670	20 S6	80 oct. No sto. Pwr line S.
Lancaster	2.5 E;RR N,SW	830	25 S4	80 oct. Poles E.
(A) Lockbourne AAB (Columbus)(A)	11.5 SSE,RR W	738	55h R3 L5 S5	73, 100 oct. JP-1. No range.
Magnolia	0.5 NW,RR SE	970	22 S1	80 oct. Trees W.
Marietta	1.8 ESE,riv S	615	27 S2	80 oct.
Marion	2.5 WNW,RR S	915	28 S2	80 oct.
Newark,2, CO-PG	3.5 SW,RR N	880	25 L3 S2	73 oct. 200' stacks S.
New Philadelphia	2.5 SE,RR SW	885	36 S6	80 oct. Poles N,E,W.
Norton (Columbus)	6.5 E,RR N	800	22 S6	80, 91 oct. Pole line N.
Ohio State University (Columbus)	8 NNW,riv E	900	22h S2	80, 91 oct.
Ohio Univ. (Athens)	1.5 E,RR S	640	40 S6	80 oct.
(N) Port Columbus - NAS (Columbus)	7 E, RR S	815	50h R2 L5 S6	80-100 oct. Poles NW.
Port Core (Rushsylvania) (NC)	1.6 SSW,RR NW	1275	14	Poles NNE; trees SSW.
Price (Columbus)	6 SE	760	22 S6	80 oct. Poles S, SE.
Raven Rock (Portsmouth)	3.5 WSW,riv S	538	24 L3 S6	80,91 oct. Lgtg fac not verified.
Reed's (Watertown)	4.9 W,hwy E,S	820	13 S1	80 oct. Pole line NE.
Riverside (Zanesville)	3.4 NNE,RR W	700	40 S4	80 oct. Hill, trees NNE,SSW.
Scioto Trail State Forest (Chillicothe)(NC)	8 SSE,RR NE	640	24	
Shumate (Jackson)	8 SSE,RR NE	720	20 S1	80 oct.
Springfield	4.2 ESE,RR N	1050	27 L4 S4	80 oct.No sto.Fld lgts prior req.
Sullivant Ave.(Columbus)	6 WSW,RR NW	860	31 S6	80,91 oct. Pole line S.
Tri-Co. (New Holland)	3 ESE,RR N	850	21 S1	80 oct.
Twin Cities (Gallipolis)	1.8 ENE,riv SE	563	30	Trees E. (NC)
Washington (Wash.C.H.)	4.5 ENE,RR S	910	22 S1	80 oct. Pole line S.
Wolfords (Amanda)(NC)	0.8 E, RR NW	960	13	
Woodsfield (NC)	1 W,hwy NE	1220	19	
(P) Wynkoop (Mt.Vernon)	1.4 SSW,RR NW	1050	34 S1	80,91 oct.Pole line E. RR E.
Zaleski St. Forest Svc.	1 SSW,RR NW	705	22	(NC)
(P) Zanesville	6.2 E,hwys N,S	902	50h R1 L5 S1	80 oct. prior req.
(P) Huntington(Chesapeake)	2 WSW, riv S	560	29h R1 S6	73, 80 oct

WEST VIRGINIA

Bollinger(Charleston)	4.5 SW,riv N	900	21 S4	80 oct.
Clark (Winfield)	5 N St.Albans	600	27 S6	73 oct. No sto. River E.
Morris (Williamson)	5 NNW,RR E	600	12 S1	80 oct. Pole line S.
Princeton	1.7 SW,hwy E	2450	20 S4	80 oct.
Ravenswood	0.6 NNW,RR W	600	23 S1	Ltd 80 oct. Obsts sur fld.
Roane Co. (Spencer)	1 SE,hwy NE	954	17 S1	80 oct.
(P) Scott (Mt.Hope)(Beckley)	2.6 N, RR E	2440	33 L1 S6	80, 91 oct. Trees N.
Stewart (Parkersburg)	2.3 NNW,riv W	602	33 S6	80 oct. Pole line SE.
(P) Wood Co. (Parkersburg)	7 NE, hwy E	835	45h L5 S6	80, 91, 100 oct.All lgts prior req.
Logan	7.2 NNW,riv E	630	15H S1	80 oct.Hill S,N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII(NC)-Not charted. → NEW OR REVISED DATA

PITTSBURGH

RADIO

PENNSYLVANIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALLEGHENY CO. ARPT (Pittsburgh)	278 (126.18 (118.7)	AC	(4);140.1,131.1,126.18
ALTOONA (Altoona-Blair Co.)	338(RF) (116.1)	SBMRAZ-VDT;203° 1.3	(4);116.1
CECIL FM	(- - -)	FM, 265°, 10.3	Pittsburgh
GREATER PITTSBURGH AIRPORT PITTSBURGH	396 (126.18	CA	(3);126.18
HOOKSTOWN FM	(- - - -)	FM,308°, 32	Pittsburgh
MT. PLEASANT FM	(- -)	FM,124°, 24.7	Pittsburgh
NEW ALEXANDRIA FM	(-)	FM, 85°, 30	Pittsburgh
PITTSBURGH	254(PT) (116.1)	SBRAZ-VDT :85°, 2.2	(3);116.1
SUMMERHILL FM	(- - - -)	FM, 281° 22	Altoona
CECIL	219(C)	FMK,265°,10.3	Pittsburgh

VIRGINIA

FRONT ROYAL	362(FZ)(116.1)	SBMRAZ-VDT	(4);116.1
GORDONSVILLE (Int)	388(GJ)(116.1)	SBMRAZ-VDT;135°2.6	(4);116.1
LYNCHBURG (Preston Glenn)	206(LB)(116.1)	SBRAZ-VDT;165°,2.1	(4);116.1

WEST VIRGINIA

ELKINS	281(EK)(116.1)	SBMRAZ-VDT; 174°,2	(4);116.1
MARTINSBURG	209(MR) (116.1)	BMRLZ-VDT;35°,2.9	(4); 116.1
MORGANTOWN	269(MG)(116.1)	BMRLZ-VDT;173°,5.6	(4);116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
				IM	MM	OM
PITTSBURGH, PA.			95° Mag.		MMK 201---(.80)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Columo Indicate VHF on which Voice is Available.

AIRPORTS

MARYLAND

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Cumberland	2.5 S;riv N,S	780	58h L5 S1	80 oct. Mtns SW.
Mexico Farms(Cumberland)	3 S;RR E	630	36 S2	80 oct,Mtns E.

OHIO

Scott (Tiltonsville)(NC)	1.5 SSW;riv E	650	25	
Toronto	1.5 NW;riv E	1050	22	

PENNSYLVANIA

Allegheny Val'y(Tarentum)	3.2 W;RR W	1125	24 S4	80 oct.
Altoona(Duncansville)	1 SW;RR E	1050	36 S4	73 oct.
Altoona-Blair Co.24A-CO-PG	15 SSE	1495	44h R1 L4 S2	80,91 oct.
* Buckstown Int,12B,WA-CV	1 E;hwy S	2480	23 L3	
Connellsville	4 SSW;hwy E	1250	34h S2	80 oct.
Cresson	1 NE;RR W	2240	25 S2	80 oct.Pole line S.
(A) Greater Pittsburgh (Pittsburgh)(A)	15 WNW;riv N	1145	55h R1 L5 S4	91,100 oct.JP-1
Greene County (Waynesburg)	2.7 E;RR NW	1100	32 S6	80 oct.
Hamilton (Indiana)	2.5 E;hwy S	1440	26 S6	80 oct.Pole line S.
Harrison City	1.1 NW;hwy S	1230	17	Poles NW.
Huntingdon	1 S;riv NE	620	20 S4	80 oct.Pole line W.
(P) Johnstown	4.7 E;hwy N	2282	45h	
Keystone (Ebensburg)	3 SW;RR NW	2100	23 S4	87 oct.Obst sur fld.
Latrobe	2.8 SSW;hwy N	1144	23h S4	80 oct.
Leechburg	1.6 ESE;hwy W	960	30 S6	73 oct.Pole line N.NE.
Mayer (Pittsburgh)	10 WSW;RR S	770	16 S4	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII) (NC)-Not charted.

PENNSYLVANIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
New Alexandria	1.5 ENE;hwy N	1200	18 S4	80 oct. Pole line N.
PITTSBURGH-ALLEGHENY CO. (Pittsburgh)	5.3 S;RR NW	1251	57h R2 L6 S6	80-100 oct.No ctc lgts.Rdo rec req.
Pittsburgh-Bettis (Pittsburgh)	5 SSE	1250	25h S6	80,91 oct.
Pittsburgh-Greensburg (Greensburg)	2.3 SE;hwy N	1280	26 L3 S6	80 oct.Twr W.No bndry lgts.
Pitt-Wilkins(Pitcairn)	1 NNW	1200	17 S2	80 oct.
Salix	0.6 S;RR NW	2200	24 S4	80 oct.
Somerset	2NNE;RR SE	2200	27 S4	80 oct. Pole line W.
Stultz (Altoona)	10.7 NNE;RR N	970	35 S6	73,80oct.Pole line N,E,NE.
Vandergrift	2 WNW;RR E	1000	21 S2	73 oct. Pole line NW.

VIRGINIA

Augusta(Waynesboro)	6 WSW;riv SE	1420	24 S4	80 oct.Bad pole line SE.
Buford's (Montvale)	0.5 S;hwy N	1000	33 S6	80 oct. 100' hill E.
Covington-Clifton Forge	6.5 E;hwy S	1115	24 S4	80 oct.
Gordonsville	2.9 NE;RR S,SE	475	18 S6	80 oct. Trees NE,SW.
* " Int,51,NA-WA	5 SSE	438	31 R1 L3	Pole line SW.
Hartman(Harrisonburg)	1 NW	1350	22 S4	80 oct.
Ingalls (Hot Springs)	3 S;hwy W	3780	31 S2	80 oct. Closed winters.
Lexington	2.7 SW;hwy S	1200	17 S1	73 oct. Pole line NE,SW.
Narrows	1 E;RR S	1550	20 S2	Ltd 80 oct. Trees W.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
Staunton	4.4 NE;RR NW	1300	26 S6	80,91 oct.Pole line NNE.
Stokes (Front Royal)	2.5 W;riv E	735	19 S2	80 oct. Pole line S,E.
Timberlake (Lynchburg)	9.5 SW;RR N	950	26	
University of Virginia (Charlottesville)	5 ESE;riv E	300	35 S6	80 oct. Trees ESE.
Valley (Waynesboro)	1.7 NNE;RR E	1300	26 S2	80 oct. Pole line ENE,SSW
Winchester	3 SSE;hwy E,S	700	22 S6	80 oct.
Orange County (Orange)	4 E;hwy S		20	Data unverified.
→ Covington	1 NE	1500	20 S4	80 oct. Unverified.

WEST VIRGINIA

Baker Airpark(Burlington)	0.5 NNE;hwy S	740	19 S4	80 oct.
(P) Benedum (Clarksburg)	6 E;hwy S	1170	38h S6	80,91 oct.
(P) ELKINS	2.6 S;RR W	1965	45h R1 L5 S4	80,91 oct. No sto.
Forman (Terra Alta)	1 N;hwy W	2750	18 S4	80 oct.No sto.Data unver.
Glendale	0.5 WSW;bet RR & river	640	29 S6	80 oct.Trees N,S;pole line S.
(A) Greenbrier AAF (White Sulphur Springs)(A)	2 SW	1795	35h	
Hinton	4.8 WSW;RR E	2600	26 S4	80 oct. Pole line NNW.
Hinton-Alderson(Pence Springs)(NC)	1 E;riv,RR S	1520	26	Hill W,E.
Lewis (Buckhannon)	2.4 W;hwy N	1435	18 S4	80 oct.No sto.Hills sur fld.
Louis Bennett(Weston)	3.2 N;RR E	996	37	Hill S;pole line WNW
Marlinton	1.5 NNE;RR SE	2475	21 S2	80 oct. Hill WNW
(P) Martinsburg	4 S;hwy W	550	50h R1 L5 S6	80,91 oct.
Moorefield	0.8 NE;RR W	980	26 S4	80 oct. Trees WNW.
(P) Morgantown	2.2 ENE;hwy NW	1254	36h R1 L3 S6	80 oct.
* Petersburg Int,29,CC-WA	1.2 WSW;riv N	945	27 L2 S4	80 oct. No sto.
Ridgeway (Bunker Hill)	2.3 SSW;RR E	600	20 S6	80 oct.No sto.Pole line SSW.
Romney	2.1 NNE;riv W	750	16 S2	80 oct.Mts WNW,ESE,SSE.
Ronceverte	2 N;hwy SE	2175	18 S2	80 oct.
* Sutton Int, 21, CC-WA	3.6 ENE;RR W	1264	32 L3	
→ Weirton(Hollidays Cove)	1.5 E		11 S6	80 oct. Data unverified.
(P) Wheeling Ohio County	7.5 NNE;riv W	1190	50h L5	All lgts prior req.

→ NEW OR REVISED DATA

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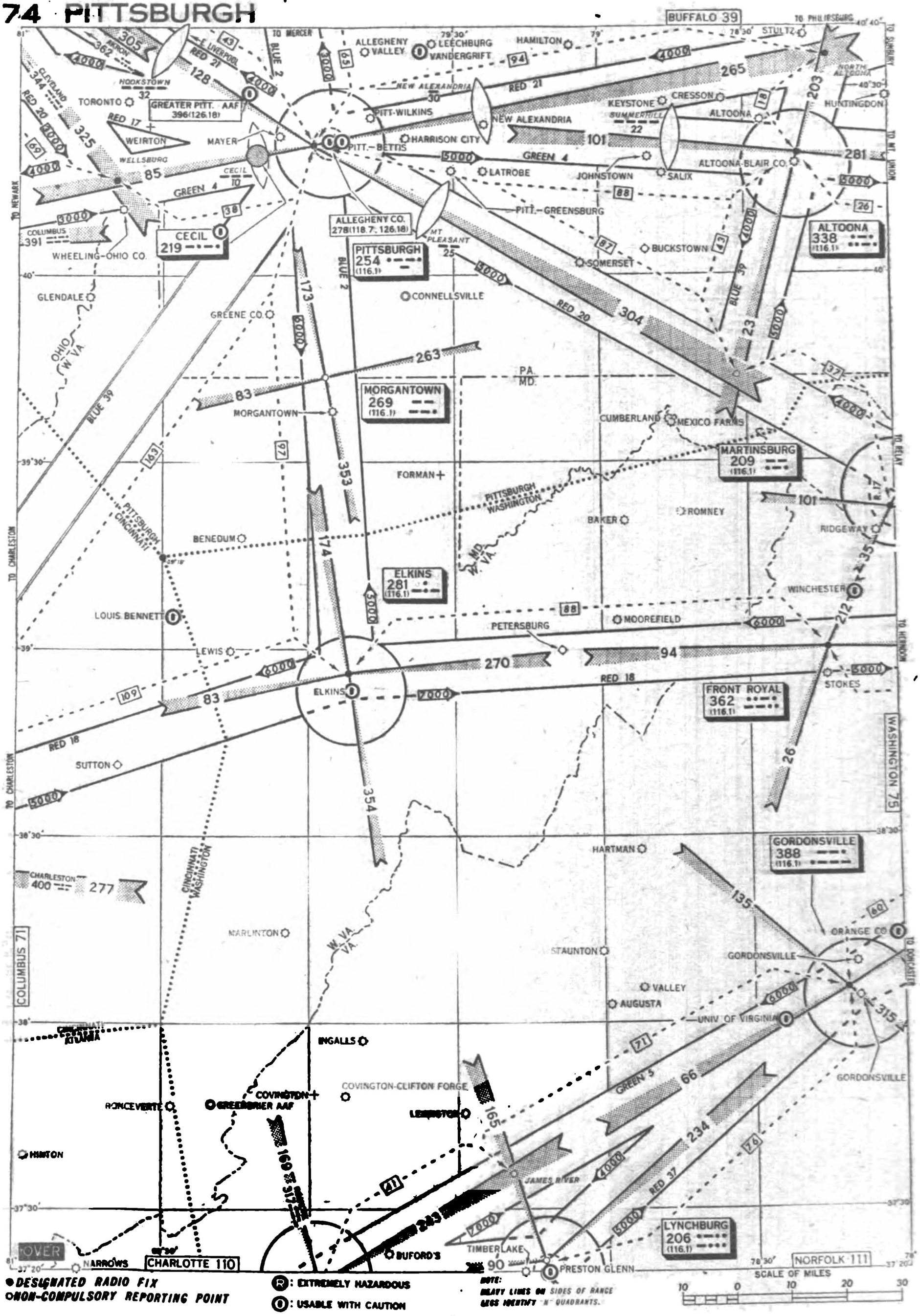
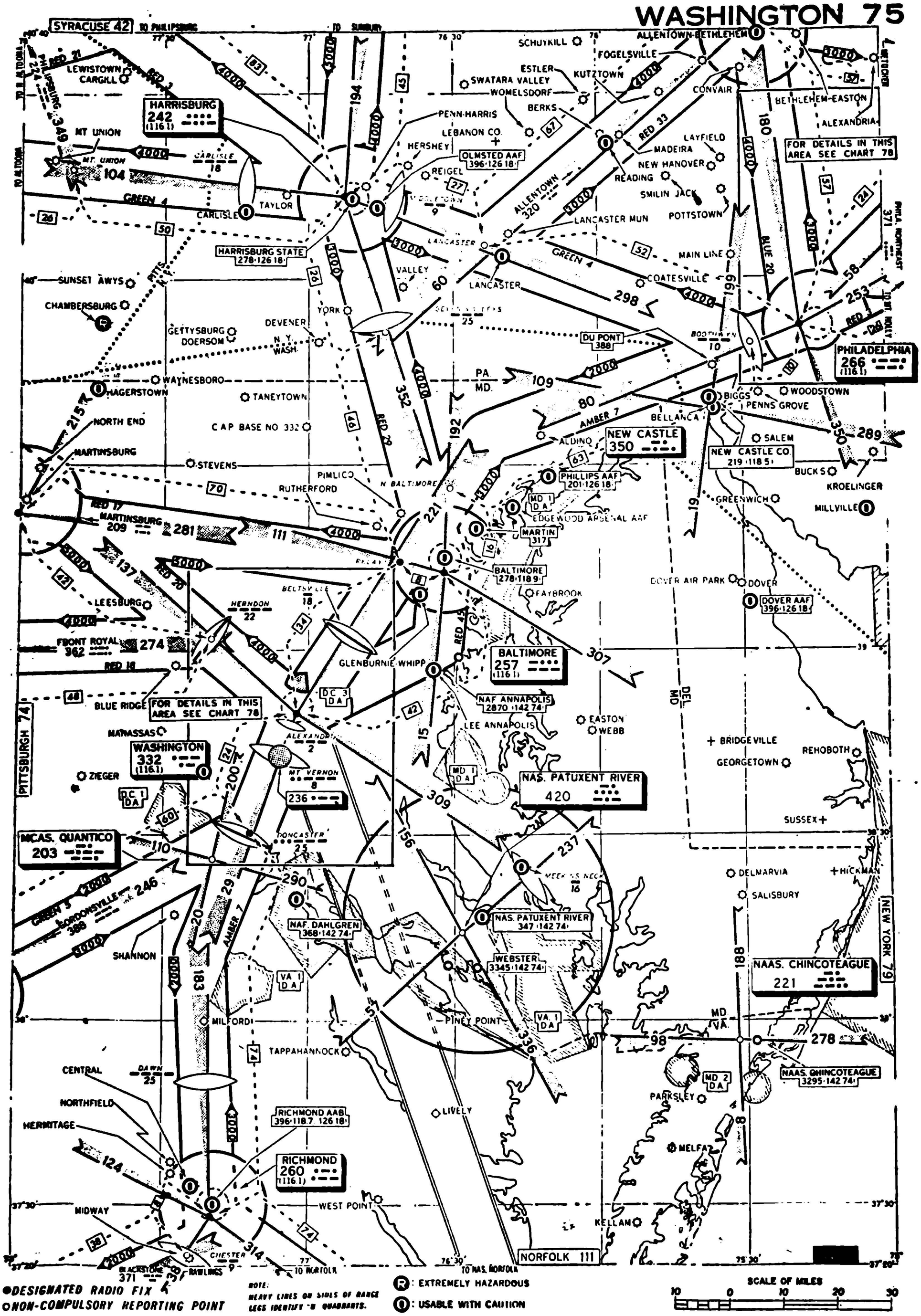


WASHINGTON 75



RADIO

	LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
DELAWARE	DOVER AAF	396 (126.18)	CA	(3); 126.18 (7-19)
	DUPONT ARPT (Wilmington)	388	CI	3105,3117.5,5582.5(8-20 daily except Sun.)
	NEW CASTLE	350 (NC)	SMRAZ	
	New Castle Co.Arpt.	219(113.6)	CI; 19°, 2.8	3105,6210,3117.5;118.5
D.C.	WASHINGTON	332 (WA)(116.1)	SBRAZ-VDTX	(3); 116.1
MARYLAND	ANNAPOLIS	2870 (142.74)	CN	3105,2870,6420; 142.74 (7-17)
	BALTIMORE	257 (BO)(116.1)	BMRLZ-VDT	(3); 116.1
	Baltimore Mun. Arpt.	278 (118.9)	C; 12°, 2.3	(4); 131.9,126.18,118.9
	BELTSVILLE FM	(-)	FM; 41°, 17.6	Washington, D. C.
	DONCASTER FM	(. . - - -)	FM; 209°, 24.7	Washington, D. C.
	MARTIN ARPT (Baltimore)	317	CI	(4)(8-sunset Mon.- Fri.)
	MEEKINS NECK FM (Navy)	(-)	FM; 57°, 16	Patuxent River
	PATUXENT RIVER (Navy)	420 (NHK)	BMRLZ	(3); 142.74 (OCA)
	Patuxent River NAS	347 (142.74)	CN; 57°, 4	(3); 142.74
	PHILLIPS FIELD (Aberdeen)	201 (126.18)	CA	(3);126.18 (8-18, Mon thru Fri.)
	WEBSTER (Priest Point)	3345 (142.74)	CN	3105; 142.74 (8-1630)
PENN.	BOOTHWYN FM	(- - -)	FM, 260°, 9.5	Philadelphia
	CARLISLE FM	(- - - -)	FM, 284°, 18	Harrisburg
	HARRISBURG	242 (HX)(116.1)	SBRAZ-VDT	(3); 116.1
	Harrisburg State Arpt.	278 (126.18)	C; 118°, 1.1	(4); 116.1,131.9,126.18
	MIDDLETOWN FM	(- -)	FM, 118°, 9	Harrisburg
	OLMSTED FIELD (Middletown)	396 (126.18)	CA	(4); 126.18
	PHILADELPHIA(Southwest Arpt)	266 (PG)(116.1)	SBMRAZ-VDT;97°, 3	(4); 116.1
	SEVEN VALLEYS FM	(- - -)	FM, 172°, 25	Harrisburg
VIRGINIA	ALEXANDRIA LFM	(- - -)	LFM, 209°, 2.4	Washington, D. C.
	CHESTER FM	(- -)	FM, 218°, 9.15	Richmond
	CHINCOTEAGUE (Navy)	221 (NKZ)	MRLZ	3105,4495; 142.74
	Chincoteague NAAS	3295 (142.74)	CN; 98°, 4.5	(3); 142.74
	DAHLGREN NAP PROV.GROUNDS	368 (142.74)	CN	(3); 142.74 (8-16 except Sun.)
	DAWN FM	(- - - -)	FM, 3°, 25.1	Richmond
	HERNDON FM	(- - - -)	FM, 317°, 21.8	Washington, D. C.
	MOUNT VERNON FM	(. . - - -)	FM, 209°, 8.2	Washington, D. C.
	QUANTICO MCAS (Navy)	203 (NYG)	MRLZ	3105,4495
	RICHMOND	260 (RW)(116.1)	SBRAZ-VDT	(3); 116.1
	Richmond AAB	396 (126.18)	AC (ILS),20°, 1.9	(4); 131.9,118.7,126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
RICHMOND AAB, VIRGINIA	109.9		63° Mag.	IM (.17)	MM (.90)	OM (4.50)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

	AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DELAWARE	Bellanca (New Castle)	1.5 W	30	25h L1 S5	80,91 oct. Poles N.
	Biggs (New Castle)	1 NW;riv S,SE	60	21 S2	80 oct.
	Bridgeville	1.5 S	20	27 S6	80 oct. Data not verified.
	Dover	1.4 ENE;crk NW	34	19 S2	80 oct. Pole line N.
	" Airpark	2.2 N; rd W	37	25 S2	80 oct.
(A)	" AAF (A)	4 SE; hwy E	28	70h R1	INACTIVE.
	duPont (Seaford) (NC)	0.8 WSW; RR NE	25	21	Poles NE. PRIVATE. RESTRICTED.
	" (Wilmington)	3 WNW; RR E	185	29 R1 L4 S4	80 oct. No sto.
(P)	Georgetown	1.5 E; RR NW	51	50h	
(P)	New Castle County (Wilmington)	4.8 SW;hwy SE	75	70h R2 L5 S1	80,91 oct.
	Rehoboth Beach Aircrafters	2.5 W; hwy N	10	35 S6	80,91 oct. Obsts sur fld.
	Skycraft (Wilmington) (NC)	3 NE; rd N	250	15	Poles N,W,S; trees NW,SE.
	Sussex (Frankford)	1 N		24 S4	80 oct. Data not verified.
MARYLAND	Aldino (Churchville)	2.2 NE;RR SE	400	20 S6	80 oct.
	Andelot (Worton)(NC)	4 WNW; bay W	25	20	Trees N.
	BALTIMORE MUN.	6 SE; RR NE	14	46h R2 L5 S6	80,91 oct; 100 oct prior req.
	C.A.P Base (Westminster)	2.6 N; hwy E	780	20 S4	80 oct. Pole line E, NE.
	Delmarvia (Salisbury)	2.8 NE; hwy W	45	21 S6	80 oct. Pole line N,E,NE.
	Easton	2.2 N; RR E	66	40h S4	80 oct. No sto.
(A)	Edgewood Arsenal (A)	1.3 S	18	50h L5 S4	91,100 oct. No bcn. CLOSED.
	Faybrook (Rock Hall)	1.5 NNW; bay W	20	14 S4	80 oct. Trees WNW, NNE.
	Glenburnie-Whipp	1 E; hwy W	56	26 S6	80 oct. Seaplane Anchorage.
	Hagerstown	4.2 N; RR W	700	39h L3 S4	80 oct. Fld lgts prior req.
	Lee Annapolis (Annapolis)	4.8 WSW;hwy E	30	28 S1	73 oct. Pole line ESE.
	Martin (Baltimore)	10 E; RR N	18	70h R1	PRIVATE.
(N)	Patuxent River NAS (N)	2.9 NE Jarboes	38	97h R2 L6 S4	91,100 oct. JP-1. NATS.
(A)	Phillips (Aberdeen)(A)	3.2 S; RR W	57	50h R1 L5 S1	91,100 oct. CLOSED.
	Pimlico (Baltimore)	6 NW; hwy SW	400	32 S6	80, 91 oct.
(N)	Piney Point (N)	0.8 WNW	10	14h S1	73 oct. Use rnwys only.
	Rutherford (Baltimore)	7 W; RR W	500	23 S6	80 oct. Twr N
	Salisbury	5.3 ESE	52	50h	
	Shady Side (NC)	1.8 SSW; RR W	10	15	Pole line SSW.
	Stevens (Frederick)	5.8 N; hwy E	440	28 S6	80 oct. Trees SW,S,N.
	Taneytown	2.9 WNW;hwy S	500	29 S4	80 oct. Pole line S,SW,W.
	Webb (Easton)	2.5 E	50	26 S6	80 oct. No sto. Pole line S, SE.
(N)	Webster (Priest Point)(N)	1.5 W Ingoes	21	50h R1 S1	Ltd 100 oct. JP-1 req.
N. J.	Alexandria (Pittstown)	2 WNW;lake NE	340	18 S4	80 oct. No sto. Trees WSW,ENE.
	Buck's (Bridgeton)	2.7 NNE; RR S	100	18 S4	80 oct. Pole line S, W.
	Greenwich	2.5 W; riv SW	30	21 S6	73,80 oct. Trees N.
	Kroelinger (Vineland)	2.5 NNW;RR E	100	19 S6	80 oct. Pole line S, E.
(P)	Millville	3.3 SW;lake N	68	50h	
	Penns Grove	3 SE; riv W	10	22 S2	73 oct. Pole line W, SSW.
	Salem	2 ESE; rd S	15	22 S6	80 oct.
	Woodstown (Auburn)	1.5 SSE; RR E	100	20 S1	80 oct. Pole line N, NE.
PENN.	ALLENTOWN-BETHLEHEM (Allentown)	4.6 NNE; RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only.Fld lgts prior req.
→	Berks (Reading)	4.5 NW; hwy SW	360	23 S4	80,91 oct. Hill NW.
	Bethlehem-Easton (Easton)	4.5 SW; riv S	360	23 S6	80,91 oct.No sto.Pole line sur fld.
	Cargill (Granville)	1.5 SW; RR SE	490	23 S2	73 oct. Obsts sur fld.
	Carlisle	1.8 WSW; RR N	480	23 S2	73 oct.
	Centerville (Carlisle)(NC)	11.3 SW;RR N	660	23	Trees E, NE.
	Chambersburg	1.2 SSE;RR SW	650	22 S6	80 oct. E/W strip rough.
	Coatesville	1.6 W; RR S	623	26 L1 S4	80 oct. Obsts sur fld.
	Convair (Allentown)	3 SSW	399	40h	
	Devener (Hanover)	2 NNE; hwy W	590	20 S6	73,80 oct.
	Doersom (Gettysburg)	2.4 NW; RR N	590	19 S6	73 oct. Pwr line NE.
	Estler (Mohrsville)	3.5 W; pond W	300	22 S6	Ltd 80 oct. Trees W.
	Fogelsville	0.7 E; RR SE	460	22 S4	80 oct. No sto. Pole line SW.
	Gettysburg	2.8 NNW;RR SW	600	24 S3	80 oct. No sto.
	HARRISBURG STATE	3.5 S; RR N	344	40h R2 L5 S6	80,91,100 oct.
	Hershey	1.1 NNW;RR S	415	21 S2	80,91 oct.
	Kutztown	1.5 S; RR SE	400	25 S4	73 oct.
	Lancaster	1.5 NNW;RR SW	320	26 S6	73,80 oct. Pwr line W.
	" 35,CO-PG	5.5 N; hwy W	385	27h L4 S4	80 oct. Poles S, WSW.
	Layfield (New Hanover)	2 NE; hwy W	320	17 S6	80 oct. Trees NE.
	Lebanon County (Myerstown)	2 W; dam N		20 S4	80 oct. Data not verified.
	Lewistown	4 SW; riv SE	560	19 S6	80 oct. Wooded hill NW.
	Madeira (Reading)	3.2 N; RR W	360	20 L S6	80 oct. Port flood lgts.
	Mount Union	4 S; hwy E	560	30 S4	80 oct.
	New Hanover	0.5 W; hwy SE	320	20 L S4	80 oct. Port flood lgts.
(A)	Olmsted (Middletown)(A)	1 W;RR N;riv S	300	50h R1 L5 S6	62-100 oct.JP-1. Poles N, NE.
	Penn-Harris (Harrisburg)	4 ESE; RR N	400	25 L S6	80,91 oct.Floodlgts.
	Philadelphia Main Line (Paoli)	2.8 WNW;hwy S	310	21 S4	No fuel. Pole line ESE.
	Pottstown	4.5 E; hwy N	311	30 S6	80 oct. Bldg NW.
	READING	3 NW; riv E	342	52h L1 S6	B-2 lgts prior req.
	Reigel (Campbelltown)	1 N; hwy N	475	20 S4	80 oct.
	Schuylkill (Pottsville)	8.3 ESE;lke SE	510	29 S6	80 oct. Hills SW, E, NE.
	Smilin' Jack (Douglassville)	1.3 NW; RR S	200	24 S4	80 oct.
	Sunset Airways (Chambersburg)	3.5 NNE; rd E,S	650	25 S1	80 oct. Pole line E, NNW.
	Swatara Valley (Pine Grove)	4 WSW; RR N	480	21 S4	80 oct.
	Taylor (New Kingston)	0.5 SE; hwy N	440	28 S6	80 oct. Pole line N.
	Valley Airpark (York)	3 ENE; RR N	420	21 S4	80 oct. Poles SSE,NNW.
	Waynesboro	3 SE; hwy N	700	20h S6	80 oct.
	Womelsdorf	3 NW; hwy E	540	13 S1	73 oct.
	York	8.3 WSW;RR E	500	19 L S6	73,80 oct. Floodlgts. Pole N.
VIRGINIA	Blue Ridge (Herndon)	4 WSW;hwy NE	280	30	Pole line E.
	Central (Richmond)	2.5 ENE;RR W	172	45 S6	80 oct. Poles WNW, SE.
(N)	Chincoteague NAAS (N)	4.5 WNW;hwy S	38	60h R2 L5 S4	100 oct.
(N)	Dahlgren NAP Proving Grounds (N)	0.5 E	20	40h R1 L5 S2	100 oct. CLOSED.
	Harcum (NC)	0.2 NW	85	35	Poles, trees sur fld.
	Hermitage (Richmond)	3.2 NNW; RR W	200	20 S6	80 oct. Trees, poles E,W.
	Hummel (Greys Point)(NC)	3 NE Harmony	30	21	Obsts sur fld.
	Kellam (Weirwood)	0.3 SW; RR E	15	20 S1	73 oct. Trees NE,SE.
	Leesburg Airpark	0.7 ESE	280	26 S6	80 oct. Pole line NE.
★	Lively Int,6 NW-WA	3.4 WSW;riv W	15	34 L3	35' trees, bldgs NW.
	Manassas	2.7 NW; RR S	250	21	Pole line SW,SSE.
	Melfa Flight Strip	1.3 W	48	70h	
	Midway (Chester)	2 E; hwy S	178	26 S2	80 oct. 20-50' trees E.
★	Milford Int,49B,AO-LO	1.5 S; RR W	134	26 L3	40' trees S,NE,SW.
	Northfield (Richmond)	3 N; hwy W	197	20 S4	80 oct.
	Parksley	0.6 WNW	25	18 S4	80 oct.
(A)	RICHMOND AAB (A)	7.3 ESE;RR S	160	50h R3 L5 S4	73,100 oct.
	Shannon (Fredericksburg)	1.6 SSE;riv E	50	23 S6	80 oct.
	Tappahannock Flight Strip	0.8 W	30	40h	8000' strip avail.
	West Point	2.3 ESE;riv SSW	24	50h S4	
	Zieger (Warrenton)	3.7 S; hwy NE	440	20 S2	80 oct. Hill NW,W.
W.VA.	(P) Martinsburg	4 S; hwy W	550	50h R1 L5 S6	80,91 oct.
	North End (Martinsburg)	2.5 NNE;RR W	515	28 S2	80 oct. Pole line N.
	Hickman (Ocean City)(Md.)	7.5 NW	15	27 S1	80,91 oct.Data unverified.
→	Annapolis Md.	2 SE		18h S4	80,91 oct.No sto.Data unver.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — DISTRICT OF COLUMBIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANACOSTIA NAS (Washington)	251(142.74)	CN	(3);142.74(7-sunset and on req.)
BOLLING FIELD (Washington)	219(126.18) (128.16)	CA	(3);126.18,128.16
WASHINGTON	332(WA)(116.1)	SBRAZ-VDTX	(3);126.18
Washington Nat'l Arpt.	278(126.18) (118.5)	AC(ILS);259°,0.9	(4);118.5,126.18,131.9
MARYLAND			
ANDREWS FLD (Camp Springs)	317(126.18)	CA	(3);126.18
BELTSVILLE FM	(-)	FM, 41°,17.6	Washington, D. C.
DONCASTER FM	(. . . - - -)	FM, 209°,24.7	Washington, D. C.
PENNSYLVANIA			
BOOTHWYN FM	(- - -)	FM, 260°,9.5	Philadelphia
HOLMESBURG LFM	(- - -)	LFM, 238°,6.5	NE Philadelphia
JOHNSVILLE AIRPORT	203 (142.74)	CN	3105 cont,4495,6210;116.1,126.18, 140.58,142.74 on req (8-1/2 hr past sunset)
MUSTIN NAAF (Philadelphia)	251(126.18) (142.74)	CN	(3);126.18,142.74 (7-sunset,other hrs req on request.)
PHILADELPHIA (SW Arpt)	266(PG)(116.1)	SBMRAZ-VDT;97°,3	(4); 116.1
Philadelphia NE Arpt	278	CI	(4)
Philadelphia SW Arpt	278	CI	(4)
NE Philadelphia Hange (Phil. NE Arpt)	371 (NF)	MLWZ-DT,238°,2.8	
WILLOW GROVE (Navy)	391 (NXX)	MRLZ	(3); 142.74
Willow Grove NAS	356 (142.74)	CN; 241°,3.35	(3);142.74 (days only except on 1 hr advance notice)
WINGS FIELD (Ambler)	278	CI	3105 (9-17)
VIRGINIA			
ALEXANDRIA LFM	(- - -)	LFM,209°,2.4	Washington, D. C.
HERNDON FM	(- - - -)	FM, 317°,21.8	Washington, D. C.
MOUNT VERNON	236 (W)	FMK, 209°,8.2	Washington, D. C.
MOUNT VERNON FM	(. . - - -)	FM, 209°,8.2	Washington, D. C.
QUANTICO (Navy)	203 (NYG)	MRLZ	3105, 4495
Quantico MCAS	3295(142.74)	CN; 209°,4.6	(3); 142.74

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WASHINGTON, D. C.	109.9	333.8	360° Mag.	IM ·····(.03)	MM	OM --(3,50)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs..
(4)-3105,4495,6210,3117.5 kcs.. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

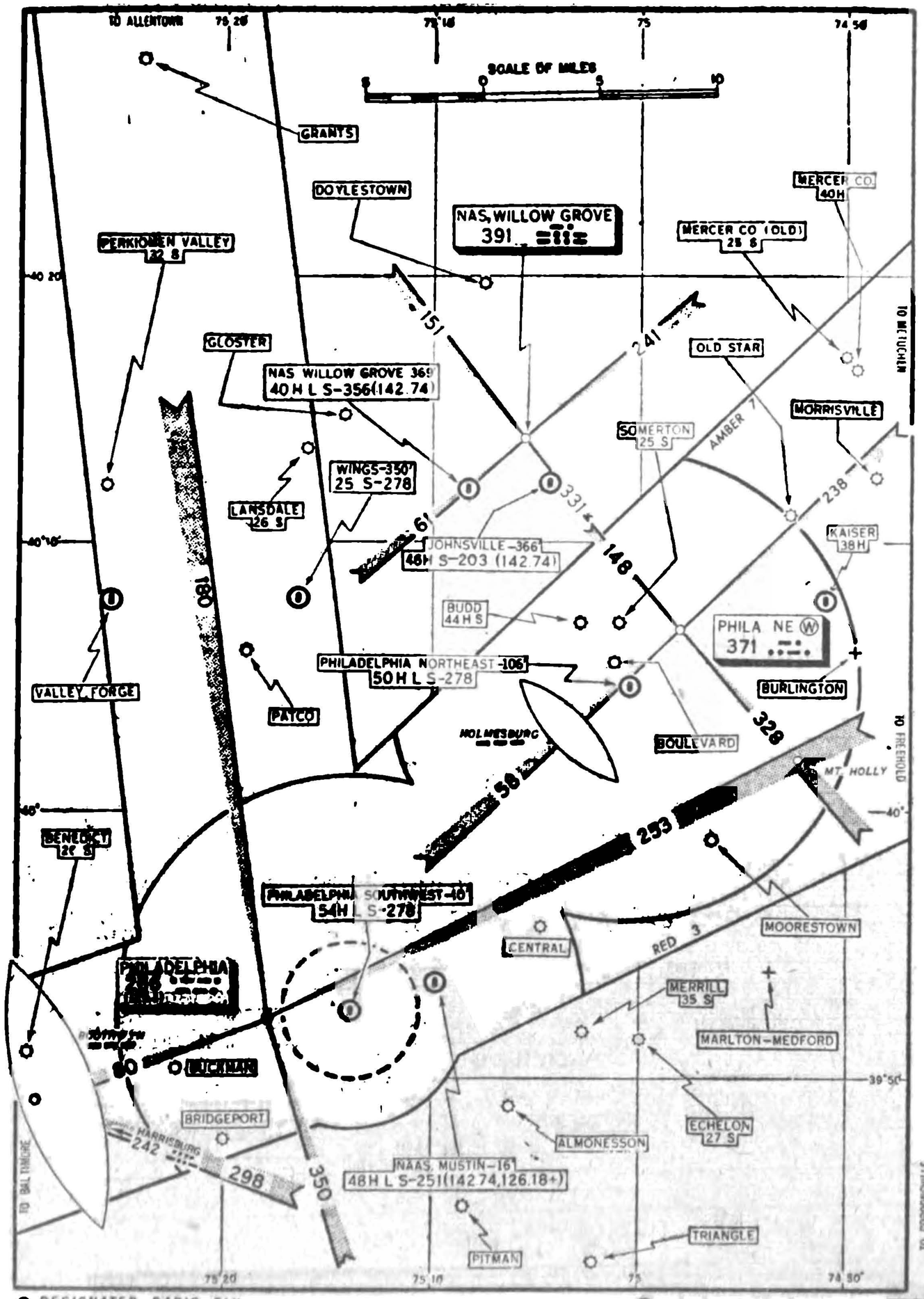
AIRPORTS — DISTRICT OF COLUMBIA

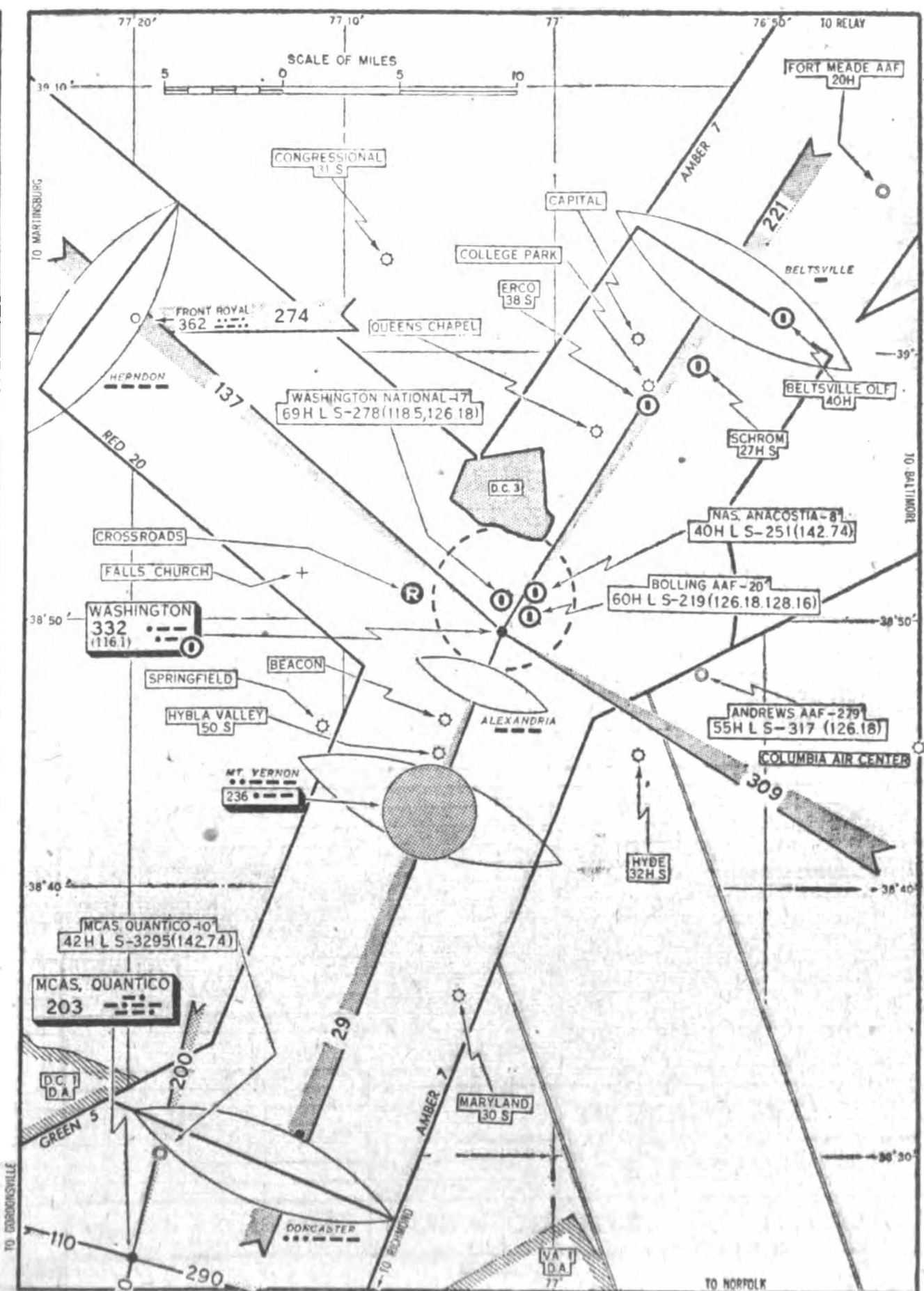
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Anacostia NAS(Washington)	2.4SE Monument	8	50h R1 L5 S4	100 oct. No ben. (N)
(A) Bolling(Washington)(A)	3 SSE Monument	20	60h R1 L5 S6	73,91,100 oct.JP-1.Ridge E
(A,N)Washington National	2 S Monument	17	69h R3 L6 S2	80,91,100 oct.JP-1 req. Rdo rec req.730'Rdo Twr,6.2 NW. FOREIGN CLEARING STA.
MARYLAND				
(A) Andrews (Camp Spring)(A)	1.5 E	279	55h R1 L5 S4	91,100 oct. JP-1
(N) Beltsville OLP (N)	5 ESE	180	40h	CLOSED.
Capital (Berwyn)	2 NW; RR E	70	20 S4	80 oct. Pole line S.
College Park	6.5 NE of D.C	49	22 S6	80 oct. Hill SE. RR NW.
Columbia Air Ctr (Croom)	3 E; RR W	40	20	Trees N,NNW
Congressional (Rockville)	2 SSE;hwy E	450	32 S6	80 oct. Pole line E,NE.
Curtis (Brandywine)(NC)	3 SSW;RR E	200	18	Pole line N,W.
Erco (Riverdale)	0.4 NE; RR W	50	38 S1	80 oct. Trees E,NE,SW.

h-hard surfaced runways.* R-radio facilities. L-lighting facilities. S-servicing.(See page xiii) (NC)-Not charted. → NEW OR REVISED DATA

MARYLAND

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(F) Ft. Meade (A)	0.5 NE ctr rec	180	20h	
Hyde (Clinton)	2 WSW	249	32h S6	80,91 oct. Trees WNW,NE.
Maryland (Pomonkey)	0.2 S; RR S	170	30 S1	80 oct.
Queens Chapel (Hyattsville)	1.5 W; hwy NE	34	17 S6	80 oct.
Schrom (Greenbelt)	0.3 SW; hwy W	177	27h S6	80 oct. Trees NW,SE.
NEW JERSEY				
Almonesson	0.6 NNW	50	18 S6	73 oct. Pole line NNE,SSE.
Bridgeport	0.8 ESE; RR N	23	18 S4	80 oct.
Burlington Airpark	1.7 NE		24 S4	80 oct. No sto.Data unverified.
Central (Camden)	1.8 E;riv S,W	20	25h	Open to private flying.
Echelon (Ashland)	0.5 SE;RR W	100	27 S6	80,91 oct. Pole line NW.
Marlton-Medford (Medford)	4 W	70	19 S4	80 oct. Data not verified.
Mercer County,new (Trenton)	5 NW; RR SE	211	40h	
Mercer County, old (Trenton)	5.8 NW;RR E	200	25 S1	73,80,91 oct.
Merrill (Barrington)	1 ESE; RR E	70	35 S6	80 oct.No sto.Obsts sur fld.
Moorestown	1 NNE; RR S	70	18 S4	80 oct. Trees N.
Pitman	1.6 NNW;RR E	100	17 S6	80 oct. Pole line S,SSW.
Triangle (Glassboro)	4.3 ENE	150	18 S2	80 oct. Pole line SW.
PENNSYLVANIA				
Benedict Inc.(Chester)	6.5 W; hwy W	400	26 S4	80 oct.Rnwy data unverified.
Boulevard (Philadelphia)	12 NE; RR SW	160	22 S4	80 oct. Obst sur fld.
Buckman (Chester)	2.3 WSW;RR NW	90	20 S4	80 oct. No sto.
Bull (Philadelphia)	12.5 NE;RR N	240	44h	
Doylestown	1.5 NNE;RR SW	400	22 S6	80 oct.
Gloster (Montgomeryville)	0.7 SE;hwy W	460	22 S1	80 oct. Pole line SE,S,W.
Grants (Quakertown)	4 WNW; hwy E	600	18 S6	80 oct.
(N) Johnsville	0.8 NW; RR E	366	46h R1 S4	91,100 oct. Res't to Navy.
(N) Kaiser (Eristol)	2 N; riv SE	35	38h	Pole line SW. RESTRICTED.
Lansdale	1.6 ESE;hwy SE	450	26 S6	80,91 oct. No sto. Poles NE.
Morrisville	1.6 W;riv E	180	28 S4	80 oct.
(N) Mustin NAAS (Philadelphia)	4 S; riv S	16	48h R1 L5 S6	100 oct. Pole line NE.NAFC.(N)
Old Star (Langhorne)	2.4 E; RR N	180	24 S5	80 oct.No sto. Poles N,S.
Patco (Norristown)	2.5 SE;bet RRs	200	19 S6	80,90 oct. No sto.
Perkiomen (Collegeville)	1.5 NE;rds NE	280	32 S6	80 oct. Obsts sur fld.
(F) Philadelphia Northeast	12.2 NE;hwy W	106	50h R2 L5 S1	80,91 oct.Rdo req.
" SOUTHWEST	6.5 SW;riv SW	10	54h R2 L5 S6	82,91 oct. Rdo rec req.
Somerton (Philadelphia)	14 NE;RR N,E	200	25 S6	80 oct. Poles N,S,W.
Valley Forge (Norristown)	4 WNW;riv NW,SE	250	24 S6	80 oct.
(N) Willow Grove NAS (N)	4 NNW; hwy E	369	40h R2 L5 S4	91,100 oct. No sto.NAFC.NATS.
Wings (Ambler)	3 WSW;rds E,W	350	25 R1 S6	80,91 oct. Trees N,S.
VIRGINIA				
Beacon (Alexandria)	3 SSW;hwy E	240	24 L1 S6	80 oct.No sto. Pole line S.
Crossroads (Alexandria)	4.5 NW;RR E	250	20 S1	Ltd 80 oct.
Falls Church Airpark	1.9 SW	350	26 S6	No sto. Data not verified.
Hybla Valley (Alexandria)	4.5 SSW;hwy E	66	50 S6	80 oct. Trees,pole lines sur fld.
(N) Quantico MCAS (N)	1.2 SSW;RR W	10	42h R2 L5 S6	73,91,100 oct. NATS.
Springfield (Annandale)	3.5 SSE;RR E,N	240	20 S4	80 oct. No sto. Obsts sur fld.





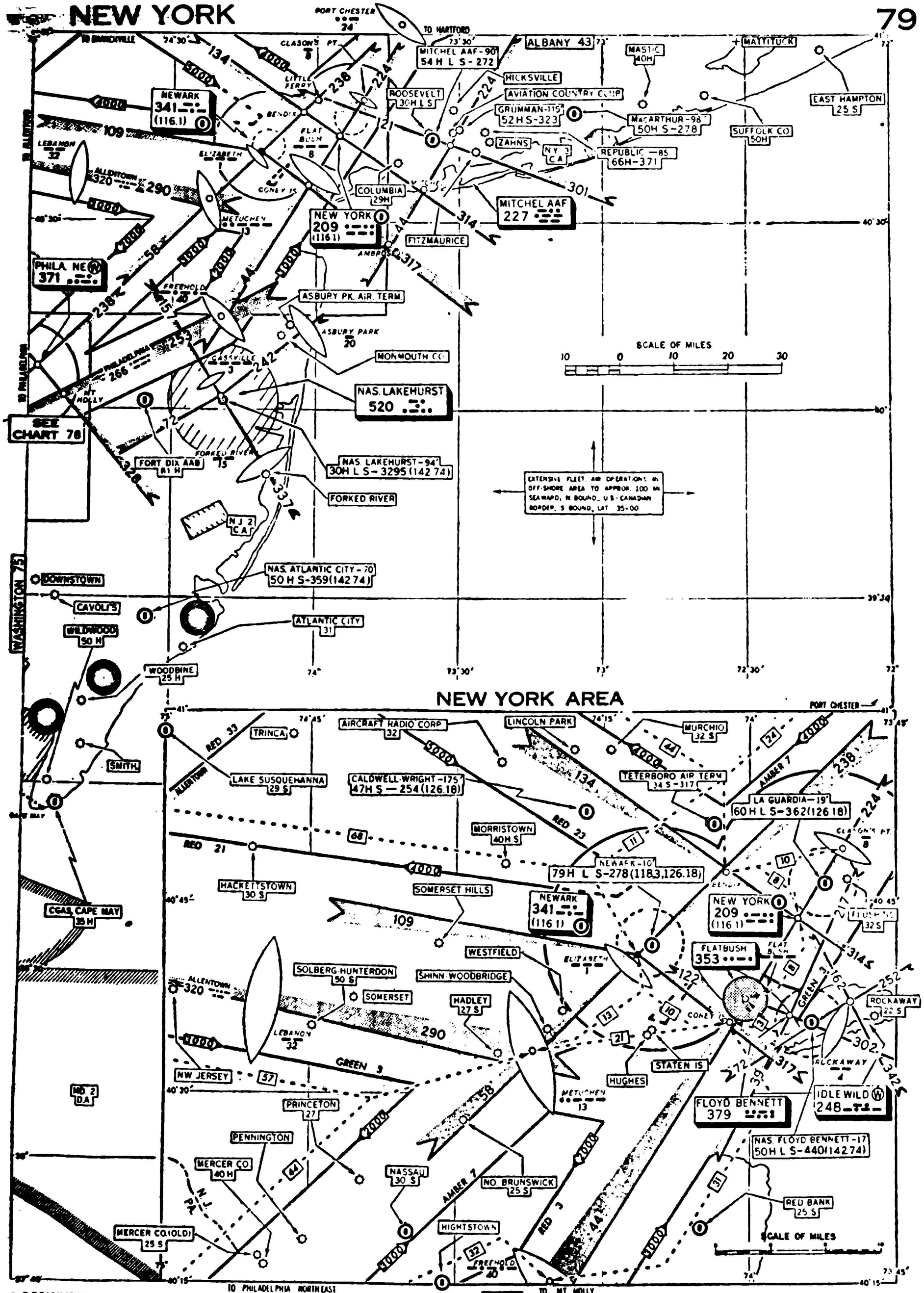
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ EXTREMELY HAZARDOUS
Ⓘ USABLE WITH CAUTION

OVER

NOTE:

NEW YORK



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓠ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "Q" QUADRANTS.

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT DATA

RADIO

NEW JERSEY

LOCATION	FREQ.IDENT	STA. CLASS, BEAR. & DIST.	FREQS.GUARD HRS. OF OPER.REMARKS
ASBURY PARK FM	(-)	FM, 62°,20	Lakehurst NAS
→ATLANTIC CITY NAS	359 (142.74)	CN	(3); 142.74 8-Sunset
CALDWELL-WRIGHT	254 (126.18)	CI	(4);126.18(8:30-sunset,Mon.-Sat.9-sunset Sun.)
CASSVILLE FM(Navy)	(- - - -)	FM,337°,3.25	Lakehurst NAS
ELIZABETH LFM	(- - -)	LFM, 238°,1.4	Newark
FORKED RIVER FM (Navy)	(- -)	FM,157°, 15	Lakehurst NAS
FREEHOLD FM	(- . - . -)	FM,224°, 40	New York, N.Y.
LAKEHURST (Navy)	520 (NEL)	MRLZ	3105 (4495 on req)
Lakehurst NAS	3295(142.74)	CN, 157°, 0.7	(3), 142.74
LEBANON FM	(- -)	FM, 110°, 32	Allentown, Pa.
METUCHEN FM	(. . - - -)	FM, 238°, 13	Newark
NEWARK	341(NK)(116.1)	SBRAZ-VDT	(3);116.1
Newark Airport	278 (126.18) (118.3)	AC (ILS); 58°,0.9	(4);131.9,126.18
→TETERBORO (Bendix)	317	CI	(3) (8 till dark)

NEW YORK

CLASON'S POINT LFM	(-)	LFM, 44°, 7.5	New York
FLATBUSH	353 (F)	FMK, 224°,8.3	New York
FLATBUSH FM	(- - -)	FM,224°, 8.3	New York
FLOYD BENNETT (New York)	379 (FB)	SBMRLZ-DT	(3)
→Floyd Bennett Fld NAS	440 (142.74)	CN, 122°, 1.9	(3) (8-17)
GRUMMAN (Bethpage L.I.)	323	CI	(8-1630,Mon.-Fri.)
IDLEWILD	248 (NY)	SMRLW,72°,2.3	
→LA GUARDIA(N.Y.)	362 (126.18)	AC (ILS),44°,3.4	(4),126.18,AAL,EAL,TWA,VAL,PCA,CAL)
MacARTHUR FIELD (Islip)	278	CI	3105 (7-17 week days,ngt & Sun.if important)
MITCHEL (Hempstead)(Army)	227 (DWM)	SBMRAPZ-DT	(3)
Mitchel Field	272	CA (ILS),301°,3.2	(3),
NEW YORK	209 (LG) (116.1)	SBMRAPZ-VDTX	(3), 116.1
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
REPUBLIC FIELD (Farmingdale)	371	CI	(3) (days)
ROCKAWAY PARK LFM	(- -)	LFM, 122°, 5	Floyd Bennett

PENNSYLVANIA

PHILADELPHIA NORTHEAST	371 (NF)	MLWZ-DT	

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
LA GUARDIA, NEW YORK	109.9		44°Mag	IM	(.05)	NW	(.81)	OM	(3.40)
						HWK 233 ---	(.81)	OMK	
MITCHEL, NEW YORK	110.3	335		IM	(.06)	HW	(.81)	OM --	(4.03)
						HWK 257 --	(.81)	OMK 201 ---	(4.03)
→NEWARK,N.J.	109.5	332.6	58°Mag	IM		MM	(.59)	OM	(3.8)
						MMK 201----	(.59)	OMK 219 ---	(3.8)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.;(4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NEW JERSEY

NAME	LOCATION	ELEV.	CLASS	REMARKS
Aero-Marine Terminal (Keyport)(NC)	1 NE;RR S	10	15	Bldg SW.Hwy S
Acft. Radio Corporation (Boonton)	2.6 N;riv S	550	32	Poles N,E. PRIVATE.
Asbury Park Air Terminal	4.5 W,rd N	100	21 S4	80 oct.125 tank E.
Atlantic City	1.3 WSW;RR N	11	31 S2	350'tank E,lgtd.No fuel.
(N)Atlantic City NAS(N)	10 NW;RR NE	70	50h R1 L5 S4	91,100 oct.Lgts prior req.
Caldwell-Wright	2.4 N;riv N	175	47h R1 L1 S1	Rest'd factory oper
Cape May CGAS	2.5 ENE	13	35h	CLOSED.
Cavoli's(Richland)	1.5 W;RR N,E	100	20 S4	80 oct.Poleline NNE No sto.
(N)Clarke(Ocean City)	2.8 SW;RR SE	8	23	Naval tow target practice.
Coyle (Chatsworth)	6 ESE;hwy NE	190	18	(NC)
Downstown(Landisv'l)	1.8 WNW;RR S	120	23 S1	80 oct.Poleline N.
Forked River	1 ESE;riv S	12	18 S4	80 oct.Rnwy data not verified.
(A)Ft.Dix AAB (Wrightstown) (A)	1 SE	120	81h	INACTIVE.
Hackettstown	2 SSW;RR N	560	30 S2	73, 80 oct.
Hadley (New Brunswick)	4 N;RR N	100	27 S6	80 oct.
Hightstown & Air Svc.	1.3 SW;RR W	110	19 S6	80 oct.
(N)Lakehurst NAS (LTA)	1 NNW;riv N	94	38h R2 L5 S4	91, 100 oct. (N)
Lake Susquehanna (Blairstown)	2.3 WSW;RR S	380	28 S6	80 oct.
Lincoln Park	1.5 N;RR W	180	23 S1	80 oct. Poleline SE, N.
Mercer Co.(Trenton) (new)	5 NW;RR SE	211	40h	
Mercer Co.(Trenton) (old) (NC)	5.8 NW;RR E	200	25 S1	73,80,91 oct.
Monmouth Co.(Belmar)	5.5 W;rd E	180	30 S5	80 oct.
Morristown	3 E;RR N	187	40h L5 S4	80 oct.No sto.
Murchio (Paterson)	4.5 WNW;rd N	350	32 S4	80 oct.Trees N.
Nassau Arpk.(Clarksville)	1 NE;RR SE	80	30 S4	80 oct.Pwrline SSE
(A)NEWARK	3.5 SSE;RR E	10	79h R3 L5 S1	80,91,100 oct.JP-1.No sto,2-way rdo req.FEI
North Brunswick	2 SW;RR E	120	25 S2	No fuel.Poles ENE,
Northwest Jersey (Clinton)	3.5 W,RR S	380	19	Poles N,S. ESE.
Ocean Co.(Adamston) (NC)	1 SW;riv N	14	21	Obsts sur fld.
Pennington	2 ESE;RR W	230	20 S6	80 oct.No sto.Pole line ESE.
Princeton	3 N;riv E	160	27	Poleline E,ESE.
Red Bank	1 S;RR E	80	25 S6	80,91 oct.Poleline W
Shinn-Woodbridge (Woodbridge)	3.9 NW;RR E	120	21 L S4	73,80 oct.Poleline SE.
Smith C.H.(Cape May)	2.2 NE;RR W	20	19	Pole line WNW.
Solberg-Hunterdon (Readington)	1 NNW;rd E	200	50 L S6	80, 91 oct. Unverified.
Somerset Hills (Basking Ridge)	1.6 SE;RR S	250	24 S6	80 oct.Pole line W.
Teterboro-Air Terminal (Bendix)	0.5 SW;RR NW	5	34 R1 L4 S1	80 oct.No bndry lgts.
Trenton (NC)	6 NE;RR 1 SE	70	15	Rest'd to USFS.
Trinca (Andover)	2 WSW;RR E	600	24 S6	73 oct.
Westfield (Rahway)	2 W;lake N	100	24 S4	80 oct.No sto. Trees SW,W,N,S.
Wildwood	6 WNW;RR E	22	50h	Obsts S.
(P)Woodbine	2 SE	39	25h	Trees sur fld. At jct RRs.

NEW YORK

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bender-Brentwood (Brentwood) (NC)	1 ENE;RR N	85	10	
Columbia (Valley Stream)	1 SW;RR N	15	29h	
Davis Flight Strip (Bayport) (NC)	1.3 NNW;RR S	40	22	
Deer Park (NC)	0.8 ESE,RR N	75	10	Trees adj E.Pole line W.
Donovan Hughes (Greenridge)	1 N;crks S,W	10	17 S1	80 oct.
East Hampton	2.5 W,RR S	40	25 S4	80 oct.No sto.
Fitzmaurice (Massapequa)	1.5 ENE;RR S	36	14 S6	80 oct.No sto.Trees N,S.
(N)Floyd Bennett NAS (New York) (N)	11.8 SSE	17	50h R2 L6 S4	91,100 oct. No sto. No bcn.
Flushing	1.5 NNW;pkwy E	4	32 L S4	80 oct.Pole line W, SW. Portable rnwy lgts prior req
Grumman (Bethpage)	0.5 W;RR NE	115	54h R1 S5	91, 100 oct.Poles SW, SE.
Hicksville Airpark	2.4 N;RR E	190	17 S4	80 oct.
(A,N) LA GUARDIA (New York)	5 E;riv N	19	60h R3 L6 S1	73,100 oct.Rdo rcv req. FEI.
(P)MacArthur (Islip)	8 NE;RRs N,S	98	50h R1 L5 S1	91 oct.All lgts, prior req.Rdo req
Mastic Flight Strip	2.6 NW	66	40h	
Mattituck	1.5 E;bay S	12	25 S4	80 oct.Poles N.
(A)Mitchel(Hempstead)(A)	0.5 NE;RR N	90	54h R3 L6 S6	73,91,100 oct.JP-1. Foreign Clearing Station.
Nassau (Hempstead)	4.5 E;hwy N	80	21	
Republic (Farmingdale)	1.3 ENE;RR N	85	66h R1 L5	NE blocked.Closed ngts.trans.PRIV.
Richmond Co.(Travis) (NC)	0.5 SW,riv W	10	24	160' chimney SW.
Rockaway (Edgemere)	1 WSW	20	22 S4	80 oct.Pwr line S, SE.
Roosevelt (Mineola)	1.6 ESE;RR N	90	30h L3 S5	80,91,100 oct. Wires NE.
Sayville (NC)	0.8 N	25	15	Trees sur fld.
Staten Island (New Springville)	1 S;rd W	40	22 S4	80 oct.Poleline SW
Suffolk Co. (Westhampton Beach)	2.6 N	69	50h	
Zahns(Amityville)	2.5 NNE;RR NE	80	22 S6	80 oct.Pole line SW.
→Somerset (Somerville) N.J.	4.6 NW;RR SE	105	20 S5	80,91 oct.Trees W.

h-hard surfaced) runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII(NC) -Not charted. → NEW OR REVISED DATA.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BANNING FM	(-)	FM, 76°, 25	Riverside
CASTAIC FM	(- - - -)	FM, 322°, 41	Los Angeles
CORONADO FM	(- -)	FM, 139°, 10	San Diego
DAGGETT(San Bernardino Co.	365 (DG)(116.1)	SBRAZ-VDT,149°, 0	(4); 116.1
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
FONTANA FM	(- - - -)	FM,324°, 16.5	Riverside
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LA MESA FM	(-)	FM, 75°, 13.2	San Diego
LEBEC FM	(- -)	FM, 141°, 42	Bakersfield
LINDBERGH FLD (San Diego)	278 (126.18) (118.3)	AC	(4);126.18,118.3,131.9
LONG BEACH	233(HB)(116.1)	SBMRLZ-VDT,298°,3.9	(3);116.1
LOS ANGELES	260 (LA)	SBRAZ-DTX,244°, 3.8	(3)
MARCH FIELD (Riverside)	201 (126.18)	CA (ILS)	(3)
MIRAMAR MCAS (San Diego)	3295(142.74)	CN	(3); 142.74 (QCA)
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1
MUROC (Army)	350 (DUC)	MRL	
Muroc AAF	219 (126.18)	CA; 64°, 2.2	(3); 126.18
NEWHALL (Int.)	209 (NH)(116.1)	BMRL-VDT,317°,0.1	(4); 116.1
OCEANSIDE	326 (OC)	MHT	(4)
OCEANSIDE FM	(- - - -)	FM, 325°, 34	San Diego
PALMDALE	322 (PA)(116.1)	SBMRAZ-VDT,216°,2.5	(4); 116.1
REAM NAAS (San Ysidro)	3295(142.74)	CN	3105,142.74 (745-1630 Mon.-Fri.)
RIVERSIDE (March Fld)	388 (RV)(116.1)	SBMRAZ-VDT,128°,2.9	(4); 116.1
SAN BERNARDINO AAF	272 (126.18)	CA	(3); 126.18
SAN CLEMENTE ISLAND (Navy)	359 (NGA)	MRLZ	3105
San Clemente Island NAAS	3295(142.74)	CN, 305°, 1.6	3105;4495;142.74
SAN DIEGO (Lindbergh Fld)	224 (SQ)(116.1)	SBRAZ-VDT,139°,2.3	(3); 116.1
San Diego NAS	266 (142.74)	CN	(3);126.18,142.74
San Diego NAS (Seapl.)	2870	CN	
SAN NICOLAS ISLAND FM(Navy)	(- - - -)	FM, 275°, 59	San Clemente Island
TRONA (Int.)	323 (EW)	SBMRAZ-DT,349°,11	(4) Not manned cont.
VICTORVILLE AAF	278 (126.18)	CA	(3); 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS-COMPASS LOCATORS)			
MARCH, CALIF.	109.9		229° Mag.	IM (.19)	MM ..... (.85)	OM - - (3.99)	
					MMK		OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — CALIFORNIA

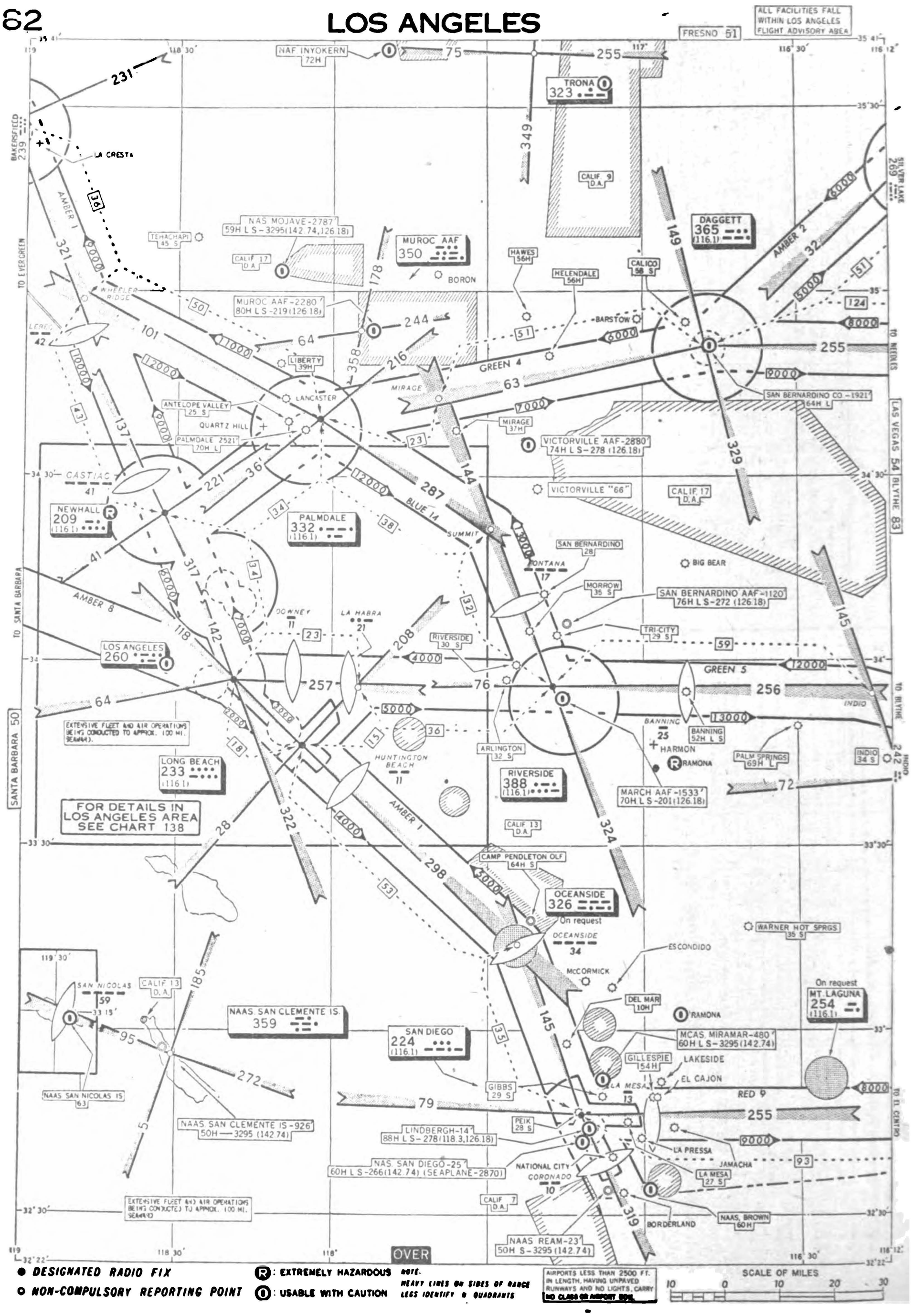
AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Antelope Valley (Lancaster)	3.4 S;hwy E	2470	25 S2	Ltd 73 oct.
Arlington (Riverside)	4.5 WSW;RR W	765	32 S6	80 oct. No sto.
Bakersfield Kern Co.#2 (Bakersfield) (NC)	6 E;RR, hwy S	660	21	
(P) Banning	1 SE;RR N	2190	52h L5 S5	80,91 oct. No sto.
Barnes (Rosamond)(NC)	12 E;rd N	2300	38	
Barstow	1.8 N;hwy S	2150	24 S6	80 oct.
Big Bear City	0.5 NW;hwy S	6850	24	
Borderland(San Ysidro)	1.5 WNW;RR W	80	19 S6	80,91 oct. Pole line SE.
Boron	0.5 NE;RR S	2550	21 S1	80 oct.Poles E. Data not verified
(N) Brown NAAS (Otay)(N)	5.5 ESE	523	60h	INACTIVE.
Buffalo Springs (Avalon)	7 NW	1560	35	On Catalina Island. PRIVATE.(NC)
Calico (Yermo)	2.3 WNW;hwy S	1921	99 S1	73 oct. Mtns N.

CALIFORNIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Camp Pendleton OLF (Oceanside)(N)	6 NNE;RR SE	75	64h L S1	NATS.
(N) Castle OLF (San Diego)	On NW end San Clemente Isl.	163	20	(NC)(N)
(N) Clark's Dry Lake OLF (San Diego)(N)(NC)	65 NE.	450	50	On W portion Dry Lake.
Del Mar	1.1 NNE	11	10h	
Escondido	1 W;RR,hwy N		19 S4	73, 91 oct.
Gibbs (San Diego)	7 NNE;hwy W	405	29 S4	87 oct.No sto. Poles E. NE.
Gillespie (Santee)	1 SSW;rd E	385	54h	Towers W.
Hawes (Victorville)	27.5 N;RR N	2319	56h	
Helendale (Victorville)	20 N	2508	56h	
(N) Inyokern NAF (N)	0.5 WNW;RR E	2455	72h	INACTIVE.
Jamacha (La Mesa)	6.8 ESE;riv N	520	24 S1	80 oct.
La Cresta(Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data not verified.
Lakeside	1.3 W;hwy S	400	20 S1	80 oct.Pole line NE,SW.
La Mesa	2 WSW;hwy N	500	27 S4	80 oct.Pole line SSE.
Lancaster	0.5 NW;RR E	2330	22 S4	73 oct.No sto.Poles E,S.
La Presa (La Mesa)	4 S;hwy W	275	19 S4	80 oct.
Liberty (Rosamond)	4.1 S;RR E	2300	39h	
(A) LINDBERGH (San Diego)	2 W	14	88h R2 L5 S6	80,91 oct. Rdo req. ARPT OF ENTRY
(A) March (Riverside)(A)	8.8 SE;RR SSW	1533	70h R3 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEARING STATION.
McCormick (San Marcos)	1.5 WSW;RR NE	530	22 S4	80,91 oct.
Mirage (Victorville)	18 WNW;rd S	2865	37h	
(N) Miramar MCAS (San Diego)	9.5 N	480	60h R1 L5 S4	91,100 oct. No bcn. (N)
(N) Miramar OLF (San Diego)	1 N Miramar	470	25	Hwy SE. (N) (NC)
(N) Mojave NAS (N)	0.7 E;hwy W	2787	59h R1 L5 S6	91,100 oct. No sto.
Morrow (Rialto)	1.8 S;RR N	1100	35 S5	80,91 oct.Pwr line W.
(A) Muroc AAF (A)	2 S;dry lk N	2280	70h R2 L5 S6	73,91,100 oct.JP-1.No sto.CLOSED.
National City	1.1 SSE;RR W	10	22 S4	80 oct.Poles,stack NW.
(P) Palmdale	3 NE;RR W	2521	70h R1 L5 S2	91,100 oct.
Peik (San Diego)	4.8 WNW	20	28 S4	80 oct.No sto.Twr SE.
Quartz Hill (Lancaster)	6.5 SW	2450	29 S1	80,91 oct.Data not verified.
Ramona	0.6 WNW;rd NE	1440	15 S1	80 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
(N) Ream NAAS (San Ysidro)	3.2 W	23	50h R1 L S4	100 oct. No sto. (N)
Riverside	2.3 WNW;riv SE	760	30 S4	80 oct.No sto.
(N) Rosedale OLF (San Diego)	6 N;RR W	400	15	(N) (NC)
Ryan (Hemet) (NC)	2.5 WSW;RR SE	1502	23	
Ryan #1 (Hemet) (NC)	4.2 NW;hwy E	1500	22	
San Bernardino	4.7 NNW;RR W	1425	28	Pole line E.
(A) San Bernardino AAF(A)	3.5 ESE;RR SW	1120	76h R1 L5 S6	62,73,91,100 oct. JP-1.
San Bernardino Co. (Daggett)	5 E;RR S	1921	64h R1 L3	
(N) San Clemente Island NAAS (N)	8 S of N end	926	50h R2	INACTIVE.
(N) San Diego NAS (N)	4.5 WSW	25	60h R1 L5 S6	91,100 oct. NAFC
(N) San Nicolas Island NAAS (N)	On E end Isl.	502	63	INACTIVE.
Tehachapi	1 N;RR S	3952	45 L S2	73,91 oct.Pole line SE.
Tri-City (San Bernardino)	3.3 SSE;RR S	1015	29 S4	91,80 oct.Poles SE, W.
(A) Victorville AAF (A)	6 NW;RR E	2880	74h R1 L5 S5	100 oct.
Warner Hot Springs	3 W;hwy NE	3140	35 S1	Ltd 80 oct. Trees E, S.
El Cajon	2.5 N;hwy W	450	23 S6	80,91 oct.No sto.
Harmon (San Jacinto)	1.4 SW	1600	23 S6	80 oct.No sto.
Victorville "66"	5.2 SSW;RR E	3225	32 S4	80 oct.No sto.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

LOS ANGELES


ALL FACILITIES FALL WITHIN LOS ANGELES FLIGHT ADVISORY AREA
FRESNO 51
NAF INYOKERN 72H
TRONA 323
CALIF 9 D.A.
DAGGETT 365 (116.1)
BAKERSFIELD 239
LA CRESTA
TEHACHAPI 45 S
NAS MOJAVE-2787' 59H L S-3295(142.74,126.18)
CALIF 17 D.A.
MUROC AAF 350
BORON
HAWES 56H
HELENDALE 56H
CALICO 58 S
SILVER LAKE 269
TO EVERGREEN
WHEELER RIDGE
MUROC AAF-2280' 80H L S-219(126.18)
LEREC 42
BARSTOW
LIBERTY 39H
LANCASTER
MIRAGE
GREEN 4
GREEN 5
SAN BERNARDINO CO.-1921' 64H L
ANTELOPE VALLEY 25 S
QUARTZ HILL
PALMDALE 2521' 70H L
MIRAGE 37H
VICTORVILLE AAF-2880' 74H L S-278 (126.18)
TO NEEDLES
LAS VEGAS 54
BLYTHE 83
CASTIAC 41
NEWHALL 209 (116.1)
PALMDALE 332 (116.1)
BLUE 14
SUMMIT
VICTORVILLE "66"
CALIF 17 D.A.
SAN BERNARDINO 28
FONTANA 17
BIG BEAR
MORROW 35 S
SAN BERNARDINO AAF-1120' 76H L S-272 (126.18)
TO SANTA BARBARA
DOWNEY 11
LA HABRA 21
RIVERSIDE 30 S
TRI-CITY 29 S
LOS ANGELES 260
EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD.
ARLINGTON 32 S
BANNING 25
BANNING 52H L S
HARMON
RAMONA
PALM SPRINGS 69H L
INDIO 34 S
INDIO 242
LONG BEACH 233 (116.1)
HUNTINGTON BEACH 11
RIVERSIDE 388 (116.1)
MARCH AAF-1533' 70H L S-201(126.18)
SANTA BARBARA 50
FOR DETAILS IN LOS ANGELES AREA SEE CHART 138
CALIF 13 D.A.
CAMP PENDLETON OLF 64H S
OCEANSIDE 326
On request
OCEANSIDE 34
WARNER HOT SPRGS 35 S
ESCONDIDO
McCORMICK
On request
MT. LAGUNA 254 (116.1)
SAN NICOLAS 59
CALIF 13 D.A.
NAAS SAN CLEMENTE IS. 359
SAN DIEGO 224 (116.1)
DEL MAR 10H
RAMONA
MCAS MIRAMAR-480' 60H L S-3295(142.74)
GILLESPIE 54H
LAKESIDE
EL CAJON
LA MESA 13
NAAS SAN NICOLAS IS 63
NAAS SAN CLEMENTE IS-926' 50H — 3295 (142.74)
GIBBS 29 S
RED 9
TO EL CENTRO
PEIK 28 S
LINDBERGH-14' 88H L S-278(118.3,126.18)
LA PRESSA
JAMACHA
NAS SAN DIEGO-25' 60H L S-266(142.74) (SEAPLANE-2870)
NATIONAL CITY
CORONADO 10
LA MESA 27 S
CALIF 7 D.A.
BORDERLAND
NAAS, BROWN 60H
NAAS REAM-23' 50H S-3295 (142.74)
EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD
OVER
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SYM.
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION
NOTE. HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 8 QUADRANTS

BLYTHE

ALL FACILITIES IN LOS ANGELES FLIGHT ADVISORY AREA

LAS VEGAS 54

TWENTY-NINE PALMS 40H

CALIF. 18 D.A.

RICE 55H

PARKER 32

AGUILA 45H

ECHEVARRIA 40H

PALM SPRINGS 69H L

DESERT CENTER 38 L S

DESERT CENTER 50H

CALIF ARIZ

GARY-392' 29H

CONNER 38

TONOPAH 34 L

INDIO 34 S

INDIO 242 (116.1)

THERMAL 50H

PORT MECCA

SHAVERS SUMMIT 60H

HARVEY

HERON 27 S

SALOME 41 L

PERRYVILLE 29

WHITE TANK

GREEN 5

SALTON SEA 40

BLYTHE 70H

BLYTHE 251 (116.1)

GILA BEND 257 (116.1)

CALIF. 4 D.A.

CALIPATRIA

BRAWLEY 30 S

O'CONNELL

LAGUNA 50H

NAS. EL CENTRO -(-43') 69H L S-317 (142.74)

IMPERIAL CO. 32 S

CALIF. 12 D.A.

RED 9

DATELAN AAF 66H

GILA BEND NO 5 37H

GILA BEND AAF-850 62H L

MARSH 40 S

YUMA 230 (116.1)

GILA BEND NO 6 37H

GILA BEND NO 4 37H

WELLTON

ARIZ. 1 D.A.

On request MT. LAGUNA 254 (116.1)

EL CENTRO 212 (116.1)

HOLTVILLE 60H L S

CALEXICO 28 S

SOMERTON 30 S

YUMA 65H

AJO AAF 64H L S

JACUMBA HOT SPRINGS OLF 25

ARIZ. MEXICO

TO SAN DIEGO

TO CASA GRANDE

LOS ANGELES 82

PHOENIX 86

PHOENIX 326

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

Ⓡ: EXTREMELY HAZARDOUS
Ⓓ: USABLE WITH CAUTION

SCALE OF MILES
25 0 25 50

GILA BEND (AAF)	257(UQ)(116.1)	SBMRAZ-VDT,166°,4	(4); 116.1
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
YUMA	230(UP)(116.1)	SBMRAZ-VDT,165°,5.8	(4); 116.1
		CALIFORNIA	
BLYTHE	251(YH)(116.1)	SBMRAZ-VDT,265°,4.1	(4); 116.1
EL CENTRO	212(MB)(116.1)	SBMRLZ-VDT	(4); 116.1
El Centro NAS	317 (142.74)	CN, 320°, 3.5	(4); 142.74 (7-18 & on 30 min. notice)
→ INDIO	242(IN)(116.1)	BMRLZ-VDT	(4); 116.1
MT. LAGUNA	254(TN)(116.1)	MHVT	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aguila	1.5 NNW	2000	45h	
(A) Ajo AAF (A)	6 N,RR NE	1434	64h L3 S4	91, 100 oct.
Conner(Quartzsite)	0.3 SSW,hwy N	850	38	150' hill S.
(A) Datelan AAF	4 W Aztec	450	66h	INACTIVE. RR S.
Echeverria (Wickenburg)	14.8 WSW,RR N	2380	40h	
(A) Gila Bend AAF (A)	4 S,hwy W	850	62h R1 L5	
(A) Gila Bend #4 (A)	18 SSW	1000	37h	INACTIVE.
(A) Gila Bend #5 (A)	15.3 SW	800	37h	INACTIVE.
(A) Gila Bend #6 (A)	7.7 WSW	800	37h	INACTIVE.
Laguna Landing Strip (Laguna)	6.5 NE	500	50h	
Marsh (Yuma)	0.7 E,RR W	130	40 S1	80 oct.
Parker	1.4 ENE;RR W	430	32 S2	No fuel. Fld rough.RR S.
Salome (NC)	0.7 S,hwy N	1876	45	15' poles NW.
Salome Int,27B, LA-PH	13.5 S	1354	41 L3	Mtns 7 mi.E,3 mi. W.
Sky Ranch (Wickenburg) (NC)	0.8 N,riv E	2000	24	Trees SSE.
Smiley (Wellton)	13 E,RR S	250	26	Poles SW, NE. (NC)
Somerton	3 ENE,RR W	250	30 S3	80 oct.No sto.
★ Tonopah Int,31, LA-PH	5 NNE Wintertersburg	1102	34 L2	
Wellton	0.5 NW,RR S	225	24 S2	73,80 oct.
Yuma	4.5 SSE,RR N	213	65h R1	Closed,emerg.use only.
(A) Blythe	7 W,hwy S	397	70h R1	
(N) Borego Hotel OLF (San Diego)(N)(NC)	65 ENE	400	25	
Brawley	1.3 NE,RR W	120	30 S6	80 oct.Poles SE,E.
Calexico	1.2 W,riv N	0	28 S6	80,91 oct.Data unver.
Calipatria	0.5 W,hwy adj S,rd E	180	49 S3	No fuel or sto.35'poles all zones.
(N) Clark's Dry Lake OLF(San Diego)	65 NE	450	50	On W portion Dry Lake. (N) (NC)
(N) Coyote Wells OLF -North (San Diego)	13 NNE	300	26	(N) (NC)
(N) Coyote Wells OLF -South(San Diego)	3 E	300	25	(N) (NC)
Desert Center	2.5 NE,rd NW	555	50h	
★ Desert Center Int, 17, LA-PH	1 ENE,hwy S, W	894	38 L3 S1	80 oct. (truck)
(N) EL CENTRO NAS	7 WNW,RR S	-43	69h R2 L5 S4	91, 100 oct. No sto. (N)
Gary (Blythe)	5 NNW,RR N	392	29h	
Harvey (Blythe)	13.5 W,hwy S	565	23 S4	73 oct.No sto.
Heron (Blythe)	1.2 E,riv E	265	27 S1	73 oct.Poles N.
Holtville	7.5 NE,canal W	58	60h	
Imperial Co. (Imperial)	1 S,hwy E	-69	32 L4 S6	80,91 oct.Poles SE.No bcn.Lgts prior req.
Indio	0.8 NNE,RR SW	-12	34 S4	80 oct.No sto.Pwrline W.
(N) Jacumba Hot Springs OLF (N)	1 E,hwy N	2900	25	
(N) Ocotillo OLF (San Diego)(N)(NC)	37 WNW of Brawley	160	30	Creek N.
O'Connell Brothers (Brawley)	0.3 S,hwy W		17 S6	80 oct.Data unver.
(N) PALM SPRINGS	2.5 E,RR NE	448	69h L5	
Port Mecca (Mecca)	1.4 WNW	180	17 S5	80 oct. RR SW.
Rice	2.2 ESE,RR N	832	55h	
Salton Sea		-152	40	NW Westmoreland.
Shavers Summit (Indio)	29.5 ESE,hwy S	1690	60h	Mtns N,S,W.
Thermal	1.8 SW,hwy W	-117	50h	
Twentynine Palms	4.8 N	1768	40h	

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COCHISE (Int.)	272(CJ)(116.1)	SBMRAZ-VDT,259°,2.3	(4); 116.1
DAVIS MONTHAN FIELD (Tucson)	396 (126.18) (118.3)	C	(3); 116.1,126.18,118.3,131.9
HILLTOP FM	(-)	FM, 79°, 34.4	Cochise
LITCHFIELD PARK NAF	290 (142.74)	CN	(3); 142.74 (0730 to sunset)
LUKE (Phoenix)(Army)	219(DRM)(118.5)	BMRLZ	(3)
Luke Field	396 (126.18)	CA, 163°, 8.2	(3); 126.18
MESA FM	(-)	FM, 243°, 18	Phoenix
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
PHOENIX (Sky Harbor Airport)	326(PH)(116.1)	SBMRAZ-VDT,261°, 2.3	(3); 116.1
RED ROCK FM	(- - - -)	FM, 307°, 42.8	Tucson
SKY HARBOR AIRPORT (Phoenix)	278(126.18)(118.5)	C	(4);116.1,140.1,126.18,118.5, 131.9
TUCSON (Davis Monthan)	338(TZ)(116.1)	SBRAZ-VDT	(3); 116.1
VAIL FM	(- -)	FM, 106°, 1.5	Tucson
WILLIAMS FIELD (Chandler)	201 (126.18)	CA	(3); 126.18
NEW MEXICO			
RODEO (Int.)	254(RH)(116.1)	BMRLZ-VDT,24°,0	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; **Z-VHF Station** Location **Marker** at Range Station.
(3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — ARIZONA

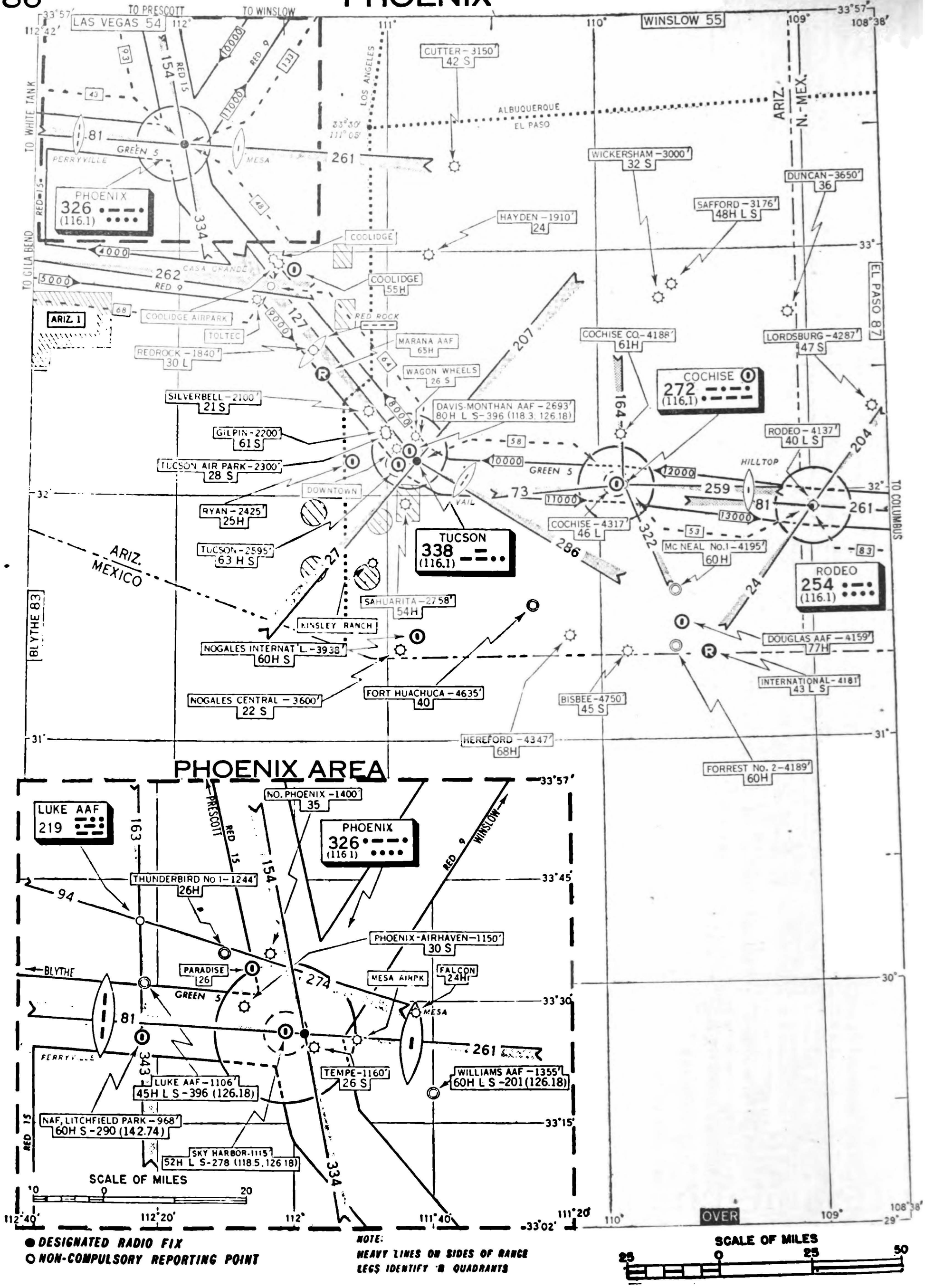
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Air-Topia (Phoenix) (NC)	6.2 SW,RR N	1050	26	
Bisbee	6.4 SSE,RR W	4750	45 L S4	80 oct. Poles W. Port. rnwy lgts prior req.
Bowie (NC)	1.9 W,RR N	3800	20	Pole line NE, W.
Clifton-Greenlee (Clifton)(NC)	8.7 SSE,hwy W	3800	35	
★ Cochise, Int, T-3, PH-EO	6 S,hwy E	4317	46 R1 L3	
(P) Cochise County (Willcox)	3.8 W,rd N	4188	61h	
Coolidge Airpark	1.7 S,RR E	1450	34	
Coolidge	6.4 SE	1587	55h	Closed, emerg. use only.
Coolidge Flying Field	1.5 WSW,RR E	1450	21 S1	80 oct. Pole line E.
Cutter (Globe)	6.8 ESE,RR N	3150	42 S4	80 oct.
(A) DAVIS-MONTHAN (Tucson)(A)	5 SE,RR SW	2693	80h R2 L5 S6	73-100 oct. JP-1.
(A) Douglas AAF (A)	8.5 NNW	4159	77h	INACTIVE. Twrs E.
Duncan	1 NE	3650	36	Poleline, race track W.
Falcon (Mesa) (NC)	7.3 NE,hwy S	1332	24h	
Florence (NC)	5 SSE,hwy E	1500	45	
(A) Forrest #2 (Douglas)(A)	6.4 WNW	4189	60h	INACTIVE.
Ft. Apache (White River)(NC)	2.6 SSW,riv S	5200	34	Trees S.
(A) Ft. Huachuca (A)	4 E,RR NW	4635	40	
Gilpin (Tucson)	4.2 NW,RR W	2200	61 L5 S6	80,91 oct. Poles E, SW.
Hayden	1.2 S,hwy E	1910	24	
Hereford	2.5 WSW,rd N	4347	68h	Twr SE.
INTERNATIONAL (Douglas)	3.3 E,hwy N	4181	43 L4 S4	80,91 oct. Fld lgts prior req. ARPT OF ENTRY.
Kinsley Ranch (Amado)	1.6 NNW,riv. E	3100	31	RR E
Litchfield (Litchfield Park)(NC)	0.5 NW,canal S	1062	23	Trees SW.
(N) Litchfield Park NAF (N)	4.8 S,riv E	968	60h R1 S1	100 oct.
(A) Luke (Phoenix)(A)	18 WNW	1106	45h R2 L5 S6	91, 100 oct. JP-1.
(A) McNeal #1 (Douglas)(A)	19 NNW	4195	60h	INACTIVE
(A) Marana AAF (A)	6 NW,hwy NE	1891	65h	CLOSED
Mesa (NC)	1.8 NNW,hwy E	1100	18	Pwrline E,W; bldgs E; canal embankment W.
Mesa Airpark	1.4 W,RR SE	1238	27 S1	80 oct. Poleline E.
Nogales Central	3 N,RR E	3600	22 S6	80 oct. No sto.

ARIZONA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Nogales International	8 NE,hwy N	3938	60h L5 S4	73,80,91 oct. All lgts prior req. ARPT OF ENTRY.
North Phoenix (Cactus)	0.5 E,hwy W	1400	35	
Paradise (Glendale)	5 ENE,canal S	1256	26 S2	No fuel. Trees S.
Phoenix Airhaven	3.9 WNW,RR W	1150	30 S6	80 oct. No sto. Poles SW,NE.
Redrock Int, 7B, PH-EO	2.3 NW,RR E	1840	30 L4	
Ryan (Tucson)	13 WSW,rd S	2425	25h	Low dike S and E corner.
Safford	4.5 ENE,riv S	3176	48h L5 S5	80 oct.
Sahuarita Flight Strip	2.2 E,hwy W	2758	54h	
Sells (NC)	2 NW,rd E	2380	30	
Silverbell (Tucson)	11.2 NW,RR E	2100	21 S1	80 oct.
SKY HARBOR (Phoenix)	2.8 ESE,RR N	1115	52h R2 L5 S6	73,80,91,100 oct.
Superior (NC)	2 WSW,hwy N	2600	15	Pole line NE.
Tempe	1.2 SW,RR E	1160	26 S6	80 oct. Poles E, trees W.
Three Point (Casa Grande)(NC)	1.5 NNW,RR SW	1400	32	
Thunderbird #1 (Phoenix)	12 NW	1244	26h	
Thunderbird #2 (Phoenix) (NC)	13 NE,rd W	1500	25	Allway: 2500 x 2000'
Toltec	0.4 NNW,RR W	1500	26	Poles SSW,SW.
(P) Tucson	7 S,RR W	2595	63h S6	80,91 oct.
Tucson Airpark	3.1 NW,RR E	2300	28 S1	Ltd 80 oct.
Wagon Wheels Ranch (Tucson)	5.5 ENE	2200	26 S6	80 oct. No sto. Poles S,SE.
Wickersham (Safford)	2.5 S,RR NE	3000	32 S6	80, 91 oct.
Willcox (NC)	0.9 WNW,hwy E	4186	36	75' trees SE, bldgs NE.
(A) Williams (Chandler) (A)	10 E	1355	60h R1 L5 S6	73, 91, 100 oct. JP-1.
NEW MEXICO				
Lordsburg	1 SE,RR N	4287	47 S1	73 oct.
★ Rodeo Int, 26A, PH-EO	7.3 NNE,RR SE	4137	40 R1 L3 S1	Ltd 73 oct.
Downtown (Tucson, Ariz.)	1 4 S,RR SW	2400	34 S2	80,91 oct. Poles N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted). → NEW OR REVISED DATA.

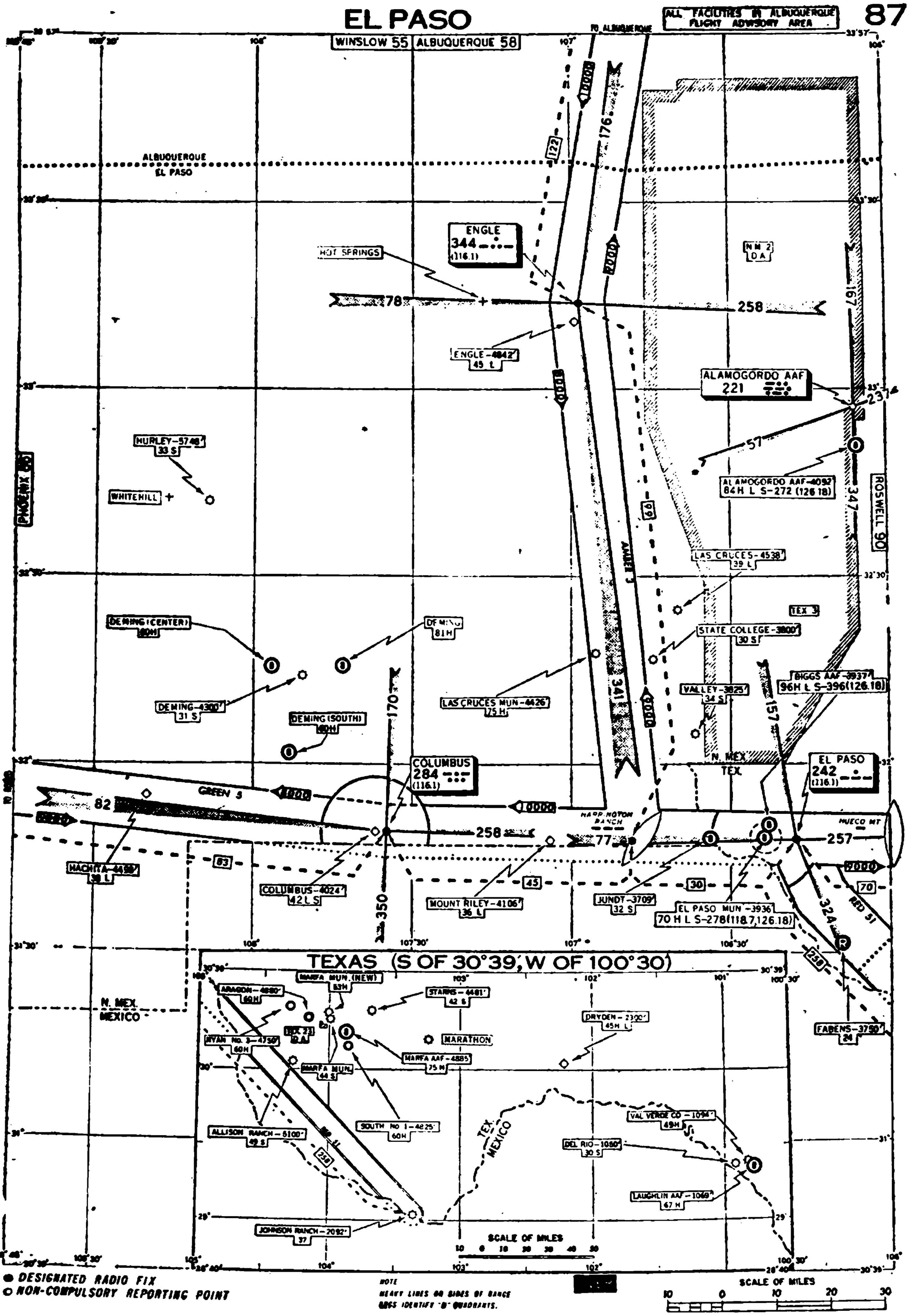
PHOENIX



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS

EL PASO


ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA
WINSLOW 55
ALBUQUERQUE 58
TO ALBUQUERQUE
ALBUQUERQUE
EL PASO
ENGLE
344
(116.1)
HOT SPRINGS
78
258
ENGLE-4842'
45 L
ALAMOGORDO AAF
221
237
57
ALAMOGORDO AAF-4092'
84H L S-272 (126.18)
347
ROSWELL 90
HURLEY-5748'
33 S
WHITEHILL
PHOENIX 60
LAS CRUCES-4538'
39 L
DEMING (CENTER)
DEMING-4300'
31 S
DEMING
81H
DEMING (SOUTH)
LAS CRUCES MUN-4426'
75 H
STATE COLLEGE-3800'
30 S
VALLEY-3825'
34 S
BIGGS AAF-3937'
96H L S-396(126.18)
157
167
COLUMBUS
284
(116.1)
EL PASO
242
(116.1)
N. MEX
TEX
GREEN 5
82
258
77
257
MUECO MT
MACHITA-4458'
39 L
COLUMBUS-4024'
42 L S
MOUNT RILEY-4106'
36 L
JUNDT-3709'
32 S
EL PASO MUN-3936'
70 H L S-278(118.7,126.18)
350
324
70
RED 51
258
TEXAS (S OF 30°39', W OF 100°30')
MARFA MUN. (NEW)
ARAGON-4880'
60H
STARNS-4481'
42 S
DRYDEN-2300'
45H L
MARATHON
FABENS-3750'
24
RYAN No. 3-4750'
60H
MARFA AAF-4885
75 H
MARFA MUN.
44 S
SOUTH No 1-4825'
60H
ALLISON RANCH-5100'
49 S
VAL VERDE CO-1094'
49H
DEL RIO-1080'
30 S
LAUGHLIN AAF-1068'
67 H
JOHNSON RANCH-2092'
37
N. MEX.
MEXICO
TEX.
MEXICO
SCALE OF MILES
10 0 10 20 30 40 50
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

EL PASO

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMOGORDO (Army)	221 (DGR)	BMRLZ	(3).4220: 126.18
Alamogordo AAF	272 (126.18)	CA(ILS): 167°,6.5	(3):126.18 (730-1930 Mon - Fri (Sat & Sun 730-1630
COLUMBUS (Int.)	284 (KS)(116.1)	SBMRAZ-VDT:262°,1.9	(4): 116.1
ENGLE (Int.)	344(EX)(116.1)	SBRAZ-VDT:176°,2.9	(4): 116.1
HARRINGTON RANCH FM	(- - -)	FM, 257°, 28.5	El Paso, Texas
TEXAS			
BIGGS FIELD (El Paso)	396 (126.18)	CA (ILS)	(3); 126.18
EL PASO	242(EO)(116.1)	SBRAZ-VDT	(3); 116.1
El Paso Mun. Airport	278 (126.18)(118.7)	AC; 257°, 4.9	(4):131.9,142.74,118.7,126.18
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ALAMOGORDO AAF, N. MEX.	109.9		155° Mag.	IM ·····(.22)	MM (1.00)	OM --(4.48)
					MKR	OMK
BIGGS, TEXAS	109.9		213° Mag.	IM (.26)	MM ····· (.85)	OM --(3.50)
					MKR	OMK

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117 5 kcs.,
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Alamogordo AAF (A)	8.5 SW; hwy S	4092	84h R3 L5 S4	73,100 oct.
★ Columbus Int,34,PH-EO	0.6 ESE; hwy N	4024	42 R1 L3 S1	73 oct.
→ Deming	2 ESE; hwy W	4314	81h	Closed,emergency use only.
" Airpark	6 WSW; RR N	4300	31 S4	73 oct. No sto.
→ " (South)	12.5 SSW	4240	60h	Cattle on fld. Closed,emergency use only.
→ " (Center)	11.5 W; hwy S	4440	60h	Closed,emergency use only.
★ Engle Int,10,EO-PU.	2.6 E; hwy S	4842	45 R1 L3	
★ Hachita Int,29B,PH-EO	0.8 W; RR N	4498	38 L3	Pole line N
Hot Springs	7.4 N; hwy E	4500	75 S4	80 oct. Rnwy data not verified.
Hurley	0.8 W; RR E	5748	33 S4	73 oct. No sto.
Jundt (Strauss)	8.8 ESE; hwy NE	3709	32 S6	73,80 oct. No sto. Trees E.
Las Cruces (NC)	1 NE; hwy N	3900	35	
" mun.	8.5 W; hwy S	4426	75h	Cattle on fld.
" 4,EO-PU	9.5 NE; hwy S	4538	39 L3	Pwr line S.Mtn E.
★ Mt. Riley Int,37,PH-EO	1.8 SE; RR N	4106	36 L2	
Silver City (NC)	11.5 SE; hwy E	5400	54	
State College (Mesilla Park)	1.2 E; RR W	3800	30 S6	73 oct. No sto.
Tularosa (NC)	2.2 N; RR W	4550	25	Use strips only.
Valley (Berino)	1 ENE; hwy W	3825	34 S1	73 oct. 50' hi-line E.
Whitehill (Silver City)	4 SSE	5800	30	Pole line N; Rnwy data not verified.
TEXAS				
Allison Ranch (Marfa)	23.4 SW; hwy E	5100	49 S1	73 oct.
(A) Aragon #5 (Marfa)(A)	9 WNW;RR,hwy N	4880	60h	INACTIVE.
(A) Biggs (El Paso)(A)	6 NE; RR W	3937	96h R3 L5 S6	73,91,100 oct. JP-1. No range.
Blair Ranch (Marathon)(NC)	23.5 SSW; hwy E	4180	24	PRIVATE.
Castolon (NC)	0.8 NNW; riv SW	2300	16	High butte 1/2 mi E.
Cox Ranch (Longfellow)(NC)	8.4 WSW; RR S	3700	48	PRIVATE.
Decker Ranch (Candelaria)(NC)	11.5 N	3650	29	PRIVATE.
Del Rio	1.5 WNW; hwy E	1000	30 S4	80 oct. No sto. Poles N; fence NW.
Dryden Airdrome (Dryden) (NC)	1 W	2159	18	
★ Dryden Int,29,EO-JI	5.7 W; hwy N	2300	45h L3	
(N) EL PASO MUN.	4.8 ENE; RR SW	3936	70h R2 L5 S1	73,91,100 oct.No sto. ARPT OF ENTRY.
→				
Johnson Ranch (Castolon)	10.7 SE; riv SW	2092	37	
(A) Laughlin (Del Rio)(A)	7 E; hwy N	1069	67h	INACTIVE.
Marathon	0.7 SE; RR N	4039	44 S1	80 oct. Cattle on fld.
(A) Marfa AAF (A)	9 ESE; RR N	4885	75h	INACTIVE.
" Mun. (new)	4 N; hwy E	4835	53h	
" Mun. (old)	2 NE; hwy,RR S	4780	44 S4	73 oct. No sto. Pole line S, SW.
Presidio (NC)	4 N; hwy W	2850	48	NOT MAINTAINED.
" Air Strip (NC)	0.8 NE; RR S	2580	21	PRIVATE.
(A) Ryan #3 (Marfa)(A)	19 WNW; RR NE	4750	60h	INACTIVE.
Sanderson Landing Strip (NC)	2 W; RR N	2900	24	PRIVATE.
(A) South #1 (Marfa)(A)	15 SE	4825	60h	INACTIVE.
Starns (Alpine)	2.1 NW; RR E	4481	42 S6	80 oct. No sto.
Terlingua (NC)	2 E; hwy SW	2700	36	
Val Verde County (Del Rio)	4.5 ENE; RR S	1094	49h	
Yoas Ranch (Longfellow)(NC)	6.5 WSW; RR N	3675	36	PRIVATE. Pole line NW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CARLSBAD	311 (DKB)	MRLW;322°, 3.5	
ROSWELL (Army)	305 (DEH)	SBMRAZ	(3);126.18
Roswell AAF	396 (126.18)	CA; 255°, 3.6	(3);126.18
TEXAS			
GUADALUPE PASS	(116.1)	VP	(4); 116.1
GUADALUPE PASS FM	(-)	FM, 79°, 17.4	Salt Flat
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso
SALT FLAT (Int.)	335(DN)(116.1)	BMRLPZ-VDT;162°,2.7	(4); 116.1

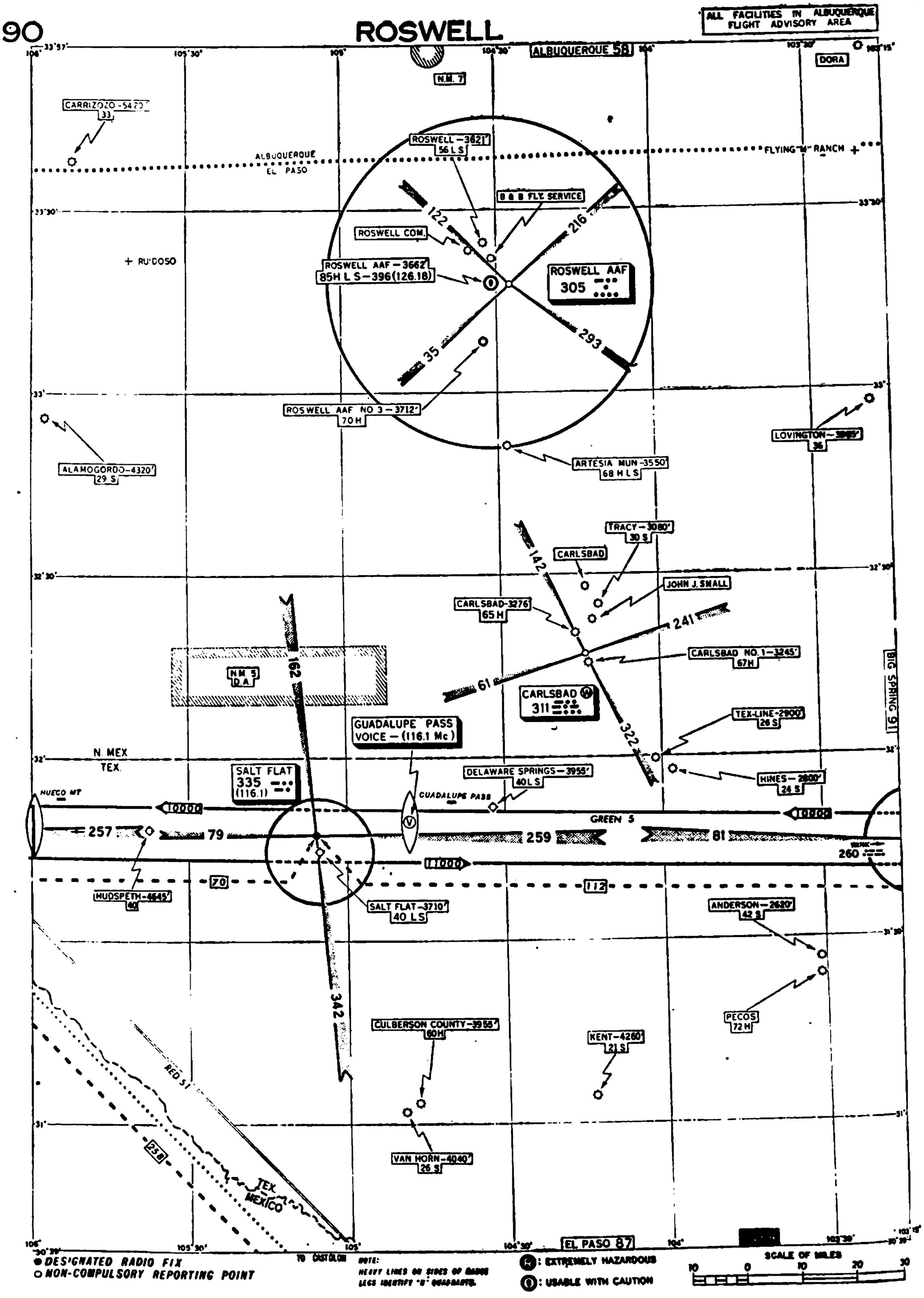
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

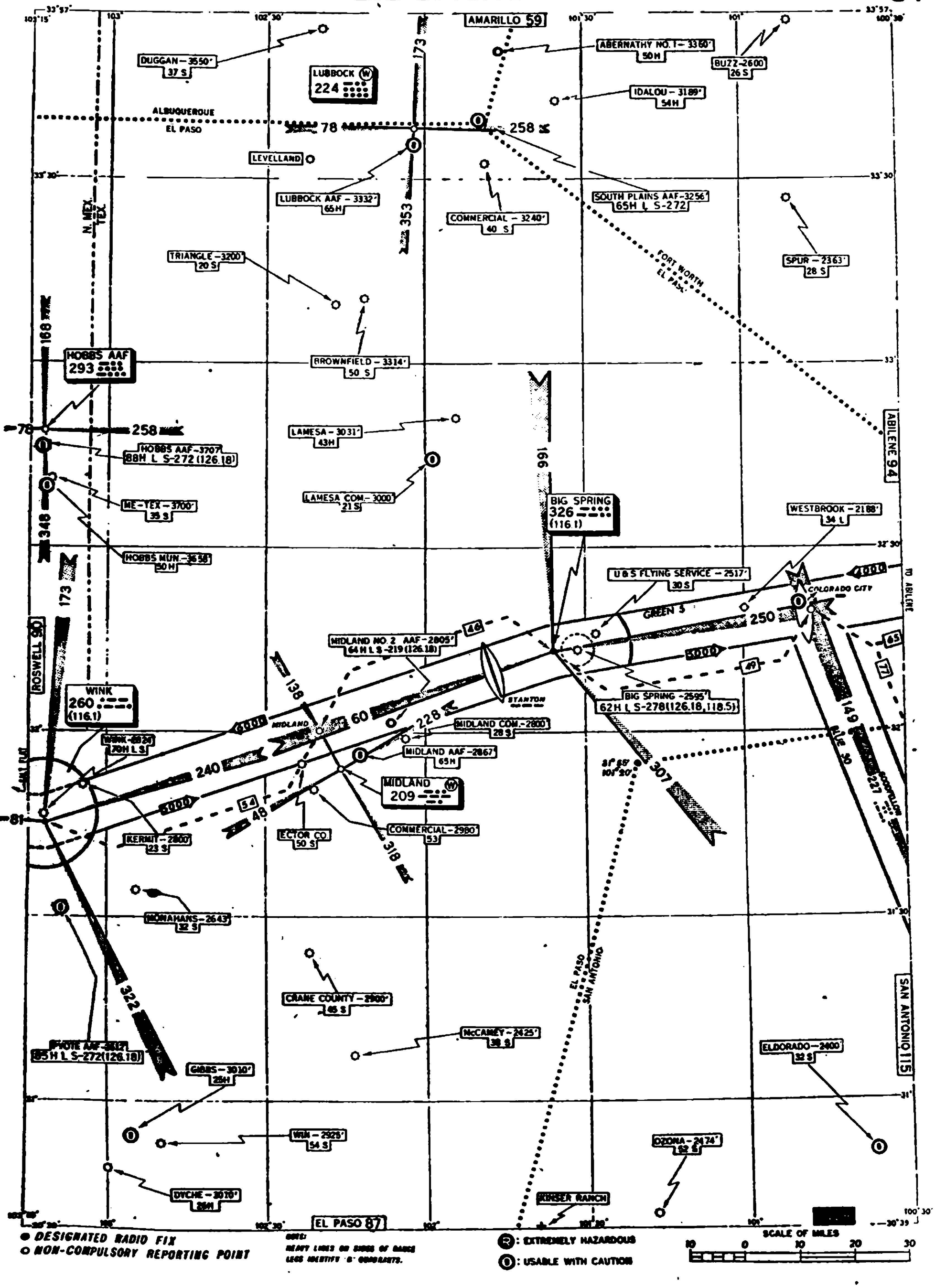
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamogordo	2.4 N;hwy W	4320	29 S1	73 oct.Pole line ESE.
(P) Artesia Mun.	4.2 W;rd S	3550	69h L5 S1	73-91 oct.
CARLSBAD,MUN.	6.1 SSW;hwy E	3276	65h	
" #1	11 S;hwy 3 W	3245	67h	
Carrizozo	0.6 N;hwy S	5420	33	
Dora (NC)	1.3 E;hwy W	4000	27 S1	73 oct. Pole line N.
Flying "M" Ranch(Milnesand)	0.4 NNW;hwy E	4360	20 S2	80 oct, Data unver.,
John J.Small (Carlsbad)	3.5 SSE;RR NE	3150	27 S1	73 oct.
Lovington	0.8 E;hwy S	3985	36	Pole line S,SE,SW.
Parker (Ruidoso)(NC)	8.2 NNE;rd N	7200	36	Cattle on fld.
ROSWELL	1.6 WNW;RR E	3611	56 L5 S6	73 oct.Fld lgts prior req.
(A) Roswell AAF (A)	6.5 S	3621	85h R2 L5 S6	91,100 oct. No sto.
(A) " AAF #3 (A)	18 S	3712	70h	INACTIVE.
Ruidoso Flying Ser.	2 N	6900	51 S2	80 oct. Data not verified.
Tracy (Carlsbad)	2 ENE;hwy S	3080	30 S6	80 oct.
B&B Flying Ser.(Roswell)	2 S;RR E	3600	32 S2	80 oct.
Carlsbad	3 N;RR E	3100	38 S2	80 oct.,
Roswell Com.	4 W;hwy N	3700	33	Windmill SW.
TEXAS				
Anderson (Pecos)	1.8 NNW;RR W	2620	42 S6	80 oct.Poles sur fld.
(P) Culberson Co. (Van Horn)	3.5 ENE;RR S	3955	60h	
★ Delaware Sprgs Int.11, EO-FV	16.8 E Pine Springs	3955	40 L3 S1	91 oct. Pole line SSE.
Fort Hancock (NC)	0.7 SE;RR N	3565	24	Pole line N.
Hines (Red Bluff Lake)	5.5 NNW;RR W	2800	24 S1	80 oct.
★ Hudspeth Int,4,EO-FV	48.5E ElPaso	4645	40 L1	
Kent	0.6 WNW;RR S	4260	21	Pole line NE,SW.PRIVATE.
Pecos	2.2 SSW;RR W	2617	72h	
★ Salt Flat Int,8A,EO-FV	80 E El Paso	3710	40 R1 L3 S1	80 oct;91 oct in emerg.
Sierra Blanca (NC)	2.8 ESE;hwy N	4450	21	Pole line N.
Tex-Line (Orla)	13.7 NNW;hwy W	2900	26 S1	Ltd 80 oct.
Van Horn	0.8 SE;RR N	4040	26 S1	80 oct. Poles NW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

ROSWELL


ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA
ALBUQUERQUE 58
DORA
N.M. 7
CARRIZOZO - 5420'
33
ALBUQUERQUE
EL PASO
ROSWELL – 3621'
56 L S
FLYING "M" RANCH
B & B FLY SERVICE
ROSWELL COM.
122
216
ROSWELL AAF – 3662'
85H L S – 396 (126.18)
ROSWELL AAF
305
293
35
RUIDOSO
ROSWELL AAF NO 3 – 3712'
70 H
ALAMOGORDO – 4320'
29 S
ARTESIA MUN – 3550'
68 H L S
LOVINGTON – 3985'
36
TRACY – 3080'
30 S
CARLSBAD
142
JOHN J. SMALL
CARLSBAD – 3276'
65 H
241
CARLSBAD NO. 1 – 3245'
67 H
N.M. 5 D.A.
162
61
CARLSBAD
311
BIG SPRING 91
TEX-LINE – 2900'
26 S
322
GUADALUPE PASS
VOICE – (116.1 Mc)
N. MEX
TEX.
SALT FLAT
335
(116.1)
DELAWARE SPRINGS – 3955'
40 L S
HINES – 2800'
24 S
HUECO MT
GUADALUPE PASS
GREEN 5
10000
257
79
259
81
260
11000
70
112
HUDSPETH – 4645'
40
SALT FLAT – 3710'
40 L S
ANDERSON – 2620'
42 S
342
PECOS
72 H
CULBERSON COUNTY – 3955'
60 H
KENT – 4260'
21 S
RED 51
258
TEX.
MEXICO
VAN HORN – 4040'
26 S
EL PASO 87
TO CASTOLON
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

BIG SPRING


AMARILLO 59
ABERNATHY NO. 1 – 3360'
50 H
BUZZ – 2600'
26 S
DUGGAN – 3550'
37 S
LUBBOCK (W)
224
IDALOU – 3189'
54 H
ALBUQUERQUE
EL PASO
78
258
LEVELLAND
LUBBOCK AAF – 3332'
65 H
COMMERCIAL – 3240'
40 S
SOUTH PLAINS AAF – 3256'
65 H L S-272
SPUR – 2363'
28 S
TRIANGLE – 3200'
20 S
FORT WORTH
EL PASO
BROWNFIELD – 3314'
50 S
HOBBS AAF
293
LAMESA – 3031'
43 H
HOBBS AAF – 3707'
88 H L S-272 (126.18)
LAMESA COM. – 3000'
21 S
ABILENE 94
BIG SPRING
326
(116.1)
WESTBROOK – 2188'
34 L
ME-TEX – 3700'
35 S
HOBBS MUN. – 3656'
50 H
U & S FLYING SERVICE – 2517'
30 S
COLORADO CITY
GREEN 5
250
MIDLAND NO. 2 AAF – 2805'
64 H L S-219 (126.18)
ROSWELL 90
WINK
260
(116.1)
STANTON
BIG SPRING – 2595'
62 H L S-278 (126.18, 118.5)
MIDLAND
60
228
MIDLAND COM. – 2800'
28 S
WINK – 4826'
70 H L S
MIDLAND AAF – 2867'
65 H
240
MIDLAND
209
KERMIT – 2800'
23 S
ECTOR CO
50 S
COMMERCIAL – 2980'
53
307
ABILENE 83
BLUE 30
ROBERTSON
227
MORAHANS – 2643'
32 S
CRANE COUNTY – 2900'
45 S
EL PASO
SAN ANTONIO
McCAMEY – 2425'
38 S
ELDORADO – 2400'
32 S
SAN ANTONIO 115
GIDDINGS – 3010'
25 H
WINK – 2925'
54 S
DYCHE – 3070'
25 H
OZONA – 2174'
52 S
KENSER RANCH
EL PASO 87
TO ABILENE
166
173
353
348
168
138
318
322
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATIVE OF BOUNDARIES.
R: EXTREMELY HAZARDOUS
(1): USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
→ HOBBS (Army)	293 (DHB)	BMRLZ	(3) (V, 7-2300)
Hobbs AAF	272 (126.18)	CA; 168°, 2.8	(3);126.18 (7-23)
TEXAS			
BIG SPRING	326(BZ)(116.1)	SBRAZ-VDT	(3); 116.1
Big Spring Arpt.	278 (126.18)	C; 70°, 3.9	(4); 126.18,131.9.Trs. & gds. 118.5 mcs.
COLORADO CITY FM	(-)	FM, 70°, 47	Big Spring
LUBBOCK (AAF)	224 (DHH)	MRLWZ; 173°,3.9	
MIDLAND	209 (DON)	MRLWZ;48°,3.8-AAF	(3); 126.18
Midland No. 2	219 (126.18)	CA	(4); 140.58
PYOTE AAF	272 (126.18)	CA	(3); 126.18
SOUTH PLAINS AAF (Lubbock)	272	CA	(3) (8-22)
STANTON FM	(- - -)	FM, 240°,12	Big Spring.
WINK	260(WP)(116.1)	SBRAZ-VDT,353°,1.2	(4); 116.1

S-Simultaneous Range and Voice W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs
(4)-3105.4495 6210.3117 5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — NEW MEXICO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Continental (Jal)(NC)	0.7 W, hwy E	3100	20	
→ (A) HOBBS AAF (A)	8 NW,RR NE	3707	88h R2 L5 S4	91,100 oct.
HOBBS MUN.	5 W,hwy N	3658	50h L5	All lgts prior req.
(P) Me-Tex (Hobbs)	4.5 W,hwy N	3700	35 S6	80,87 oct.Pole line N,W,NW.
TEXAS				
(A) Abernathy #1 (A)	5 ENE	3346	50h	INACTIVE
(P) BIG SPRING	3.3 WSW;RR N	2595	62h R2 L5 S6	80,91,100 oct.
Brownfield	5 E; hwy N	3314	50 S2	80 oct.Poleline N, NE.
Buzz (Roaring Spgs)	2.3 NNE;hwy W	2600	26 S1	73 oct.Poleline S.
Commercial (Lubbock)	3.2 SE;bet hwys	3240	40 S6	73,80 oct.No sto. Use strips.
Commercial (Odessa)	1.9 E; RR N	2980	53 S4	Poleline NE,NNE.
Crane Co.(Crane)	1 NNW;hwy E	2900	45 S1	73 oct.Hi-line S.
Duggan (Littlefield)	1.2 S;RR NE	3550	37 S4	80,91 oct.Pwrline E, NE, SE.
Dyche (Fort Stockton)	9 SW;RR E	3010	26h	Allway area: 4000 x 4000'.
Ector County (Odessa)	5 NNW;hwy W	2900	50 S2	80 oct.
Eldorado	1 W;RR E	2400	32 S1	80 oct. Poles E. Livestock on fld.
Gibbs (Fort Stockton)	2.7 NNW	3010	25h	Allway area: 4800 x 5000'.

TEXAS

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Idalou	5.5 ENE	3189	54h	
Iraan (NC)	5 NW	2300	26	
Kermit	1.3 E;RR W	2800	23 S1	80 oct.
Kinser Ranch (Ozona)	25 W;riv W	2474	24 S1	80 oct.PRIVATE. Data unverified.
Lamesa	8.9 NNE;hwy E	3031	43h	
Lamesa Commercial	1.8 WNW;hwy S	3000	21 S1	73 oct,Pole line SSE.
Levelland	2 S;hwy W	3550	25 S1	80 oct.Poleline NW, SW.
(A) Lubbock AAF (A)	9 W;RR S	3332	65h	INACTIVE.
McCamey	0.8 SW;RR N	2425	38 S6	80 oct.Hi-line SSE.
(A) Midland AAF (A)	9.5 WSW;RR S	2867	65h	INACTIVE.
Midland Commercial	1.1 SSE;RR N	2800	28 S4	80 oct.No sto.Rnwy data unverified.
(A,N) Midland #2 (A)	3 NW; rd E	2805	64h R1 L5 S4	91, 100 oct JP-1. No sto.
Monahans	1.2 SW;RR N	2643	32 S2	80 oct.Pole line SSW
Ozona	4.9 WSW;hwy N	2474	52 S1	80 oct.
(A) Pyote AAF (A)	1 SW;RR N	2612	85h R1 L5 S6	91, 100 oct. No sto.
Rita Santa (NC)	0.5 S;RR N	2800	40	Obsts sur fld.
(A) SOUTH PLAINS AAF (Lubbock)	5.5 NNE;RR W	3256	65h R1 L5 S6	73, 91, 100 oct.
Spur	2.2 S;RR N	2363	28 S4	80, 91 oct.
Triangle (Brownfld)	1.8 SSW;RR NW	3200	20 S2	73 oct.
U & S Flying Service (Big Spring)	1.5 N;hwy S	2517	30 S6	80 oct.
★ West Brook Int,32, EO-FV	1.3 S;RR N	2188	34 L3	Pole line N, S.
Win (Ft. Stockton)	3.2 E;hwy N	2925	54 S6	80 oct.
Wink	3.6 WNW;rd SE	2824	70h R1 L5 S2	80 oct.

H-hard surfaced runways R-radio facilities L-lighting facilities S-servicing (see page XIII) 'NC'-Not charted. → NEW OR REVISED DATA.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ABILENE	379(AP)(116.1)	SBRAZ-VDT	(4); 116.1
Abilene Air Term.	278 (118.7)	C; 180°, 2.3	(4); 118.7,126.18,140.1, 131.9
CLARENDON	233(CP)(116.1)	BMRL-VDT,199°,2	(4); 116.1
HARPERSVILLE (Int.)	284(HV)(116.1)	MHVT	(4); 116.1
SHEPPARD/KELL MUN.ARPT.(Wichita Falls)	201 (126.15)	CA	(4). 126.15
WICHITA FALLS (Sheppard/Kell Mun. Airport)	239(WF)(116.1)	SBMRAZ-VDT,301°, 1.9	(4); 116.1

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

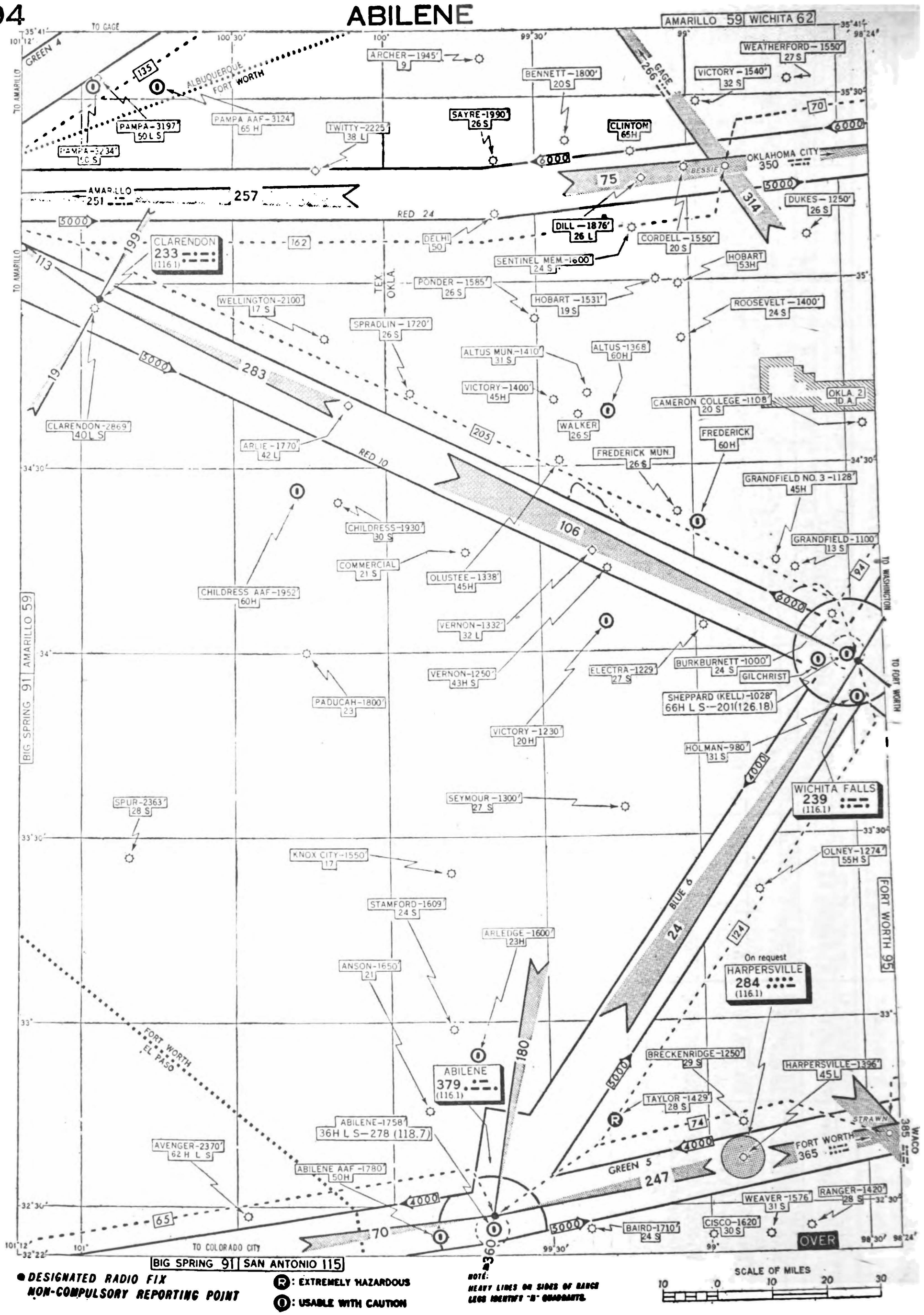
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Altus	3.4 ENE;hwy S	1368	60h	
Altus, mun.	4.2 N,RR W	1410	31 S6	73,80 oct.Polelines W
Archer (Cheyenne)	1.2 SW,hwy E	1945	9 S4	No fuel
Bennett (Elk City)	2 SSE,RR NE	1800	20 S1	73 oct.Poleline W.Lgt acft only.
Cameron College (Lawton)	2.5 W,RR N	1108	20 S4	80 oct.
Clinton	17 SW,hwy E	1932	65h	
Cordell	1.3 NW,RR E	1550	20 S1	80 oct.
Delhi	2.5 ENE,hwySW	1937	50	
★ Dill Int,14,AQ-LS	0.5 NW,hwy N	1876	26 L3	Poleline N, E.
Dukes(Carnegie)	1 NNW,riv S	1250	26 S1	80 oct.Poleline S.
Frederick,mun.	2.3 WSW,RR SE	1285	26 S6	73 oct.
Frederick	3.5 SSE	1233	60h	
Grandfield	1.2 SE,RR N	1100	13 S1	73 oct.
Grandfield #3	3.1 W,RR NE	1128	45h	
Haddock (Erick)	1.4 SW,RR N	2017	34 S1	80 oct.Poleline N,NW.
(P) Hobart	3.8 SE,RR N	1583	53h	
Hobart, mun.	1.5 SW,RR NW	1531	19 S6	73 oct.
Olustee(Altus)	10 SE,riv E	1338	45h	
Ponder (Mangum)	1.6 N,hwy S	1585	26 S2	73, 80 oct.
Roosevelt	0.5 NW,rd N	1400	24 S1	80 oct.Pwr line N.
Sayre	2.3 N,hwy W	1990	26 S4	80 oct.
Sentinel Memorial	0.8 SSW,RR W	1600	24 S1	73 oct.
Spradlin(Hollis)	1 N,hwy S	1720	26 S2	80 oct
Victory (Altus)	7.2 NW,riv E	1400	45h	
Walker (Altus)	1.6 W,RR E	1400	26 S4	80 oct.Poleline N.
Weatherford	2.7 ENE,RR S	1550	27 S2	80 oct.

TEXAS

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) ABILENE AIR TERMINAL	2.8 ESE,RR N	1758	36h R2 L5 S6	73,80,91,100 oct.
(A) Abilene AAF (A)	7 WSW,hwy N	1780	50h	INACTIVE.
Anson	0.8 ENE,RR W	1650	21	
Arledge(Stamford)	5 SE,RR SW	1600	23h	Pole line S.
★ Arlie Int,9,AQ-FV	3.8 SW,hwy SE	1770	42 L3	
(P) Avenger(Sweetwater)	3.5 W,RR S	2370	62h L5 S1	80 oct.
Baird	3.1 NNE,hwy W	1710	24 S6	73, 80 oct.
Breckenridge	2.5 S,RR E	1250	29 S6	80 oct.
Burkburnett	1 SE,RR SW	1000	24 S2	80 oct.Poles E.
Childress	3.2 ESE,RR NE	1930	30 S4	73,80 oct.Poleline sur. field.
(A) Childress AAF(A)	5.2 W,RR N	1952	60h	INACTIVE.
Cisco	2.5 NNW,lake 2 N	1620	30 S6	80 oct.
Clarendon 4,AQ-FV	3.8 W,RR NE	2869	40 R1 L3 S6	80, 91 oct.
Commercial(Quanah)	1.8 S,hwy E,N	1568	21 S2	Ltd 80 oct.
Electra	3.6 WNW,RR S	1229	27 S2	80 oct.
Gilchrist (Wichita Falls)	7 WNW,RR S	1020	30 S1	80 oct.Pwrline S.
★ Harpersville Int,44, EO-FV	9.2 S of Breckenridge	1396	45 R1 L3	
Holman (Wichita Falls)	3.1 SSE,hwy W	980	31 L S6	80,91 oct.Poles SE, E, NE.
Knox City	0.8 SSE,RR W	1550	17	
(P) Olney	4 WSW,rd S,N	1274	55h S4	80, 91 oct.
Paducah	2.5 ESE,RR NW	1800	23	
Pampa	1 NNE,RR S	3234	50 S6	80,91 oct.Poleline S.
(A) Pampa AAF (A)	12.3 E	3124	65h	INACTIVE.
★ Pampa Int,4,AQ-KC	1.9 NE,RR S	3197	50 L3 S1	80, 91 oct.
Ranger	1.5 SSW,RR W	1420	28 S6	80 oct.Poleline NE.
Seymour	1.3 SE,riv SW	1300	27 S1	80 oct.
(A) SHEPPARD/KELL MUN.(Wichita Falls)	5.8 N,hwy W	1028	66h R2 L5 S6	80, 91 oct.
Spur	2.2 S,RR N	2363	28 S4	80, 91 oct.
Stamford	2.5 N,hwy E	1609	24 S2	80 oct.
Taylor (Albany)	1 N,RR SW	1429	28 S2	80 oct.
★ Twitty Int,8A,AQ-LS	1 SE,hwy W	2225	38 L3	
Vernon	5 N,hwy E	1250	43h S6	73, 80 oct.No sto.
★ Vernon Int,15,AQ-FV	8.8 NNW,hwy E	1332	32 L3	
Victory (Vernon)	5.9 SSW,hwy E	1230	20h S2	No fuel.
Weaver (Eastland)	1 NE,RR S	1576	31 S6	80 oct.
Wellington	1 SE,hwy W	2100	17 S1	80 oct.Pole line S.

h-hard surfaced runways. R-radio facilities. **L-lighting** facilities. **S-servicing.** (See page XIII) NC (not charted). → NEW OR REVISED DATA.

ABILENE



● DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

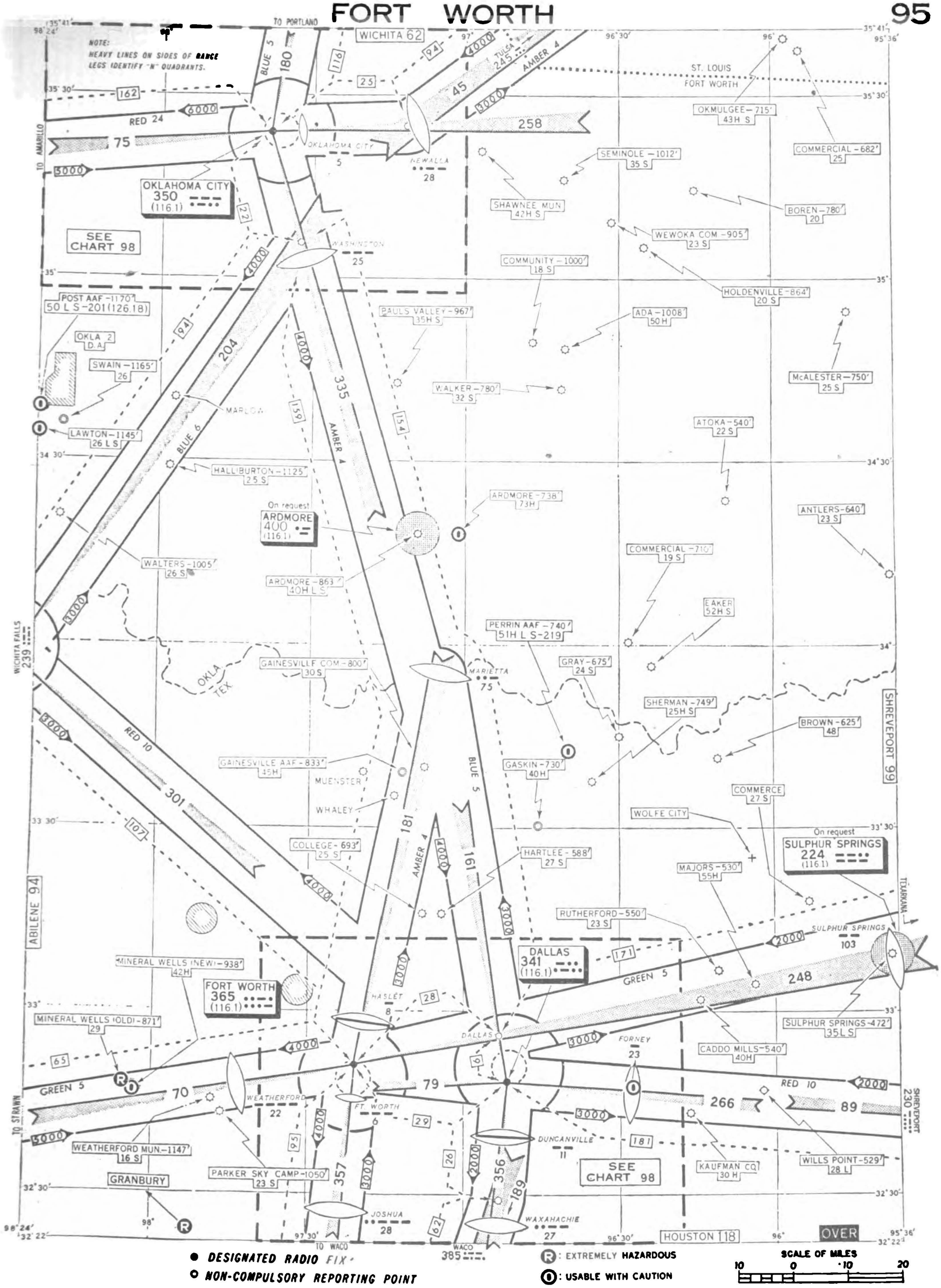
R: EXTREMELY HAZARDOUS

O: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "B" BOUNDARIES.

SCALE OF MILES
10 0 10 20 30

FORT WORTH 95



RADIO — OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARDMORE	400 (AT)(116.1)	MHVT	(4); 116.1
MARIETTA FM	(. . -)	FM, 1°, 75	Fort Worth, Texas
NEWALLA FM	(. . - -)	FM, 78°, 27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350 (OL)(116.1)	SBRAZ-VDT,78°,1.6	(3); 116.1
OKLAHOMA CITY LFM	(- -)	LFM, 78°, 5.4	Oklahoma City
POST FIELD (Lawton)	201 (126.18)	CA	(3); 126.18 (7-17 Mon.-Fri.)
WASHINGTON FM	(- - -)	FM, 155°, 24.6	Oklahoma City

TEXAS

DALLAS (Love)	341 (DL)(116.1)	SBMRAZ-VDT,356°2.5	(3); 116.1
DUNCANVILLE FM	(- -)	FM, 176°, 10.5	Dallas
FORNEY FM	(-)	FM, 86°, 23	Dallas
FORT WORTH (Meacham Fld)	365 (FV)(116.1)	SBRAZ-VDTX,176°,2.3	(3); 116.1
FORT WORTH LFM	(- - -)	LFM, 177°, 6.2	Fort Worth
HASLET FM	(-)	FM, 1°, 8.1	Fort Worth
JOSHUA FM	(. . - - -)	FM, 177°, 27.7	Fort Worth
PERRIN FIELD (Sherman)	219	CA	(3)
SULPHUR SPRINGS (Int.)	224 (ZP)(116.1)	MHVT	(4); 116.1
SULPHUR SPRINGS FM	(- -)	FM, 68°, 103	Fort Worth
WAXAHACHIE FM	(. . - -)	FM, 176°, 27	Dallas
WEATHERFORD FM	(- - - -)	FM, 250°, 22	Fort Worth

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Ada	2 N, RR SW	1008	50h	
Antlers	2.8 S,RR E	640	23 S2	80 oct.
Ardmore	11.2 NNE,riv E	738	73h	CAUTION: Intensive airline training.
Ardmore 10, FV-WD	9.2 N,hwy E	863	40h R1 L3 S6	80, 91 oct. Poles E.
Atoka	1.8 NW,RR S	540	22 S2	73 oct. Pole line S.
Boren (Wetumka)	1.5 NW,hwy S	780	20	
Commercial (Durant)	5.2 W,RR N	710	19 S2	73 oct. Rnwy data unverified.
Commercial (Okmulgee)	3.4 E,RR N	682	25 S2	Ltd 73 oct. Poles SW.
Community (Ada)	6.8 WNW,RR NE	1000	18 S6	80 oct.
(P) Eaker (Durant)	3.2 SSW,RR NW	703	52h L5 S1	80, 91 oct. All lgts prior req.
Halliburton (Duncan)	1 S, RR E	1125	25 L S4	80,88 oct. Range lgts.
Holdenville	1.2 WNW,RR NE	864	20 S2	73 oct. Pole line N.
Lawton	1.5 S,RR E	1145	26 L2 S4	73 oct.Fld lgts prior req. Poles NW.
Marlow	1.8 N,RR E	1150	15	Pole line S.
McAlester	2 SSE,RR W	750	25 S6	80 oct.
(P) Okmulgee	3 NNE,hwy W	715	43h L5 S6	73,80 oct. Ctc lgts prior request.
(P) Pauls Valley	2.1 S,RR E	967	35h L1 S1	80 oct.
(A) Post (Lawton)(A)	3 N	1170	50 R1 L4 S4	73 oct.; ltd 100 oct.
Seminole	3.4 NNW,hwy E	1012	35 S2	80 oct. Trees W, NW.
(P) Shawnee	2 NW,RR E	1080	42h L5 S2	80, 91 oct. Fld lgts prior req.
(A) Swain (Lawton)(A)	3.5 E,hwy N	1165	26	
Tishomingo (NC)	7.5 N	890	29	
Walker (Ada)	5.4 S,hwy W	860	32 S6	73, 80 oct. Trees sur fld.
Walters	1.2 SW,RR E	1005	26 S2	73 oct. Cattle on field.
Wewoka, com.	1.8 W,lake N	905	23 S6	80 oct. Pole line NNE.
Wewoka, mun. (NC)	4.7 NE,hwy N	790	30	

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bowie (NC)	2.8 NW,bet RRs	1050	19	Cattle on fld. Trees N.
Brown (Bonham)	8 N,hwy W	625	48	Pole line S, W.
Caddo Mills(Greenv'l)	10.7 SW,hwy W	540	40h	
College (Denton)	4.2 N	693	25 S6	73 oct. Cattle on field.
Commerce	3.4 NNE,hwy SE	548	27 S6	80, 91 oct.
(A) Gainesville AAF (A)	3.8 WNW,RR S	833	45h	
Gainesville com.	3 NNE,hwy W	800	30 L1 S1	80 oct. Poles S.
(A) Gaskin (Sherman)(A)	12.6 SW,rd E	730	40h L	B-2, flood lgts.
Gray (Denison)	2.5 E,RR N	675	24 L S6	80 oct. Emerg.lgts by circling fld.
Hartlee (Denton)	5.4 NE,RR SSE	588	27 S6	73,80 oct. Poles S
Jones (Bonham)(NC)	2 NNE,hwy E	616	18h	
Majors (Greenville)	5 SSE,RR W	530	55h	
(P) Mineral Wells, new	3.2 SE,RR N	938	42h	
Muenster	2.6 E,RR S	1010	26 S1	80 oct. Pole line S.
Parker Sky Camp (Weatherford)	3.4 SSE,RR NW	1050	23 S4	80 oct.
(A) Perrin (Sherman)(A)	6.4 NNW,RR N	740	51h R1 L5 S6	73, 91, 100 oct.
Rutherford (Greenv'l)	4.5 WSW,hwy SE	550	23 S3	73 oct. Pole line S.
Sherman	1.4 SE,hwy N	749	25h S6	80 oct.
So. Sulphur (Greenv'l)	9.5 NNE	550	30	(NC)
Sulphur Springs, 7B, DL-LV	1.9 NW,RR S	472	35 R1 L3 S1	80 oct. Pole line S,SE.
Kaufman County (Terrell)	1.5 SE,RR W	490	30h	
Weatherford, mun.	1 W, hwy N	1147	16 S4	80 oct.
Whaley Arpk(Gainesv'l)	5.7 WSW,RR N	820	20 S2	80 oct. Pole line N.
* Wills Point Int,7,FV-AG	5.9 NW	529	28 L3	
Wolfe City	2 N		20 S1	80 oct. Data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
NEVALLA FM	(. . - -)	FM,78°,27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350(OL)(116.1)	SBRAZ-VDT,78°,1.6	(3): 116.1
OKLAHOMA CITY LFM	(- -)	LFM,78°,5.4	Oklahoma City
TINKER, OKLAHOMA CITY (Army)	221 (DTE)	BMRAZ	4495
Tinker Field	396 (126.18)	CA;170°,5.3	(3): 126.18
WILL ROGERS FIELD (Oklahoma City)	272 (126.18)	C	(4): 126.18,131.9
WASHINGTON FM	(- - -)	FM,155°,24.6	Oklahoma City

TEXAS

DALLAS (Love Field)	341(DL)(116.1)	SBMRAZ-VDT,356°,2.5	(3): 116.1
DUNCANVILLE	404 (D)	FMK,176°,10.5	Dallas
DUNCANVILLE FM	(- -)	FM,176°,10.5	Dallas
FORNEY FM	(-)	FM,86°,23	Dallas
FORT WORTH (Meacham Field)	365(FV)(116.1)	SBRAZ-VDTX,177°,2.3	(3): 116.1
Fort Worth AAF	201 (126.18)	CA	(3): 126.18
FORT WORTH LFM	(- - -)	LFM,177°,6.2	Fort Worth
HASLET FM	(-)	FM,1°,8.1	Fort Worth
HASLET	371 (F)	FMK,1°,8.1	Fort Worth
HENSLEY FIELD (Dallas)	396 (126.18)	CA	(4): 126.18
JOSHUA FM	(. . - - -)	FM,177°,27.1	Fort Worth
LOVE FIELD (Dallas)	278 (126.18) (118.9)	AC (ILS)	(4): 118.9,131.9,126.18
MEACHAM FIELD (Fort Worth)	272 (126.18) (118.7)	AC	(4): 142.74,131.9,126.18,118.7
WAXAHACHIE FM	(. . - -)	FM,176°,27	Dallas

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOVE, TEXAS	110.3		140° Mag.	IM	MM ·--- (.70)	OM -- (4.35)
			360° Mag.		MMK 311 ···· (.75)	OMK
MEACHAM, TEXAS			173° Mag.	IM	MM	OM
					MMK 356 ···-(.70)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anadarko	1.5 SW;RR E	1260	20 S1	80 oct.
Bethany (Oklahoma City)	8WNW	1300	44h S6	80,91 oct.Pwr line S.
Bomhoff (Calumet)	4.1 SSE;hwy S	1448	25 S4	73,80,91 oct.
Caddo Flying Ser.(Ft.Cobb)	6 SE;hwy S	1250	16 S2	80 oct.
Chickasha	4 WNW;riv S	1140	37 L S4	80,91 oct.Flood,obst lgts.
Cimarron (Yukon)	4 WSW;hwy N	1350	20h	
El Reno	1.5 SW;RR N	1400	26 S6	80 oct.
Geary	1.4 E;RR N	1300	21 S2	73 oct.
Garthoeffner Co. Club (Oklahoma City)	7.3 S;hwy E	1270	19h S6	80 oct.
Lake View (Yukon)(NC)	2.7 E;RR N	1275	24	PRIVATE.Poles N,S.
Lowell (Chickasha)	2 SSE;RR E	1275	22 S2	80 oct.Pole line W.
Max Westheimer (Norman)	2.7 NW;RR E	1178	50h S2	80,91 oct.
Mustang (El Reno)	5.3 SSW	1400	52	
Nuckols (Oklahoma City)	7.2 SSW;hwy W	1265	30 S6	80 oct.Poles N,W,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

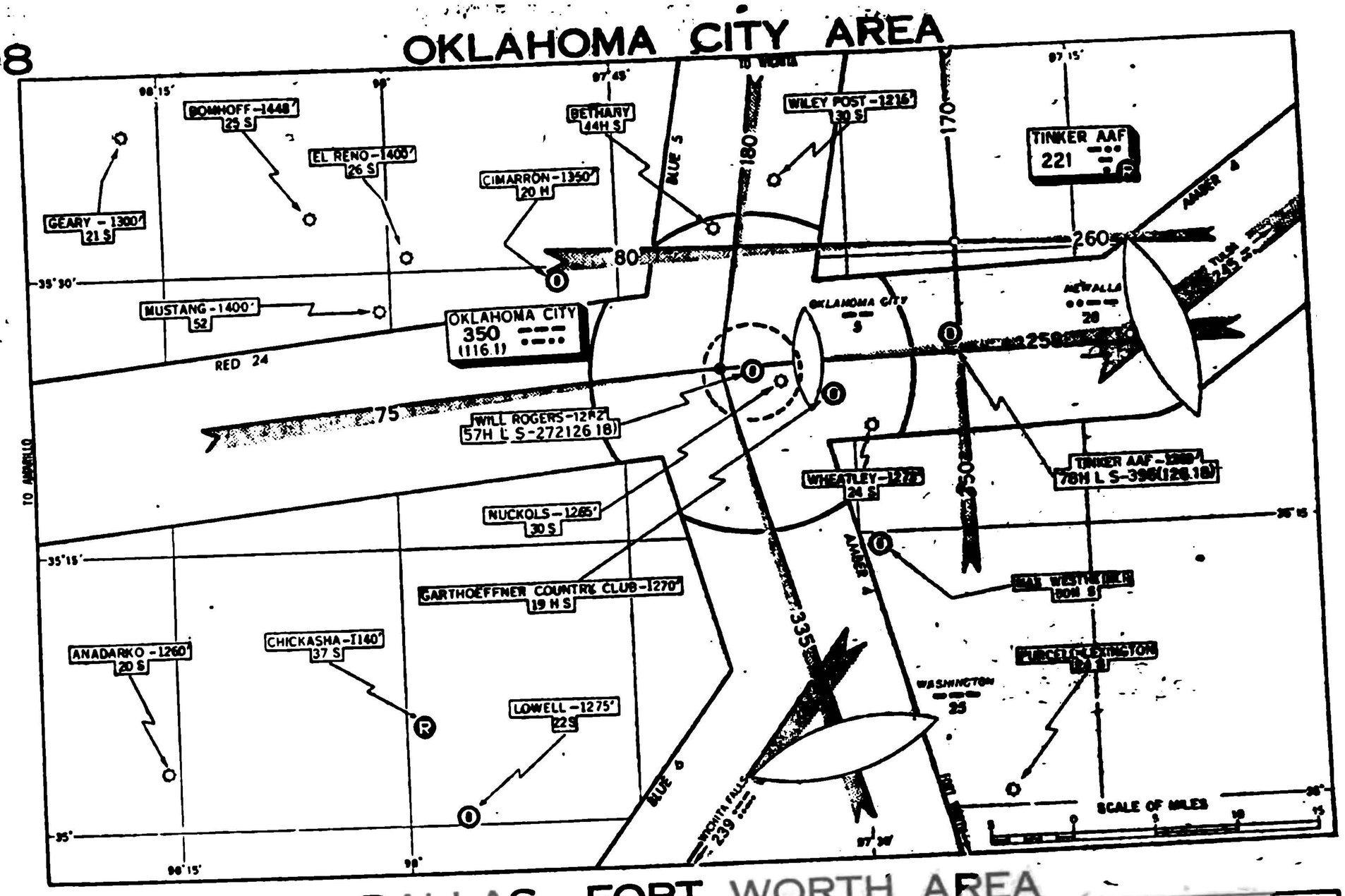
OKLAHOMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Purcell-Lexington (Lexington)	0.8 WSW;riv W	1100	24 S2	80 oct.Trees S,SSW,SSE.
(A,N) Tinker (Oklahoma City)	8.5 SE;RR NE	1269	78h R2 L5 S6	62,91,100 oct.JP-1.NAFC. (A)
Wheatley Airpark (Moore)	0.6 NE;hwy W	1273	24 S6	73 oct.
Wiley Post (Oklahoma City)	7.9 NNW;hwy E	1216	30 S6	80,91 oct.Trees S.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.

TEXAS

(N) Arlington-Midway	6.8 NNE;RR S	568	41h L5	Poles S.
(N) OLF (N)	4 SSW;rd W	695	13h	
Clearview (Dallas)	5.1 SSW;RR N	619	30h S6	80,91 oct.
Cleburne Northwest	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(N) Eagle Mtn Lake MCAS (Newark) (N)	1 SSE;RR NE	745	60h	INACTIVE.
Ellis Co. (Waxahachie)	3.5 NE;RR S	585	31 S2	73 oct.Pole line S.
Fliers (Dallas)	6.2 WSW;RR W	580	17 S4	80 oct.No sto.Trees S.
(A) Fort Worth AAF (A)	6.8 WNW;lake N	636	73h R1 L5 S6	73,91,100 oct.JP-1.
(N) Grand Prairie OLF (N)	1 WSW;RR N	529	30h L5 S4	73 oct.No bcn.
Handley	0.6 NE;RR S	630	26 S6	73 oct.
(A,N) Hensley (Dallas)(A)(N)	11 WSW;hwy N	495	52h R1 L5 S4	73,91,100 oct.
Hicks (Fort Worth)	12.5 NNW;1k W	820	27	
Hudson (Dallas)	9.6 NE;RR SE	500	17h S6	80,91 oct.Pole line W.
Lou Foote (Dallas)	8.8 S;hwy E	665	35 S6	73,80,91 oct. Bldgs N,NE.
LOVE (Dallas)	5 NNW;RR SW	483	52h R3 L6 S6	73-100 oct. Poles S.
Luscombe (Garland)	2.2 WSW;RR N	610	50 S5	80 oct.No storage.
McKinney	2.1 S;hwy W	616	23 S2	80 oct.Poles E,W.
(P) MEACHAM (Fort Worth)	5.5 NNW;hwy NE	692	42h R2 L6 S6	73,80,91,100 oct.
Midwest (Fort Worth)	5.3 ESE;RR NNE	650	21 S4	80,91 oct,Pole line W,S.
Mustang (Dallas)	6 NNE;hwy NE	604	32 S6	80,91 oct.
(N) Russell (Fort Worth)	7 SSE;RRs E,W	680	31 S6	80,91 oct.
Second Avenue (Dallas)	7 SE;RR N	530	26 S1	73,80 oct.Use strips.Poles S.
Skyline (Dallas)	3.2 SSE;riv E	430	26 S6	80,91 oct. Trees NW.
T. C. U. (Fort Worth)	6.6 SW;RR S	710	24 S6	80,91 oct.
Victory (Dallas)	4.6 S;hwy W	500	23 S6	73,80 oct.No sto.Pole line E.
Wallace (Terrell)	2 W;RR S	500	19 S2	80 oct.
Wallace #2 (Kaufman)	4 W;hwy N	490	13	
Waxahachie	1.5 SSW;hwys E	558	16 S1	73 oct.
White Rock (Dallas)	6.7 ENE;RR NW	543	29 S6	91 oct.
Sky Ranch (Arlington)	3 SW; RR N	590	25 S2	80 oct.
→ Saginaw	0.5 WNW;RR E	790	26 S6	80,91 oct.

OKLAHOMA CITY AREA

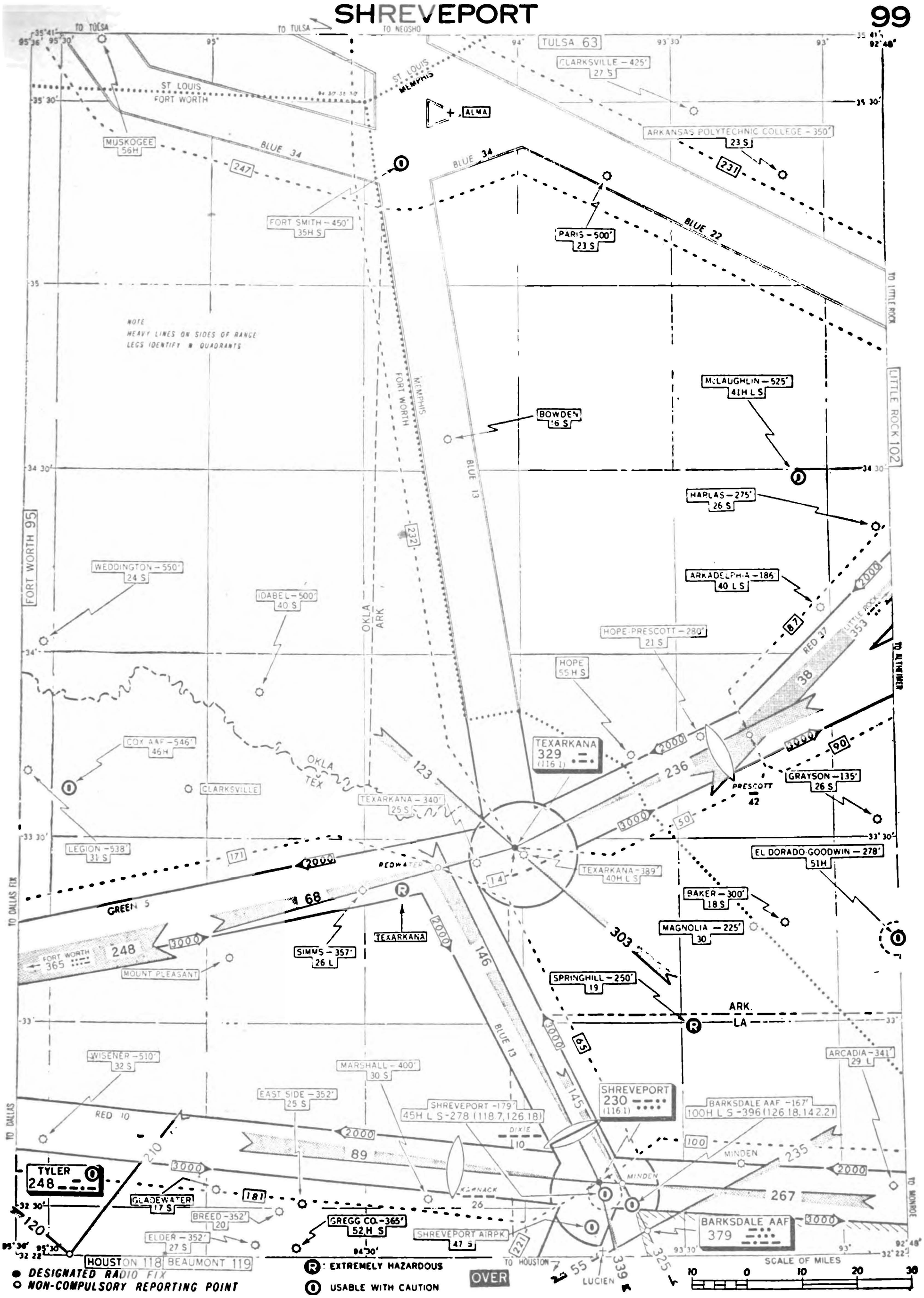


DALLAS - FORT WORTH AREA

●DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

SHREVEPORT



OVER

SHREVEPORT

RADIO — ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT FM	(-)	FM, 56°, 42	Texarkana
TEXARKANA	329 (TR)(116.1)	SBRAZ-VDT, 123°, 2	(4); 116.1
		LOUISIANA	
BARKSDALE (Shreveport) (Army)	379 (DBY)	SBMRAZ	(3)
Barksdale Field	396 (126.18,142.2)	CA (TLS):325°, 4.4	(3); 126.18,142.2
DIXIE FM	(- - - -)	FM, 326°,10.2	Shreveport
SHREVEPORT	230 (ZH)(116.1)	SBRAZ-VDT	(3); 116.1
Shreveport Airport	278 (126.18)(118.7)	AC; 146°, 1.8	(4); 142.74, 131.9, 118.7, 126.18
		TEXAS	
KARNAK FM	(- - -)	FM, 269°,26	Shreveoort, La.
TYLER (Pounds)	248 (TQ)	BMBLZ-DT, 120°,1.4	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs., Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (FELIS COMPASS LOCATORS)		
BARKSDALE, LA.	110.3	335	323° Mag.	IM (.07)	MM (1.00)	OM (4.39)
					MMK	OMK
BARKSDALE, LA.	109.9		143° Mag.	IBK (.25)	SBI ..... (.64)	OM -- (4.35)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.,
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — ARKANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arkadelphia, 24, DL-LV	1.5 ENE; RR N	186	40 L3 S6	80 oct. Pole line N, NW.
Arkansas Polytechnic (Russellville)	1.3 N; hwy W	350	23 S6	73 oct. Pole line SE.
Baker (Magnolia)	4.3 E; hwy S	300	18 S6	80, 91 oct. Pole line SW.
Bowden (Mena)	1 E; RR NW	1177	16 S1	73 oct.
Clarksville	2.5 E; hwy S	425	27 S1	80 oct. Pole line WSW.
(P) El Dorado-Goodwin (El Dorado)	8.6 W; hwy S	278	51h	
FORT SMITH	4 SSE; RR S	450	35h L3 S6	80 oct. 150' stacks W.
Grayson (Camden)	3.4 SW; RR S	135	26 S6	80, 91 oct. No sto.
Greig (Van Buren) (NC)	4.1 E; RR 1.5 N	450	13	
Harlas (Malvern)	2.1 WSW; RR SE	275	26 S1	73 oct. Power line NE.
Hope	5 NNW; RR E	359	55h L3 S6	80,91 oct.Lgts prior req.Use rnwys.
Hope Prescott (Prescott)	3 SW; RR E	280	21 S6	80 oct.
(P) McLaughlin (Hot Springs)	3 SW; RR N	525	41h L5 S6	80 oct. Bldg. twr N.All lgts prior req.Avail army
Magnolia	1.6 WSW; RR E	225	30	10' bldg SSW. 0800-1600 week days only.
Norman (Ola) (NC)	1.8 NNE; hwy E	348	28	Pole line E.
Paris	1.8 NE; RR 1 S	500	23 S1	73 oct. Pole lines W, E, SW.
TEXARKANA	4 NE; RR W	389	40h R1 L5 S6	80, 91, 100 oct.
Alma	1.5 SE		22 S2	80 oct.Data not verified.
		LOUISIANA		
★ Arcadia Int, 26 FV-AO	4.5 E; RR S	341	29 L3 S2	No fuel. Pole line SW.
(A) Barksdale (Shreveport)(A)	5.8 E; riv W	167	100hR3 L5 S4	73, 91, 100 oct. JP-1.
Cross Lake (Shreveport)	7 WNW; RR NE	210	40	CAUTION, Data not verified.
Lucien (Shreveport)	7 S	205	31 S4	80 oct. Data not verified.
→ Minden	1.5 W;RR S	200	26 S4	80 oct. Trees sur fld,
Northeast Aviation (Bastrop)	2 WSW	90	17 S4	80 oct. No sto. Data not verified.
(P) SHREVEPORT	2.5 NNE; riv E	179	45h R2 L5 S6	73 80 oct.
Shreveport Airpark	4.5 SSW; bet RRs	300	47 S6	80 91 oct. Pole line SE.
		OKLAHOMA		
Heavener (NC)	2 N; hwy W	575	27	
Idabel	1.3 NW; RR E	500	40 S2	80 oct.
(P) Muskogee	5.5 S; RR W	610	56h	Hill SW.
Nashoba (NC)	0.8 SE; riv S	625	13	PRIVATE.
Poteau (NC)	1.5 SSW; hwy W	460	15	
Weddington (Hugo)	1.9 NW; hwy SW	550	24 S1	80 oct. Pole line E.
		TEXAS		
Breed (Longview)	2 W; RR N	352	20	Pole line around fld.
(A) Cox AAP (Paris)(A)	6.5 ESE; RR N	446	46h	INACTIVE.
East Side (Longview)	2.4 NE; RR S	352	25 S6	80, 91 oct. Pole line S.
Elder (Kilgore)	2.5 NE; RR E	352	27 S6	80, 87, 91 oct. Pole line W.
Gladewater	2 WNW; RR S	550	17 S6	73 oct. No sto. Pole line N, S.
(P) Gregg County (Longview)	7.2 S; riv N	365	52h S1	80, 91 oct.
Holmes (Gilmer)(NC)	4 N; RR W	370	23	Pole line W. Cattle on fld.
Legion (Paris)	1.9 NW; RR E	538	31 S6	80 oct. Pole line E.
Marshall	3.9 SE; hwy N	400	30 S6	73 oct. Pole line N.
★ Simms Int, 14, DL-LV	1 NE; hwy E	357	26 L3	Pole line E, S.
Texarkana	6 W; RR N	340	25 L S6	80, 91 oct,
Wisener (Mineola)	1.5 NW; hwy S	510	32 S2	73 oct.
Clarksville	2.8 NNW;RR SW	460	20 S6	73,80 oct.
Mt Pleasant	2.8 ENE;RR S	393	20 S1	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — ARKANSAS

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADAMS FIELD (Little Rock)	278 (126.18)(118.5)	C	(4); 126.18, 118.5, 131.9, 142.74
BRUINS FM	(- - - -)	FM, 240°, 24	Memphis, Tenn.
LITTLE ROCK (Adams Field)	353 (LI)(116.1)	SBRAZ-VDT, 315°, 3.9	(3); 116.1
STUTTGART	269 (DSA)	MRLWZ, 173°, 4.7	
LOUISIANA			
MONROE (Selman)	359 (UO)(116.1)	SBMRLZ-VDT, 25°, 2.6	(4); 116.1
MISSISSIPPI			
FLORA FM	(-)	FM, 356°, 13	Jackson
GREENWOOD	281(GD)(116.1)	BMLZ-VDT, 265°, 1.9	(4):116.1
JACKSON	260 (JA)(116.1)	SBRAZ-VDT, 173°, 2.4	(3); 116.1
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
VICKSBURG	382 (VS)(116.1)	MRVT	(4); 116.1
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis.

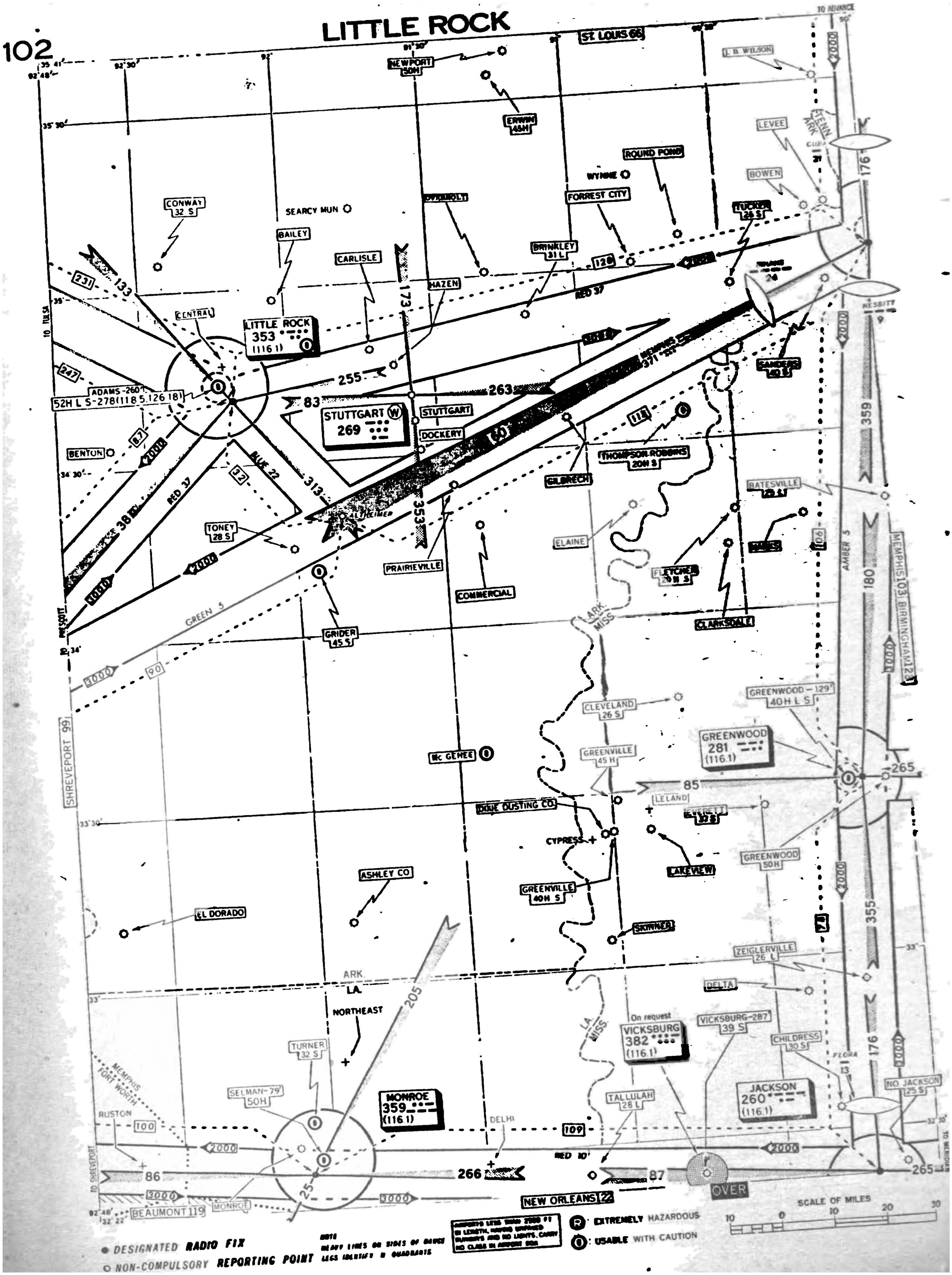
S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARKANSAS

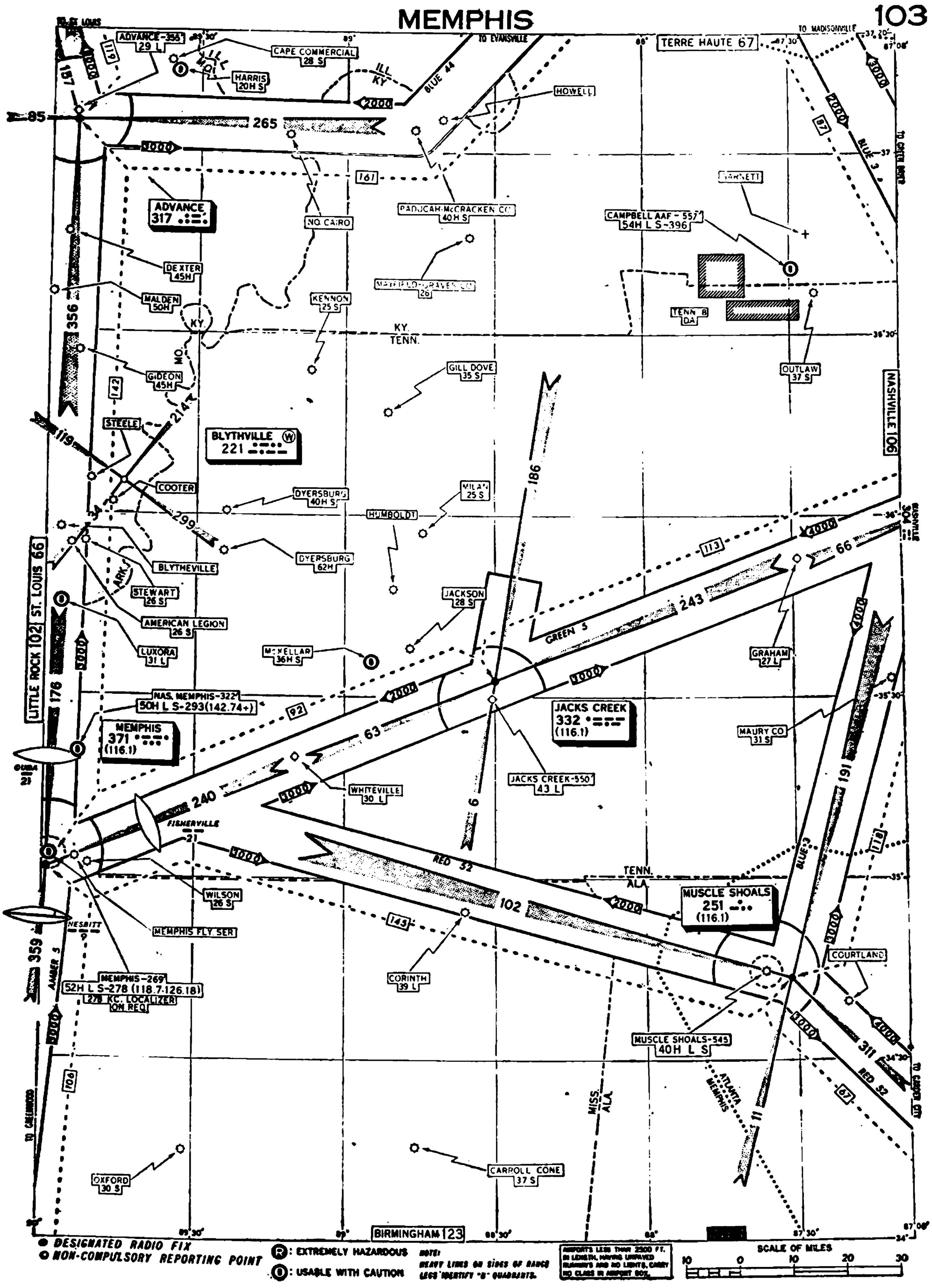
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ADAMS (Little Rock)	4 E; RR W	260	52h R2 L5 S6	80,91 oct; 73,100,JP-1 mil acft.
Ashley Co. (Crossett)	5.5 NE; RR E	160	21 S1	Ltd 80 oct. Obsts surround fld.
Bailey (Cabot)	0.5 W; RR E	270	16 S1	80 oct. Trees sur fld.
Benton	1.6 W; RR S	300	20 S6	80 oct. Poles S.
Bowen (West Memphis)	1.5 W; hwy N	215	17 L S6	80 oct. Flood lgts. Poles SE.
Brinkley, 37, DL-LV	1 E; RR N	188	31 L3	Obst NW.
Carlisle (Stuttgart)	26 NW; RR S	236	45h	
Commercial (De Witt)	2.4 W; RR N	196	24 S4	80 oct. Pole line E.
Conway	1.5 SE; hwy W	309	32 S6	80 oct.
Dockery (Stuttgart)	1.5 NNW	214	24 S2	73, 80 oct. Pole line N, S, E.
Elaine	1.3 N; RR E	170	18 S2	80 oct. Trees S, SE.
EL DORADO	1.5 S; RR W	265	24 S4	80 oct.
Erwin (Newport)	2.5 SSE	220	45h	
Forrest City	0.7 W; hwy SE	226	22 S2	80 oct. Bldg S.
Gilbrech (Palmer)	0.2 NE; RR S	178	17 S2	80 oct. N/S strip rough. Poles W.
Grider (Pine Bluff)	5.5 SE; hwy N	210	45 S6	73, 80 oct.
Hazen (Stuttgart)	18.7 NNW; RR N	225	45h	
J. B. Wilson (Joiner)	0.5 ENE; hwy W	225	15	Trees NE.
Levee (West Memphis)	2.4 E; RR N	215	24 S4	Ltd 73 oct. Pole line N, S.
Newport	6 ENE; hwy N	237	50h	
Overholt (Cotton Plant)	3 W; RR NE	250	18 S1	Ltd 80 oct.
Prairieville (Stuttgart)	8.2 SE	205	45h	
Round Pond	1.5 NNW; hwy N	200	22 S2	80 oct.
Searcy	2.8 S; RR E	260	14 S1	80 oct. Pole line NE, SE.
Stuttgart	7 N; RR E	230	50h	
Thompson-Robbins (Helena)	6 NW; RR S	242	20h S6	73, 80 oct.
Tony (Pine Bluff)	2.5 N; hwy W	215	28 S2	73, 80 oct. Twr NW lgtd.
Tucker (Hughes)	1.1 S; RR W	205	26 S2	80 oct.
Wright (Monticello)	1 ENE; hwy S	230	15	Pole line S.
Wynne	3.2 N; RR E	212	17 S2	80 oct. Pole line E, SE.
Central (Little Rock)	4.5 NE;RR S	255	35 S4	80 oct.Trees W.Data not verified.
McGehee	0.6 NNW;RR,hwy E	145	30 S1	80 oct.
LOUISIANA				
Delhi Flying Service	0.5 N	95	23 S4	80 oct. Pole line E. Data not verified.
Monroe Airpark	2.5 N; riv W	77	20 S4	73 oct.
Ruston	1 SW	320	15h S4	80 oct. Data not verified.
SELMAN (Monroe)	4.6 E; RR N	79	50h R1	
★ Tallulah Int, 36, FV-AG	2.4 ENE; RR S	84	28 L3	Beacon S.
Turner (Monroe)	9.5 NNE; RR E	85	32 S4	91, 80 oct. Pole line E.
MISSISSIPPI				
Augustine (Jackson)(NC)	11.5 NE; riv SE	335	40	
★ Batesville Int, 29, NO-LS	3 W; hwy SE	205	25 L3	Poles N, lgtd.
Canton (NC)	1.4 WNW; RR E	300	38	Tank E.
Childress (Flora)	1.5 NNW; RR E	186	30 S1	73 oct. Trees, bldg N.
Clarksdale	1.5 SE; hwy NW	175	22 S6	73 oct. Use strips only
Cleveland	2 NW; hwy S	400	26 S6	73 oct.
Cole (Heads) (NC)	3 NE; RR W	118	16	
Cypress (Greenville)	1.5 SSW; lake E	120	28 S1	80 oct. Data not verified.
Delta (Yazoo)	3.3 NNE; RR SE	115	21 S1	73 oct. Pole line N
Dixie Dusting Co. (Greenville)	2 SE; RR, hwy N	118	16 S4	73 oct. No sto.
Everett (Moorhead)	1 SE; RR N	127	37 S6	73 oct. No sto.
Fletcher (Clarksdale)	8 NNE; RR W	175	20h S6	80,91 oct.
Greenville,mun.	3.5 ESE; hwy N	118	40h S1	80,91 oct.
Greenville	6.5 NE; road W	131	45h	
GREENWOOD,mun.	2.3 SW; RR SE	129	40h R1 L5 S2	73, 80 oct. Pole line E, SE.
Greenwood	5.8 ESE; hwy N	162	50h	
Lakeview Airpark (Leland)	1.7 SE; lake E	120	18 S4	73 oct. No sto. Data unverified.
Marks	1.5 NW; hwy N	106	22 S1	73 oct.
North Jackson Airpark (Jackson)	7.5 NE; hwy E	300	25 S4	80 oct. No sto. Trees S.
Sanders (Walls)	1.8 S; hwy NW	210	40 S6	73, 80 oct. Trees E.
Skinner (Glen Allan)	4 N; lake W	110	18 S1	73 oct.
Vicksburg	6.8 NE; hwy W	287	39 R1 S4	80, 91 oct.
★ Zeigler ville Int, 19, NO-LS	3 SW; riv N	248	26 L2	Twr SE. Trees E, S, SE.
Leland	3 NNE		23 S4	80 oct.No sto.Pwr line NW.Data not verified

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

LITTLE ROCK


ST. LOUIS 66
NEWPORT 50H
ERWIN 45H
J. B. WILSON
LEVEE
BOWEN
ROUND POND
WYNNE
FORREST CITY
CONWAY 32 S
SEARCY MUN
BAILEY
CARLISLE
HAZEN
BRINKLEY 31 L
TUCKER 26 S
LITTLE ROCK 353 (116.1)
CENTRAL
ADAMS-260°
52H L S-278(118 5.126 18)
STUTTGART 269
STUTTGART
DOCKERY
THOMPSON-ROBBINS 20H S
GILBRECH
BENTON
TONEY 28 S
PRAIRIEVILLE
COMMERCIAL
GRIDER 45 S
ELAINE
BATESVILLE 28 S
FLETCHER 20 H S
CLARKSDALE
SANDERS 40 S
NESBITT
GREEN 5
ARK MISS
CLEVELAND 26 S
GREENWOOD – 129° 40 H L S
GREENWOOD 281 (116.1)
GREENVILLE 45 H
MC GEHEE
DIXIE DUSTING CO.
LELAND
EVERETT 37 S
CYPRESS
LAKEVIEW
GREENWOOD 50 H
ASHLEY CO
GREENVILLE 40H S
EL DORADO
SKINNER
ZEIGLERVILLE 26 L
DELTA
ARK LA NORTHEAST
TURNER 32 S
SELMAN-79° 50H
MONROE 359 (116.1)
On request
VICKSBURG 382 (116.1)
VICKSBURG-287 39 S
CHILDRESS 30 S
TALLULAH 28 L
JACKSON 260 (116.1)
NO JACKSON 25 S
DELHI
RUSTON
BEAUMONT 119
MONROE
NEW ORLEANS 22
OVER
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS INDICATE 8 QUADRANTS
AIRPORTS LESS THAN 2500 FT OR LESS IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT DOT
R EXTREMELY HAZARDOUS
U USABLE WITH CAUTION

MEMPHIS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
10 0 10 20 30

MEMPHIS

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
MUSCLE SHOALS	251 (ED)(116.1)	SBRAZ-VDT, 282°, 4.5	(4); 116.1
ARKANSAS			
BLYTHEVILLE	221 (LY)	RLWZ, 225°, 13.6	
KENTUCKY			
→ CAMPBELL AAP (Hopkinsville)	396	CA	(3) (7-21)
MISSISSIPPI			
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
MISSOURI			
ADVANCE (Int.)	317 (AP)	SBMRAZ-DT, 354°, 1.5	(4)
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis
FISHERVILLE FM	(- -)	FM, 60°, 20.5	Memphis
JACKS CREEK (Int.)	332 (JK)(116.1)	BMRIZ-VDT, 186°, 2.62	(4); 116.1
MEMPHIS	371 (PS)(116.1)	SBRAZ-VDT,	(3); 116.1
Memphis Airport	278 (126.18)(118.7)	AC; 356°, 2.1	(4); 131.9, 126.18, 118.7
Memphis Airport	278	MLW	(On request only)
Memphis NAS	293 (142.74)	CN	3105; 142.74 (6-24)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Courtland	1.5 SW; RR N	587	50h	
Muscle Shoals	1.5 E; dsm NNW	545	40h R1 L5 S6	80, 91 oct.
ARKANSAS				
American Legion (Blytheville)	1.5 ESE; RR N	260	26 S6	80 oct. Pole line N, W. Stack E.
Cooter (Blytheville)	10 NE	260	40h	
★ Luxora Int, 39, NO-LS	1 WNW; hwy S	240	31 L2	
Steele (Blytheville)	12.3 N	258	40h	
Stewart (Blytheville)	2.2 E; RR S	254	26 S2	80 oct.
Blytheville	3 NW; RR SW	254	50h	
ILLINOIS				
North Cairo (Cairo)	3 NNW; RR E	312	24 S4	73 oct.
KENTUCKY				
(A) Campbell AAF (Hopkinsville)(A)	12.8 S; RR E	557	54h R1 L5 S4	73,100 oct.
Garnett (Hopkinsville)	6 SSE; hwy W		23 S1	80 oct. Data not verified.
Howell (Paducah)	4 WNW; RR S	371	21 S6	80 oct.
Mayfield-Graves County	3.6 ENE; hwy S	543	26	
PADUCAH-McCRACKEN CO. (Paducah)	8.8 W; RR N	405	40h S6	80, 91 oct. No sto.
MISSISSIPPI				
Carroll Cone (Tupelo)	3 W; hwy S	278	37 S1	80 oct.
Corinth 7, PS-TM	5 WSW; hwy N	418	39 L3	
Oxford	8 S; r1v N, W	400	30 S2	73 oct.
MISSOURI				
★ Advance Int; 48, MO-LS	0.8 WSW; RR S	355	29 R1 L3	
Cape Commercial (Cape Girardeau)	4.8 SW; RR S	340	28 S6	80,91 oct. 8' dike S.
Dexter (Malden)	12.5 NNE	315	45h	
Harris (Cape Girardeau)	6.5 SSW; hwy E	340	20h S6	80, 91 oct.
Harvey Parks (Sikeston)(NC)	2 NE; RR S	315	66	Pole line W. Allway area.
Malden	3.5 NW; RR E	296	50h	
Gideon (Malden)	1 SE of Gideon	268	45h	
TENNESSEE				
Dyersburg	9 S; RR E	289	62h	
Dyersburg, mun.	2 SW; r1v N	337	40h S4	80 oct. No sto.
Embry Riddle (Union City)	5 ESE; r1v WNW	340	18h	Allway: 4620 x 3960'.
Gill-Dove (Martin)	3.5 S; hwy E	416	35 S6	80 oct.
★ Graham Int. 59, DL-LV	1.5 NW; hwy E	536	27 L3	
Humboldt	4.6 ESE; hwy W	380	15 S1	80 oct.
★ Jacks Creek Int. 53, DL-LV	2 N; hwy E	550	43 R1 L3	
Jackson	2.5 ENE; hwy NW	450	28 S6	80 oct.
Kennon (Union City)	3.2 WSW; hwy N	350	25 S6	80 oct. No sto. Pole line N.
(P) McKellar (Jackson)	5.8 W; RR S	410	36h S6	80 oct.
Maury County (Mt. Pleasant)	2.5 ENE; RR SW	672	31 S2	80 oct. Pole line NW.
(A) MEMPHIS	5.9 SSE; RR NE	269	52h R2 L6 S6	73, 91, 100 oct. JP-1. Radio required.
Memphis Flying Service (Memphis)	11 SE; RR 3 NW	286	35 L4 S6	80,91 oct.Pole line S.No bcn.Lgts prior req.
(M) Memphis NAS (M)	16 NNE; RR NW	322	50h R1 L5 S6	91, 100 oct. MATS. Rnyw,lgtg info not ver.
Milan	2.8 NNE; RR SE	421	25 S5	80, 91 oct.
Outlaw (Clarksville)	7.4 NNW; RR W	550	37 S5	80 oct.
Wilson (Memphis)	11.5 SE; hwy W	320	26 S6	73 oct.
★ Whiteville Int. 49, DL-LV	0.6 NNW; RR E	494	30 L3	

h-hard surfaced runways R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

NASHVILLE

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GARDEN CITY FM	(. . -)	FM, 358°, 28	Birmingham
		KENTUCKY	
BOWLING GREEN	368 (BA)	SBMRAZ-DT, 296°, 3.8	(4)
		TENNESSEE	
BERRY FIELD (Nashville)	278(118.3,126.18)	AC (ILS)	(4);126.18,118.3,131.9
CHATTANOOGA	341 (CB)(116.1)	SBRAZ-VDT	(4);116.1
Chattanooga-Lovell Field	278	C, 203°, 3	(4)
FAIRVIEW FM	(- - -)	FM, 246°, 28	Nashville
GREEN BRIER FM	(- - - -)	FM, 331°, 23	Nashville
KINGSTON FM	(- - - -)	FM, 276°, 27.5	Knoxville
NASHVILLE (Berry)	304 (NA)	SBRAZ-DT, 245°, 2.6	(3)
SMITHVILLE (Int)	347 (XM)(116.1)	SBMRAZ-VDT, 177°, 1.4	(4):116.1
SMYRNA AAP (Nashville)	219 (126.18)	CA (ILS)	(3):126.18
WALTERHILL FM	(- -)	FM, 129°, 19.6	Nashville

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BERRY, TENN.	109.9		14° Mag.	IM (.15)	MM (.81)	OM (4.17)
					MMK	OMK
SMYRNA AAF, TENN.	109.5	335	230° Mag.	IM (.04)	MM ..... (.81)	OM -- (4.31)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertville	1 NW;RR NE	1063	15 S1	80 oct.
Athens	3.2 NNW;hwy E	690	26 S2	80 oct. Lgt acft only.
Beaver Dam (Decatur)(NC)	7 E;RR W	580	20	
Centre (NC)	0.6 NNW;RR E	720	23	
Cullman	5 SSE;RR E	740	15 S2	73 oct.
Decatur	4 WNW;hwy N	577	19	Pwr line N.
Gadsden	1.9 SW;hwy N	540	20 S2	90 oct. Fld rough.
Guntersville Dam (NC)	9.1 NW;hwy E	600	30	
Hartselle	1 WSW;hwy N	588	18	
HUNTSVILLE	3.1 S;RR E	610	40h S1	80 oct.
(A) " Arsenal (A)	7 SW;RR NW	677	56h	
North Sauty Base (Scottsboro)	3.2 SSW;RR NNE	610	20 S1	80 oct.
Pryor (Decatur)	4 NNE;hwy W	588	46 S4	80,91 oct.

GEORGIA

Cedartown	1 W;road S	850	25 S4	80 oct. Pole lines N,W; hill SW.
Clevenger's Airpark (Marietta)	5 NE;RR W	1080	14 S4	Ltd 80 oct. No storage.
Dalton	5.7 ESE	700	22 S1	80 oct.
Pelton (Cartersville)	2.5 N	790	23	Hills S,W,N; wires E,W.
Jasper	1 N;RR W	1935	17 S2	80 oct.
La Fayette-Trion (Trion)	3 NNE;RR W	722	21 S1	80 oct. Hwy E.
Rockmart	2 ENE;RR W	800	20 S1	80 oct. Pole line W.
Rome	3 NW;RR S	669	25 S6	80 oct. No storage.
(P) Russell (Rome)	7 N;hwy W	644	45h	

KENTUCKY

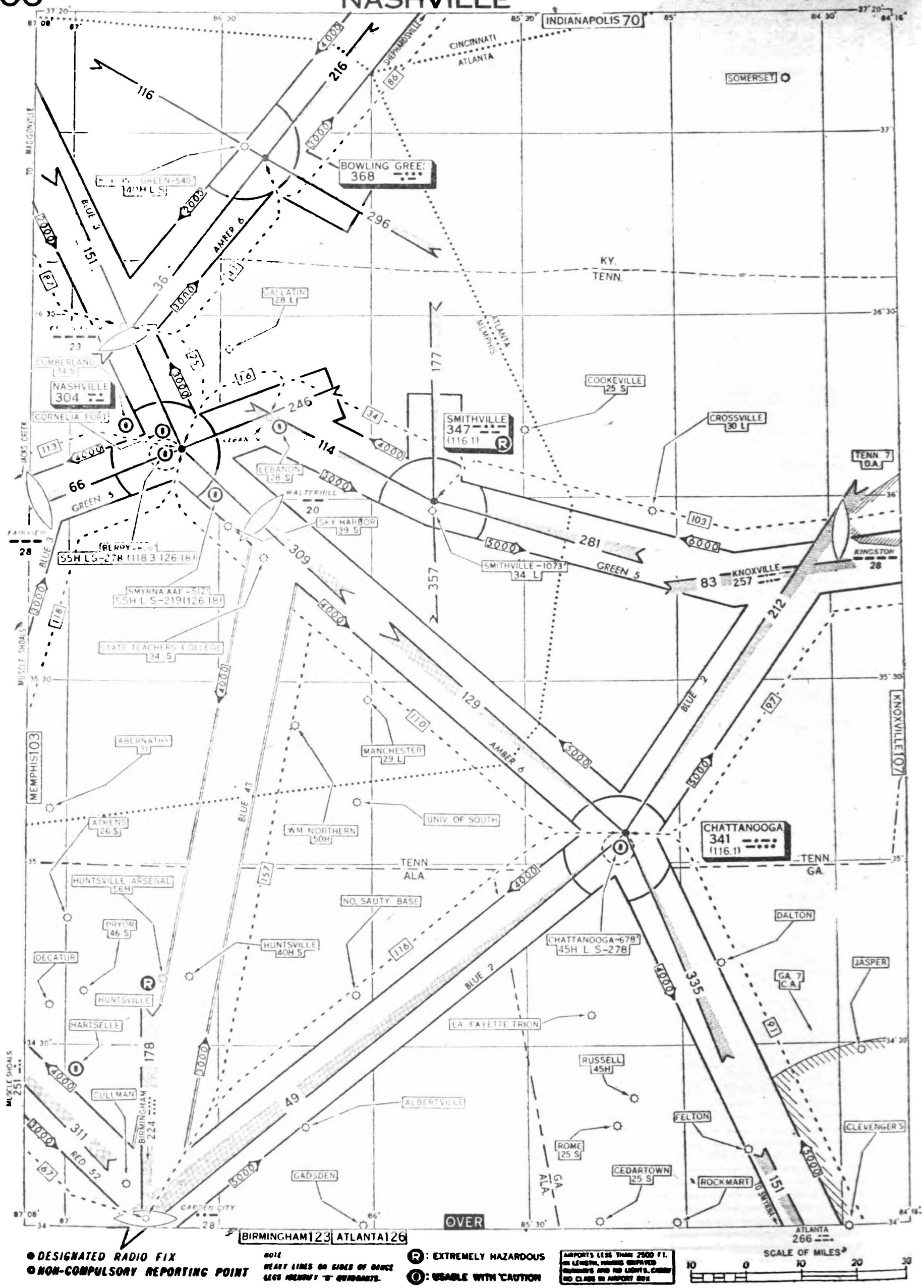
(P) Bowling Green	2.5 SSE;hwy W	540	40h R1 L5 S4	80,91 oct.No sto.Fld lgts prior req.
Somerset	5 N; RR W		20 S2	80 oct. Data not verified.

TENNESSEE

Abernathy (Pulaski)	3.6 SSW;hwy NE	650	31 S1	80 oct. Trees E.
→ (P) BERRY (Nashville)	6 SE;hwy S	606	55h R3 L6 S6	72,100 oct.
Boyd (McMinnville)(NC)	4.6 SW;RR N	1000	20	
CHATTANOOGA	5.5 E;RR E	678	45h R2 L5 S6	80,91 oct.
Cookeville	1.5 NNE;RR N	1050	25 S4	80 oct. Sto in emerg. Poles W.
Cornelia Port (Nashville)	4 ENE;riv E	420	30 S6	80 oct. Data not verified.
Crossville,9,NA-WA	3.3 WNW;hwy S	1862	30 L3	
Cumberland (Nashville)	3 NNW;riv N	400	34 S6	80 oct. No storage.
★ Gallatin Int,66,DL-LV	1.5 NW;hwy NE	557	28 L3	
Lebanon	1.8 SW;hwy E	522	28 S6	73 oct. No storage.
★ Manchester Int,16A,AG-NA	4.5 ESE;hwy SW	1090	29 L3	53' trees W,N.
Sky Harbor (Murfreesboro)	7.3 NW;hwy SW	560	39 S6	73 oct. No storage. Poles NE.
★ Smithville Int,5,NA-WA	1 E;road S	1073	34 R1 L3	
(A) Smyrna AAP (Nashville)(A)	17 SE;RR SW	512	55h R3 L5 S6	73,91,100 oct. JP-1. No rng.
State Teachers College(Murfreesboro)	2 E;hwy N	600	34 S4	80 oct. No storage. Poles N.
University of South (Cowan)	1.8 WNW;RR NE	870	23 S2	80 oct.
William Northern (Tullahoma)	2 WNW;road S	1081	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

NASHVILLE



● DESIGNATED RADIO FIX
⊙ NON-COMPULSORY REPORTING POINT

NOTE
HEAVY LINES ON SIDES OF BLOCK LEGS INDICATE "S" QUADRANTS.

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

AIRPORTS LESS THAN 2000 FT. OR LENGTH, RUNWAYS ESURFACED RUNWAYS AND NO LIGHTS. CROSS IND CLASS IN AIRPORT BOX

KNOXVILLE

ALL FACILITIES IN ATLANTA FLIGHT ADVISORY AREA

COLUMBUS 71

TO CINCINNATI

TO CHARLESTON

PAYNESVILLE 356

JODY 25 S

RICHLANDS

POWELL VALLEY 25 S

MIDDLESBORO 26 S

KY.

VA.

TENN.

TRI-CITY-1518 45H L S

CHILHOWIE 34 L S

CHILHOWIE 43

MORRISTOWN

TRI-CITY 221 (116.1)

W JEFFERSON

CHARLOTTE 110

TENN. 7 DA

ISLAND 35 S

PIEDMONT 28

GREEN 5

TENN.

N. CAR.

MORGANTON

FRANCIS MARION

BLACK MT

JOSEPHSON

KNOXVILLE-988 50H L S-278 (118.7, 126.18)

278 KC LOCALIZER ON REQ

KNOXVILLE 257 (116.1)

ASHEVILLE HENDERSONVILLE 40H L S

TALLASSEE 23

SYLVA 25

RUTHERFORD

BYERS

HENDERSONVILLE 30 S

NASHVILLE 106

FRANKLIN

GREENVILLE 281 (116.1)

FAIRFOREST

PARIS MT

N. CAR.

GA.

S. CAR.

GREENVILLE-1015 42H L S

LE TOURNEAU 30 L S

GREENVILLE AAB-942 55H L S-272 (126.18)

MEMORIAL-804 44H L S-317 (118.7, 126.18)

SPARTANBURG 248

GA. 7 CA

RIVERBEND

BARKSDALL 30 S

GAINESVILLE 40H

CRAWFORD W. LONG 27 S

ANDERSON-783 50H L S

ANDERSON 236 (116.1)

On request

CORONACA 50H

WINDER 30 L

ATLANTA 266

BENTLEY

ALLEN

ELBERTON

GREENWOOD

TO BOLD SPRINGS

TO MOORESVILLE

TO CHARLOTTE

TO ATLANTA 126 SAVANNAH 131

● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓤ: USABLE WITH CAUTION

NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT DATA.

SCALE OF MILES

10 0 10 20 30

RADIO

SOUTH CAROLINA

LOCATION	FREQ..IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED. HRS. OF OPER., REMARKS
ANDERSON	236 (AS)(116.1)	MEVT	(4); 116.1
GREENVILLE	281 (GC)(116.1)	BMLZ-VDT, 2°, 2	(4); 116.1
Greenville AAB	272 (126.18)	CA	(3); 126.18
MEMORIAL AIRPORT (Spartanburg)	317 (126.18)	C	(4);118.7,126.18,131.9
SPARTANBURG (Memorial Arpt)	248 (SU)	SBRAZ-DT,58°,1.6	(3)

TENNESSEE

KNOXVILLE	257 (KX)(116.1)	SBRAZ-VDT	(3); 116.1
→ Knoxville Airport	278 (126.18)	C; 192°, 2.9	(4); 118.7, 126.18, 131.9
Knoxville Airport	278	(Low powered range)	(4)(on req.)
PIEDMONT FM	(- -)	FM, 66°, 28	Knoxville
TALLASSEE-FM	(- - -)	FM, 192°, 23	Knoxville
TRI-CITY	221 (TI)(116.1)	SBMRAZ-VDT,252°, 3.3	(4), 116.1

VIRGINIA

CHILHOWIE FM	(-)	FM, 65°, 43	Tri City, Tenn.

WEST VIRGINIA

PAYNESVILLE	356 (IR)	H	Operated by P.C.A.(6-23)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs ; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Buford)	1.5 S,hwy SW	1070	15 S1	80 oct. Pole line SW.
Crawford W. Long (Jefferson)	2.5 S,RR E	950	27 L1 S1	80 oct. Pole line SE.
Elberton	2 SE,hwy W,N	710	16 S1	80 oct. Obst sur fld.
Gainesville	1.5 S,RR E,NW	1277	40h	
Le Tourneau (Toccoa)	2.5 NE,RR S	950	30 L3 S4	80, 91 oct.
Riverbend(Gainesville)	4.5 N, in bend of river	1200	17 S1	80 oct.Steep grade NNW end.
★ Winder Int,4,AG-LG	1.5 NE,bet rds	950	30 L3	Trees, bldg N.

KENTUCKY

Jody (London)	3 S,hwy E	1240	25 S2	80 oct.
Middlesboro	1.2 W,hwy S	1150	26 S4	80 oct.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ASHEVILLE-HENDERSONVILLE (Ashev'l)	11.5 SSE,RR W	2090	40h L5 S4	73, 80, 91 100 oct.
Black Mountain	1.8 SW,RR N	2270	15 S1	80 oct. Soft.
Byers (Shelby)	3 SE,RR SW	875	16 S4	80 oct.
Francis Marion (Marion)	2.5 NE,RR NE	1450	19 S4	80,91 oct.
Franklin	1.2 ESE,riv W	1996	23 S2	80 oct.
Hendersonville	1.5 ESE,hwy SW	2200	30 S6	80, 91 oct.
Josephson (Asheville)	3 W,riv E	2200	20 S1	Ltd 80 oct. Trees NW,SE.
Morganton	2 NW,riv E	1024	16 S2	80 oct.
Morganton-Lenoir (Morganton) (NC)	7.5 NE	1253	33 S2	No fuel.
Rutherford(Spindale)	1.5 SSE,RR N	1012	17 S2	80 oct.
Sylva	2.4 NE,riv SW	2039	25 S2	No fuel.
West Jefferson	2 SSW,RR NNE	3200	16 S2	80 oct.

SOUTH CAROLINA

Anderson	4.5 WSW,hwy S	783	50h R1 L5 S6	80, 91 oct.
Barksdale (Laurens)	2.8 E,RR NE	700	30 S6	73 oct. Pole line NE.
Bentley (Calhoun Falls)	3 ENE,RR NNW	500	16	
Chesnee	2 S,RR W	910	18	PRIVATE.
Coronaca (Greenwood)	3.8 N,RR E	629	50h	
Fairforest (Spartanburg)	5.8 WNW,rd W	830	23 S6	80 oct.
(N) GREENVILLE	3.2 E,RR SE	1015	42h R1 L5 S6	80 oct.
(A) Greenville AAB (A)	7.5 SSE,hwy W	942	55h R1 L5 S6	73, 91, 100 oct. No sto.
Greenwood	2.6 W,RR E	650	24 S6	73 oct.
(N,P) MEMORIAL (Spartanburg)	2.5 SW,hwy SE	804	44h R2 L5 S6	80, 91 oct. 100 oct. for military.
Paris Mountain (Greenville)	4.2 NNW,RR E	1006	21 S6	80 oct. Pwr line NW.

TENNESSEE

Island (Knoxville)	2.5 E	830	35 S4	80 oct. No sto.
(P) McGHEE-TYSON (Knoxville)	12 SSW,hwy E	988	50h R2 L5 S6	91, 100 oct.
Morristown	5.7 ENE	1400	19 S1	73 oct.
TRI-CITY	11.3 NNW Johnson City	1518	45h R1 L5 S6	80, 91 oct. 10.2 ESE Kingsport.

VIRGINIA

★ Chilhowie Int,29B,NA-WA	3.9 SE,riv N	2100	34 L3 S4	80 oct. Pole lines SW,NE.Riv SW.
Powell Valley (Big Stone Gap)	4 ESE,hwy NW	1700	25 S4	80 oct.Pole line ENE,hills W.
Richlands	2.7 WSW,RR N	1950	20 S?	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

RADIO

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHARLOTTE (Douglas)	212(CF)(116.1)	BMLZ-VDT; 359°,1.7	(3); 116.1
DOUGLAS ARPT (Charlotte)	396 (126.18) (118.9)	C	(4); 126.18,118.9,131.9, others on req.
GREENSBORO	365(GW)(116.1)	SBRAZ-VDT	(3); 116.1
Greensboro-High Pt. Airport	219 (126.18) (118.7)	C; 241°, 1.5	(4); 118.7,126.18
POPE (Fort Bragg)(Army)	338(DOP)(116.1)	SBMRAZ-V	(5); 116.1
Pope Field	396 (126.18) (116.1)	CA(ILS);355°,2.5	(3); 116.1,126.18
RALEIGH (Raleigh-Durham Airport)	350(DU)(116.1)	SBRAZ-VDT;299°,3.8	(4); 116.1
→ SMITH-REYNOLDS AIRPORT (Winston-Salem)	278 (126.18) (118.3)	C	(4); 126.18,118.3,131.9
WINSTON-SALEM (Smith-Reynolds Airport)	379 (DWS)	MRLWZ; 328°, 5.1	
SOUTH CAROLINA			
FLORENCE	239(FL)(116.1)	SBMRLZ-VDT;292°,1.7	(4); 116.1
VIRGINIA			
DANVILLE	344(VE)(116.1)	MHVT	(4); 116.1
PULASKI (Loving)	272(US)(116.1)	SBMRAZ-VDT,24[illegible]°,2.1	(4);116.1
ROANOKE (Woodrum Fld)	317(RO)(116.1)	SBRAZ-VDT;349°,2	(3); 116.1
WOODRUM FIELD (Roanoke)	278 (118.5)	C	(4); 131.9,118.5,126.1[illegible]

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
POPE, N.C.	110.3	335	360° Mag.	IM (.04)	MM ..... (4.00)	OM (7.18)
					IMR	OMR

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs. (4)-3105.4495.6210.3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

NORTH CAROLINA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen Inc.	1.2 W; RR N	450	25	Obsts sur fld.
Asheboro	1.8 SSW;hwy NW	864	18 S2	80 oct.
(A) Balloon (Ft. Bragg)(A)	1 NNW; RR E	225	22	Closed to all acft.
Belmont	1.3 NE;riv E	740	20 S6	80 oct. No sto.Pole line WNW.
Bridges (Kings Mountain)	1 SW; RR SE	930	17 S2	80 oct.
Brockenbrough (Derita)	3.8 WNW;RR E	860	22 S6	80 oct. Pole line SSE.
Brooks (Red Springs)	1.2 N; RR SE	208	26	
(P) Burlington	4 SW; hwy W	638	28 S6	80 oct. Pole line S.
Burris (Lincolnton)(NC)	2.2 SW; RR SE	960	10	UNUSABLE.
Camp MacKall (Hoffman)	3.5 E	350	50h	
Candor (NC)	1.1 E; RR N	710	19	Pole line WNW.
Cannon (Charlotte)	3 WNW; hwy S	783	24 L S6	80,91 oct. Flood lgts req.
Caswell (Yanceyville)	3.7 S; hwy W	640	20 L S1	80 oct. Flare pots prior req.
Coley (Concord)	2 SW; RR E	790	12 S1	80 oct. Trees ESE.
Colonial Flying Service (Mt. Airy)	1.4 NNE;RR S	950	15 S1	80 oct. Pole line, trees NNW.
Concord	4.5 ESE,rd E,S	700	19 S2	80 oct. Pole line NE.
Delta Air Base(Charlotte)	6.7 E; hwy S	750	31 S6	80,91 oct. No sto. Poles NW.
(A) DOUGLAS (Charlotte)	5.5 W; RR N	745	52h R2 L5 S6	80,91 oct.
Durham Airways	7.8 N; RR E	310	14 S1	80 oct.
Elkin	2.8 SW;RR NNW	1100	24 S2	80 oct.Rnwy data unverified.
Erwin	1 SW; riv SW	195	30 S1	80 oct. Pwr line S.
Fairchild-Civil (Burlington)	1.5 E; RR S	640	35h	
Fayetteville	5 N; hwy E	238	36 L1 S6	80 oct. Pwr line E.
Fraley (High Point)	2.5 SSE;RR W	1000	17 S6	80 oct. Strips rough. Trees SE.
Gastonia	1.3 SW	795	16h S4	80 oct. Pwr line SW.
" mun.	4.5 SSE;hwy SW	800	30h	
GREENSBORO-HIGH POINT	8 WNW; RR SW	905	40h R2 L5 S6	80,91,100 oct.

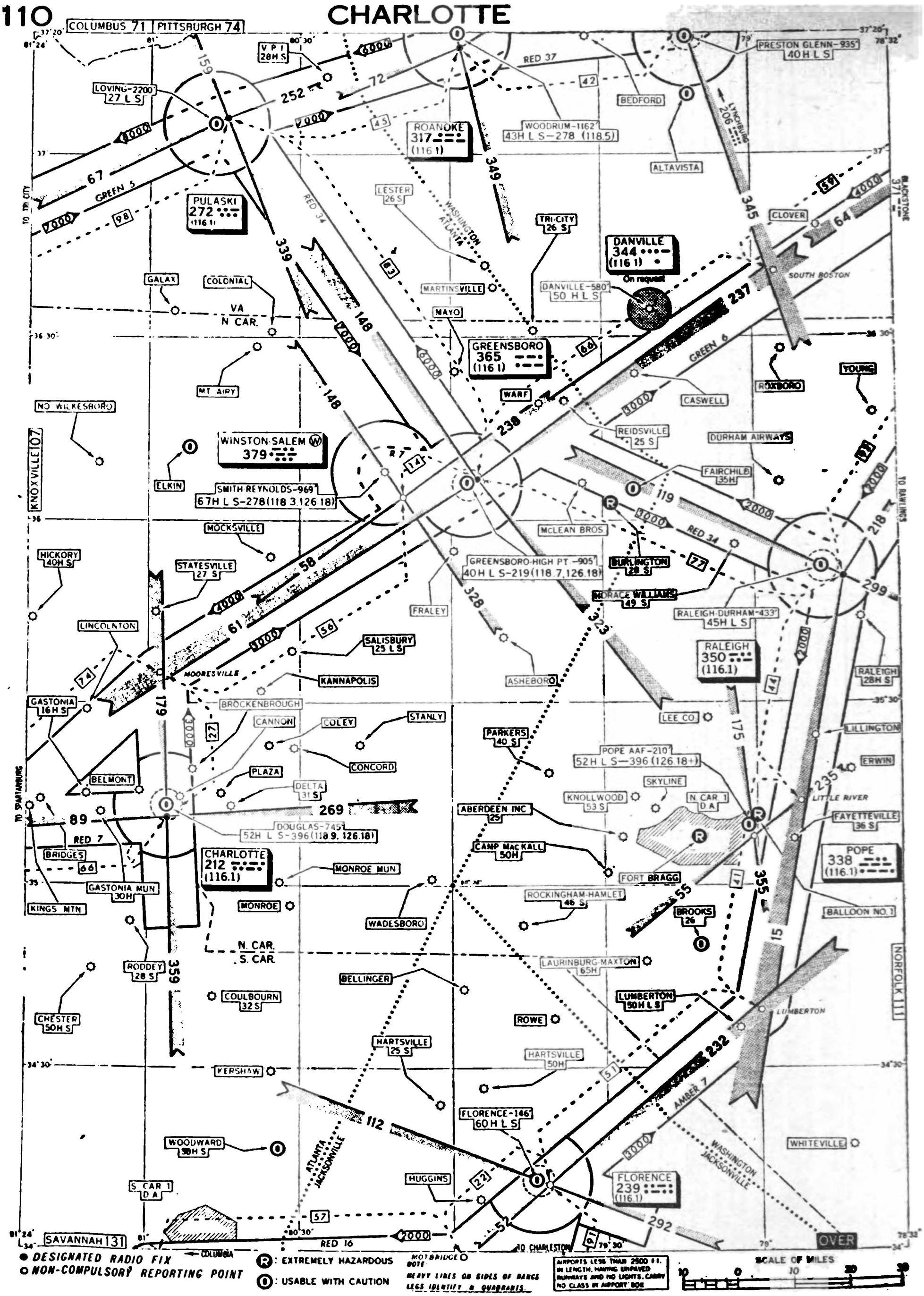
h-hard surfaced runways R-radio facilities L-lighting facilities S-servicing (See page XIII) (NC)-Not charted.

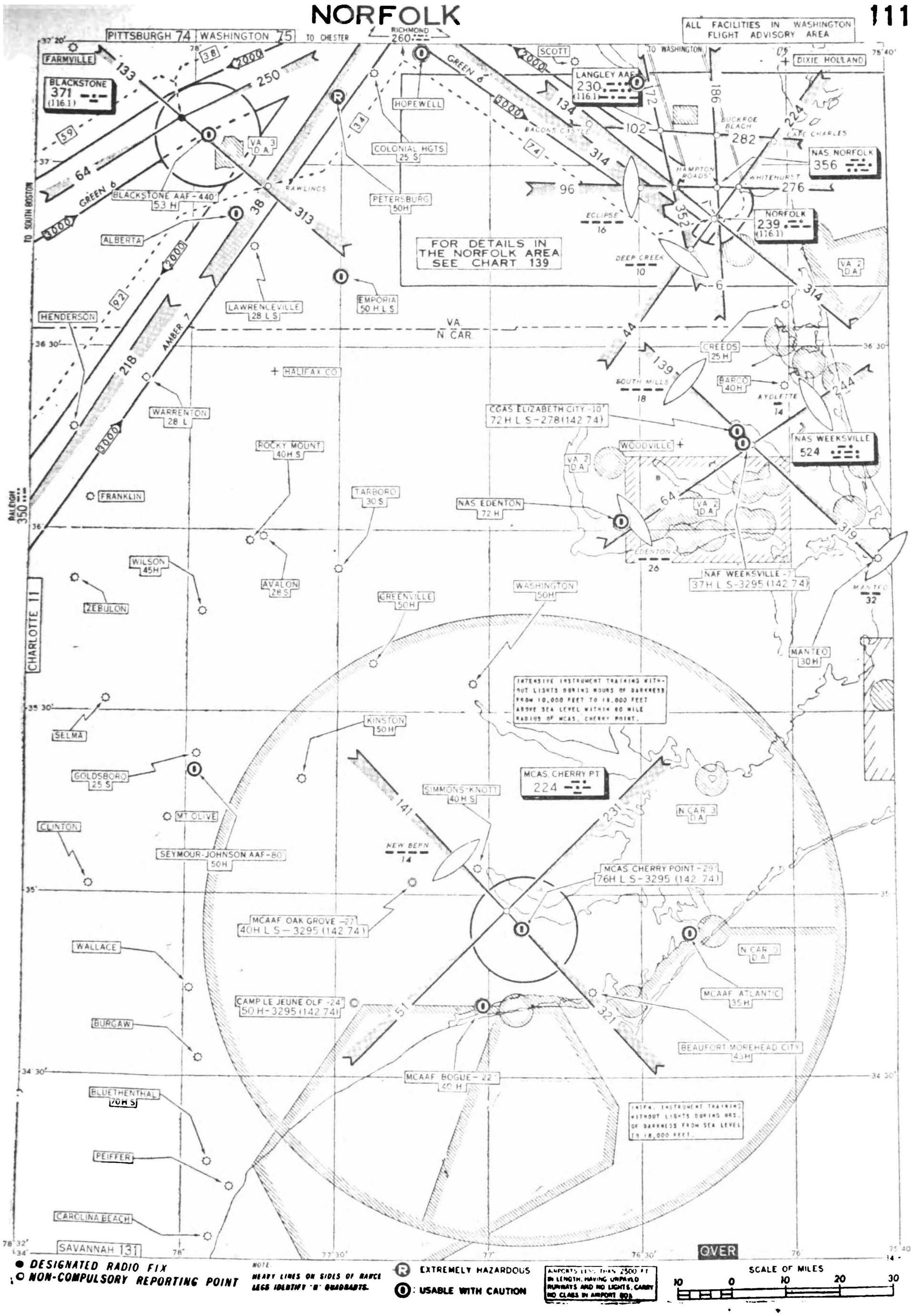
→ NEW OR REVISED DATA

NORTH CAROLINA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Hickory	2.2 W;RR S	1180	40h S6	80,91 oct.
Horace Williams (Chapel Hill)	1.3 NNW;RR W	502	49 S4	80 oct.
Kannapolis	2.8 N; RR E	750	23 S6	80 oct. Trees WNW.
Kings Mountain	3.5 SW; RR SE	980	23 S2	80,91 oct.
Knollwood (Pinehurst)	2 NE; hwy W	455	23 L5 S4	80,91 oct.
Laurinburg-Maxton(Maxton)	3.5 N;riv E	220	65h	
Lee County (Sanford)	1.5 SE;RR E	400	19 S4	80 oct. No sto. Pwr line sur fld.
Lillington	1.1 NNE;RR S	210	15 S2	80 oct.Pole line NW.
(P) Lumberton	3 NSW;hwy NNW	126	50h L2 S6	80,91 oct.
McLean Brothers (Gibsonville)	0.5 SW;hwy NE	723	18 S6	80 oct.
Mayo (Mayodan)	0.8 W; riv E	900	24 S1	80 oct.
Mocksville	2 W; RR E	800	14 S2	80 oct.
Monroe, com	2.8 SSE	600	20 S2	80 oct.
" mun	2 NNW; hwy S	630	20 S1	80 oct. Trees NW.
Mt. Airy	2.2 SW;RR E	1050	20 S2	80 oct.
North Wilkesboro	1.3 WSW;riv S	970	15 S4	80 oct.
Parkers (Eagle Springs)	1.8 NW;RR S	700	40 S1	80 oct.
Plaza (Charlotte)	5 NE; RR N	740	20 S6	80 oct.
(A) Pope (Ft. Bragg)(A)	2 NW; riv NW	210	52h R3 L5 S6	73,91,100 oct.
Raleigh	3.3 SSW;RR W	364	28h S6	80,91 oct.
RALEIGH-DURHAM(Raleigh)	10.5 NW;RR W	433	45h R1 L5 S4	80,91 oct.
Reidsville	3.2 SE;riv S	822	25 S6	80 oct.
(P) Rockingham-Hamlet	3.5 S; RR E	358	46 S2	80 oct.
Roxboro	7 NE; RR W	660	18 S1	80 oct.
Salisbury	3 SW; RR E	764	25 L2 S6	73 oct.
Skyline (Southern Pines)	4.5 NE;RR NW	460	21 S4	80 oct. No sto. Pwr line S.
(P) SMITH-REYNOLDS (Winston-Salem)	2.8 NNE;RR W	969	67h R2 L5 S6	80,91 oct. Rnwy data unverified.
Stanly (Albermarle)	6 NW;hwy S	720	16 S1	80 oct.
Statesville	4.5 WSW;RR SE	990	27 S2	80 oct. Trees N.
Tri-City (Draper)	1.2 W; riv W	560	26 S2	80 oct.
Wilkesboro	3.7 NNE;RR S	820	18 S4	80,91 oct.
Wart (Reidsville)	3.8 SW; hwy W	830	23 S2	80 oct. Trees N. S.
Whiteville	3.7 S; RR N	60	18 S1	Ltd 80 oct.
Young Airfield (Oxford)	1.8 SW; RR NW	475	18 S1	Ltd 80 oct.
SOUTH CAROLINA				
(P) Chester	2 NNE;RR W	709	50h S4	80 oct. No sto.
Coulbourn (Lancaster)	1 SSW;hwy SW	560	32 S4	80 oct.
Florence	3.5 E; RR SW	146	60h R1 L5 S1	80,91 oct.
Hartsville	2.1 NNE;hwy S	230	25 S2	80 oct.
(P) Hartsville (Darlington)	10 N; hwy E	190	50h	
Huggins (Timmonsville)	1.5 ENE;hwy NW	149	18 S4	80 oct. Pwr line NNW.
Kershaw	4 S; RR W	475	21	
Little Rock (NC)	2.5 SE;hwy W	135	22	Poles around fld.
Lynch Bellinger (Cheraw)	4.2 WNW;RR S	400	22 S4	80 oct. No.sto.Pole line S,WSW.
Palmer (Bennettsville)	3.4 NNW;hwy E	155	44	Not maintained as landing fld.(NC)
Roddey (Rock Hill)	2.7 SW; RR NW	664	28 S4	80,91 oct.Pole line S.
Rowe (Bennettsville)	1.5 NE	190	39 S2	80,91 oct.Trees SW.
(P) Woodward (Camden)	2.9 NE; hwy E	300	30h S4	80 oct.
VIRGINIA				
Altavista	6.1 NE;RR S	650	18 S1	80 oct. Trees SW.
Bedford	1.3 WSW;RR N	1050	16	PRIVATE.
(P) Danville	3.4 ESE	580	50h R1 L5 S6	80,91 oct.
Galax	6.5 S;hwy E	2575	27 S4	80 oct.
Lester (Martinsville)	0.8 NNW;RR NE	1000	26 S2	80 oct.20-75' bldgs SE.
Loving,35A,NA-WA(Pulaski)	2.3 N;RR SE	2200	27 R1 L3 S4	80 oct.Poles SW.No sto.
Martinsville	3.5 SSE;RR NE	800	16 S2	73 oct.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
V.P.I. (Blacksburg)	1.3 SSE;RR W	2100	28h L1 S6	73,80 oct. Strip rough.
(P) WOODRUM (Roanoke)	4.2 NNW;rd W	1162	43h R2 L5 S6	80,91,100 oct.
Clover	3.5 SSW;riv E	350	20	Trees E,W,SE,NW.House E,SE.

CHARLOTTE


COLUMBUS 71 | PITTSBURGH 74
VPI 28H S
LOVING-2200 27 L S
PRESTON GLENN-935 40H L S
ROANOKE 317 (116 1)
WOODRUM-1162 43H L S-278 (118.5)
BEDFORD
ALTAVISTA
LYNCHBURG 206
PULASKI 272 (116 1)
LESTER 26 S
TRI-CITY 26 S
DANVILLE 344 (116 1) On request
CLOVER
SOUTH BOSTON
BLACKSTONE 371
GALAX
COLONIAL
VA
N CAR.
MARTINSVILLE
MAYO
DANVILLE-580 50 H L S
GREENSBORO 365 (116 1)
WARF
CASWELL
ROXBORO
YOUNG
MT AIRY
NO WILKESBORO
WINSTON-SALEM 379
ELKIN
SMITH REYNOLDS-969 67H L S-278(118 3.126 18)
REIDSVILLE 25 S
DURHAM AIRWAYS
FAIRCHILD 35H
MOCKSVILLE
MCLEAN BROS
HICKORY 40H S
STATESVILLE 27 S
GREENSBORO-HIGH PT -905 40 H L S-219(118.7,126.18)
BURLINGTON 28 S
HORACE WILLIAMS 49 S
FRALEY
LINCOLNTON
SALISBURY 25 L S
MOORESVILLE
KANNAPOLIS
ASHEBORO
RALEIGH-DURHAM-433 45H L S
RALEIGH 350 (116.1)
RALEIGH 28H S
GASTONIA 16H S
BROCKENBROUGH
CANNON
COLEY
STANLY
CONCORD
LEE CO
PARKERS 40 S
LILLINGTON
POPE AAF-210 52 H L S—396 (126.18+)
ERWIN
BELMONT
PLAZA
DELTA 31 S
SKYLINE
KNOLLWOOD 53 S
N CAR 1 D A
LITTLE RIVER
ABERDEEN INC 25
FAYETTEVILLE 36 S
DOUGLAS-745 52H L S-396(118 9. 126.18)
CAMP MACKALL 50H
POPE 338 (116.1)
CHARLOTTE 212 (116.1)
MONROE MUN
FORT BRAGG
GASTONIA MUN 30H
KINGS MTN
MONROE
WADESBORO
ROCKINGHAM-HAMLET 46 S
BROOKS 26
BALLOON NO. 1
N. CAR.
S. CAR.
LAURINBURG-MAXTON 65H
RODDEY 28 S
BELLINGER
LUMBERTON 50H L S
COULBOURN 32 S
ROWE
CHESTER 50H S
HARTSVILLE 25 S
HARTSVILLE 50H
MERSHAW
FLORENCE-146 60 H L S
WOODWARD 30H S
WHITEVILLE
ATLANTA JACKSONVILLE
WASHINGTON JACKSONVILLE
HUGGINS
S CAR 1 D A
FLORENCE 239 (116.1)
SAVANNAH 131
COLUMBIA
RED 16
TO CHARLESTON
MOTBRIDGE
TO TRI CITY
TO SPARTANBURG
KNOXVILLE 107
TO GREENSBORO
TO RALEIGH
NORFOLK 111
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY R QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
SCALE OF MILES
10 0 10 20 30


PITTSBURGH 74 | WASHINGTON 75
TO CHESTER
RICHMOND 260
ALL FACILITIES IN WASHINGTON FLIGHT ADVISORY AREA
FARMVILLE
BLACKSTONE 371 (116.1)
LANGLEY AAF 230 (116.1)
DIXIE HOLLAND
SCOTT
TO WASHINGTON
HOPEWELL
COLONIAL HGTS. 25 S
VA 3 D A
BLACKSTONE AAF - 440' 53 H
RAWLINGS
PETERSBURG 50H
BACONS CASTLE
BUCKROE BEACH
CAPE CHARLES
NAS NORFOLK 356
HAMPTON ROADS
WHITEHURST
ECLIPSE 16
NORFOLK 239 (116.1)
FOR DETAILS IN THE NORFOLK AREA SEE CHART 139
DEEP CREEK 10
VA 2 D A
ALBERTA
EMPORIA 50 H L S
LAWRENCEVILLE 28 L S
HENDERSON
VA.
N. CAR.
CREEDS 25 H
BARCO 40 H
AYDLETTE 14
SOUTH MILLS 18
HALIFAX CO.
CGAS ELIZABETH CITY -10" 72 H L S - 278 (142.74)
WARRENTON 28 L
ROCKY MOUNT 40 H S
WOODVILLE
NAS WEEKSVILLE 524
VA 2 D A
FRANKLIN
TARBORO 30 S
NAS EDENTON 72 H
EDENTON 26
NAF WEEKSVILLE - 7 37 H L S - 3295 (142.74)
MANTEO 32
WILSON 45 H
AVALON 28 S
ZEBULON
GREENVILLE 50 H
WASHINGTON 50 H
MANTEO 30 H
CHARLOTTE 11
RALEIGH 350
INTENSIVE INSTRUMENT TRAINING WITHOUT LIGHTS DURING HOURS OF DARKNESS FROM 10,000 FEET TO 18,000 FEET ABOVE SEA LEVEL WITHIN 60 MILE RADIUS OF MCAS, CHERRY POINT.
SELMA
KINSTON 50 H
GOLDSBORO 25 S
MCAS CHERRY PT 224
SIMMONS-KNOTT 40 H S
N CAR 3 D A
MT OLIVE
CLINTON
NEW BERN 14
SEYMOUR-JOHNSON AAF - 80 50 H
MCAAF OAK GROVE -27 40 H L S - 3295 (142.74)
MCAS CHERRY POINT - 29 76 H L S - 3295 (142.74)
WALLACE
N CAR 3 D A
MCAAF ATLANTIC 35 H
CAMP LE JEUNE OLF -24 50 H - 3295 (142.74)
BURGAW
BEAUFORT MOREHEAD CITY 45 H
MCAAF BOGUE - 22 40 H
INTEN. INSTRUMENT TRAINING WITHOUT LIGHTS DURING HRS. OF DARKNESS FROM SEA LEVEL TO 18,000 FEET.
BLUETHENTHAL 70 H S
PEIFFER
CAROLINA BEACH
SAVANNAH 131
TO SOUTH BOSTON
CHARLOTTE 11
RALEIGH 350
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT RDS.
SCALE OF MILES
10 0 10 20 30

OVER

RADIO

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AYDLETTE FM (Navy)	(-)	FM, 64°, 14	Weeksville NAF
CAMP LE JEUNE OLF (New River)	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
CHERRY POINT (Navy)	224 (NKT)	BMRLZ	(3); 140.58, 142.74
Cherry Point MCAS	3295 (142.74)	CN, 141°, 4	(3); 142.74 (6-19)
EDENTON FM (Navy)	(- - -)	FM, 244°, 26	Weeksville NAF
ELIZABETH CITY CGAS	278 (142.74)	CN	(3), 142.74 (7-19)
NEW BERN FM (Navy)	(- - - -)	FM, 321°, 13.6	Cherry Point MCAS
OAK GROVE MCAAF (Pollocksville)	3295 (142.74)	CN	3105,142.74 (8-18)
SOUTH MILLS FM (Navy)	(- - - -)	FM, 319°, 17.5	Weeksville NAF
WEEKSVILLE (Navy)	524 (NFG)	MRL	500,3105; 142.74 (7-19)
Weeksville NAF-LTA	3295 (142.74)	CN, 319°, 0.5	3105; 142.74 (8-1630)
MANTEO FM (Navy)	(- -)	FM,139°,32	Weeksville NAF

VIRGINIA

BLACKSTONE (AAF)	371 (KT)(116.1)	BMLZ-VDT,133°,5.5	(4); 116.1
DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk
LANGLEY FIELD (Army)	230 (DLY)(116.1)	SBMRAPZ-VDT	(3); 116.1
NORFOLK	239 (NW)(116.1	S3MRLZ-VDT 000°,3.4	(3):116.1
Norfolk NAS (Navy)	356 (NGU)	BMRLZ, 276°,2.9	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.;Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Atlantic MCAAF (N)	0.8 NW,hwy SE	24	35h	INACTIVE
Avalon (Rocky Mount)	3.8 NE,RR W	120	28 S2	80 oct.
Barco Flight Strip	2.4 W,hwy S	19	40h	
(P) Beaufort-Morehead City	1 N, riv W	13	43h	
(P) BLUETHENTHAL	2.4 NNE, RR W	30	70h L5 S4	80,91 oct.Fld lgts prior req.(Wilmington)
(N) Bogue MCAAF (N)	5.6 E Swansboro	22	40h	INACTIVE.
Burgaw	1.2 W,hwy N,S	30	22 S1	80 oct. Pwr line SSE.
(N) Camp LeJeune OLF (New River)(N)	2.5 S Jacksonville	24	50h R1	
Carolina Beach	2.2 NNW,hwy E	32	16 S1	80 oct. (ltd)
(N) Cherry Point MCAS	2.5 SW,riv N	29	76h R2 L5 S6	100 oct. (N)
Clinton	2 N, hwy W	160	24 S6	80 oct.Pole line W
(N) Edenton NAS (N)	3.5 SE	19	72h	INACTIVE
ELIZABETH CITY CGAS	3.5 SE,riv NE	10	72h R1 L6 S4	91, 100 oct.
Franklin(Louisburg)	2 WSW,hwy S	290	20 S4	80 oct. Hi-line S
Goldsboro	1.3 E,hwy S	110	25 S1	80 oct. Pole line NNE
(P) Greenville	1.8 NNW	25	50h	
Halifax Co.(Roanoke Rapids)	3 SW,hwy N	140	25 S1	80 oct.Data not verified.
Henderson	3 S,RR W	490	23 S6	80,91 oct.No sto. Pole lines S. Rnwy data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII)(NC)-Not charted. → NEW OR REVISED DATA.

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Jacksonville (NC)	3.7 NE,RR SE	51	14	
(P) Kinston	4.2 NNW	93	50h	
Manteo	1.5 NW,rd NE	12	30h	
Mt. Olive	1.1 NE,RR E	160	15 S1	80 oct.
(N) Oak Grove MCAAF (Pollocksville) (N)	2.5 NW,riv S	27	40h R1 L S4	91, 100 oct.
Peiffer(Wilmington)	6 ESE,ocean E	10	18 S1	80 oct.Poleline NNE,trees N,S,SW.
ROCKY MOUNT	2.3 N,RR E	114	40h S3	80 oct. Use rnwys only.
Selma	0.5 E,RR W,S	150	19 S4	80 oct. Pole line E.
(A) Seymour-Johnson (Goldsboro) (A)	3 SSE,riv SW	80	50h	INACTIVE
SIMMONS-KNOTT	2.5 SSE	19	40h S1	80, 91 oct. (New Bern)
Tarboro	2 ESE,riv NNW	50	30 S6	80 oct. No sto. Pole line NNE.
Wallace	0.8 N,RR SW	50	16 S6	80 oct. No sto.
★ Warrenton Int,46,JX-RW	1.5 NE,RR W	446	28 L3	
(P) Washington	1.8 N,hwy W	38	50h	
(N) Weeksville NAF(LTA)	2.2 NE	7	37h R2 L5 S4	91, 100 oct. (N)
(P) Wilson	4.2 NW,hwy E	161	45h	
Woodville (Elizabeth City)	9 WSW	15	19 S6	80 oct.No sto.Pole line S, SW.Data not verified.
Zebulon	3.5 NW,hwy E	324	16 S1	80 oct.

VIRGINIA

Alberta	1.5 E,RR SW	380	17 S2	80 oct. Trees WSW.
(A) Blackstone AAF (A)	2.5 ESE,hwy N	440	53h R1	Closed to all acft. INACTIVE
Clarksville-Finchley	5 ENE,RR S	450	13	House, trees NW. (NC)
Colonial Heights (Petersburg)	2 NNE,RR W	60	25 S1	80 oct.
Creeds	1.5 E,bay E	10	25h	
Emporia	3 E,rd S	127	50h L5 S1	80,91 oct. Trees sur fld.
Hopewell	3.3 E,riv N	20	24 S6	80 oct.
Lawrenceville,49B, JX-RW	3.8 ENE,RR N	317	28 L3 S6	80 oct.
Petersburg	6.2 WSW,RR N	190	50h	
Scott (Williamsburg)	1.3 NNW,RR SW	90	20 S2	80 oct. Pole line SW,WNW.
William & Mary College (Williamsburg)	3 NNW,RR SW	105	29	20-60' trees NE,SW,W. (NC)
Dixie Holland (Cape Charles)	1.5 ENE;hwy S		22 S1	80 oct.Unverified.
Farmville	2.5 NW,riv N	325	20 S6	80 oct.Hill W.

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALICE	224(EZ)(116.1)	SBRAZ-VDT,73°,3.3	(4);116.1
BROWNSVILLE (International Arpt)	388(JI)(116.1)	SBRAZ-VDT,157°,2.4	(3);116.1
CABANISS NAAS,(Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
CLIFF MAUS (Corpus Christi)	278(118.3)	C	(4);118.3,126.18,140.1,131.9
CORPUS CHRISTI (Cliff Maus Field)	382(CR)(116.1)	SBMPLZ-VDT,138°,2.9	(3);116.1
Corpus Christi (Navy)	248 (NGP)	MLZ	(3);142.74
Corpus Christi NAS	248 (142.74)	CN;350°,3.3	(3);142.74
Corpus Christi NAS (Seapl)	2870(142.74)	CN	3105;6210;142.74
CUDDIHY NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
FALFURRIAS FM	(- -)	FM, 163°, 35.5	Alice
GREGORY FM (Navy)	(-)	FM, 350°, 18	Corpus Christi NAS
INTERNATIONAL ARPT (Brownsville)	278 (126.18) (118.7)	C(ILS);157°,2.4	(4);126.18,118.7
LAREDO (AAF)	206(LL)(116.1)	SBRAZ-VDT,137°,3.3	(4);116.1
LOS FRESNOS FM	(- - - -)	FM, 338°, 8.9	Brownsville
MERCEDES FM	(- - -)	FM, 282°, 29.5	Brownsville
PALACIOS	350(UX)(116.1)	BMLZ-VDT,118°,1.7	(4);116.1
PLEASANTON FM	(- - -)	FM, 174°, 44.2	San Antonio
RODD NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
WALDRON NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. REAR	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
INTERNATIONAL, TEXAS	110.3 ---- ..		170° Mag.	IM	MM ·····(.66)	OM --(4.34)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

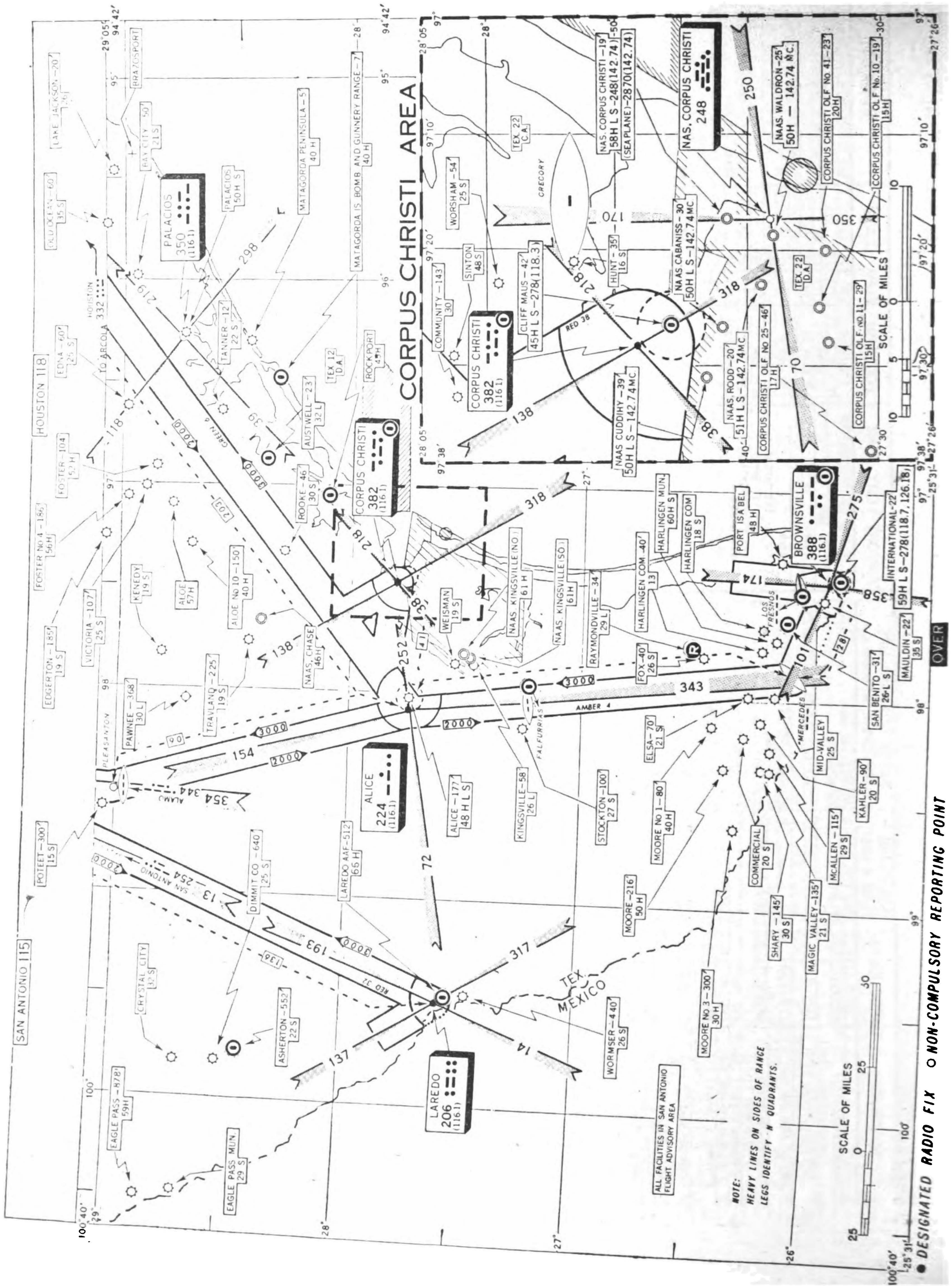
AIRPORTS — TEXAS

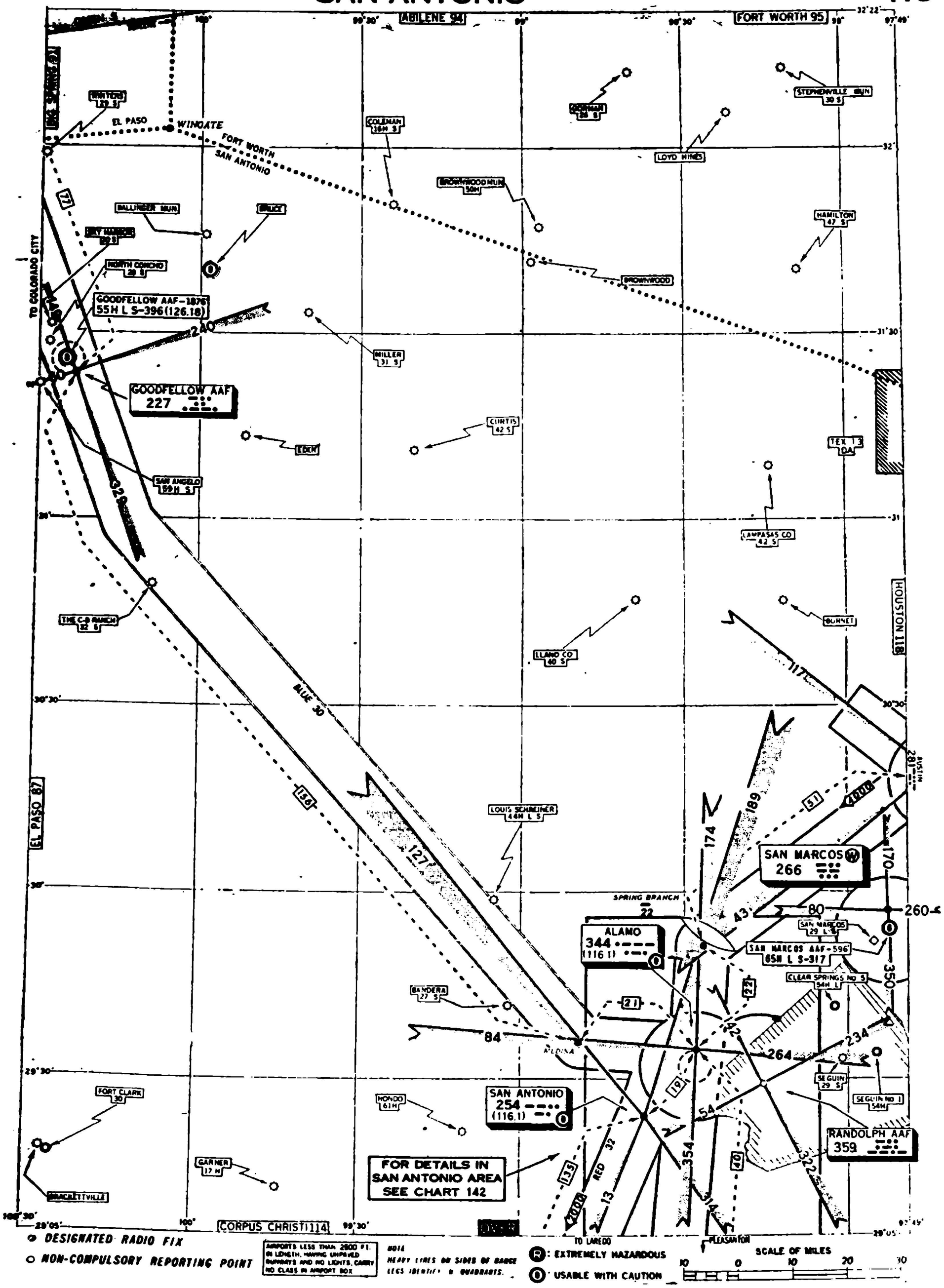
AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Alice	3.3 ESE;RR N	177	46h R1 L5 S6	80,91 oct.
Aloe (Victoria)	6 WSW;RR SE	107	57h	
" #10 (Victoria)	19.8 WSW	150	40h	
Asherton	1 S;RR NE	552	22 S1	80 oct.Poles N;trees sur fld.
★ Austwell Int,5A,CR-HU	2.1 SSW;bay NE	23	32 L2	Fence around fld.
Bay City	2 SSW;RR N	50	21 S6	80 oct.No sto.Pole line E.
Brazosport (Velasco)	1 N;hwy SW	6	24 S1	80 oct.Data not verified.
(N) Cabaniss NAAS (Corpus Christi)(N)	6.2 SSW;RR NE	30	50h R1 L5 S4	91 oct.
(N) Chase NAAS (Beeville)(N)	5.6 ESE;rd N	186	46h R1	INACTIVE.
Chuhadera Ranch Emerg. Strip (Laredo)(NC)	60 NW	630	33 L1	
(N) CLIFF MAUS (Corpus Christi)	2.5 SW;RR N	42	45h R2 L5 S6	80,91 oct.No storage.
Commercial (Edinburg)	1 W;RR SE	90	20 S1	73 oct.Pole line NW,NNW.
Community (Sinton)	2 W;RR SE	143	30	
(N) Corpus Christi NAS (N)	9.5 SE	19	58h R2 L5 S6	91,100 oct.NATS,NAFC.
(N) " OLF #10 (N)	15 S	19	15h	11 SSW Aberdeen.
(N) " OLF #11 (N)	16 SSW	29	15h	13 SSW Aberdeen.
(N) " OLF #25 (N)	23.5 SSW	46	17h	12.3 ESE Bishop.
(N) " OLF #41 (N)	16 SSE	23	20h	11.8 SSE Aberdeen.
Crystal City	1.8 N;RR W	600	32 S1	80,91 oct.Pole line NE,NW.
(N) Cuddihy NAAS (Corpus Christi)(N)	7.8 SW;crk S	32	50h R1 L5 S4	91 oct.
Central Valley(Mercedes)	1.5 NE;hwy S	62	31h S6	80,91 oct.Data unverified.

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Dimmit Co.(Carrizo Sprgs)	2.8 E;hwy N	640	25 S1	Ltd 80 oct.Pole line ends strps.
Eagle Pass	10 N;RR N	878	59h	
" mun.	1.3 E;hwy N	774	29 S2	80 oct.ARPT OF ENTRY.
Cuero	3.1 N;RR SE	195	53	
Edna	1.5 ENE;RR NW	60	25 S1	73 oct.Live stock on fld.
Elsa	1 SSE;RR N	70	21 S6	73 oct.Crop dusters.
Foster (Victoria)	6.5 NE;RR S	104	52h	
" #4 (Victoria)	12.5 NNW	186	56h	
Fox (Raymondville)	1 WSW;RR S	40	26 S2	73,80 oct.Poles W,SE.
Freer (NC)	3.8 NNW;hwy E	375	28	Trees sur fld.
Harlingen, com.	1.8 SSW;hwy E	41	18 S1	73 oct.
" com.	5 NW;RR SW	40	13	Pole line S.
" mun.	3.5 NE;rd S	35	60h L5 S4	80,91 oct.Lgts prior req.
Hunt (Portland)	2 WNW;RR ESE	35	16 S5	80 oct.
Indianola (Magnolia Beach)	2 SW;hwy N	17	34	PRIVATE.
(P) INTERNATIONAL (Brownsville)	4.5 E;hwy N	22	59h R3 L6 S6	73-100 oct.ARPT OF ENTRY.
Kalher (Alamo)	4 NNE;RR W	90	20 S1	73 oct.Poles sur fld.
Kenedy	1.4 ESE;RR N	270	19 S2	80 oct.
★ Kingsville Int,11,JI-FV	3.5 S;RR W	58	26 L3	
(N) " NAAS (North) (N)	3.5 ESE;hwy NW	47	61h	INACTIVE.
(N) " NAAS (South) (N)	3.5 SE;hwy W,N	51	61h	INACTIVE.
Lake Jackson (Freeport)	9.5 NW;hwy E	20	26	Cattle on fld.Trees SW.
Lake Mathis (Mathis)(NC)	5 WSW;RR SE	161	20	
La Laja (Dolores)(NC)	1.5 NNE;riv SW	475	18	PRIVATE.15-20' brush W,S.
(A) LAREDO AAF (A)	3.5 NE;hwy NNE	512	66h R1 L5	INACTIVE.B2 lgts for Airlines.
Los Fresnos	0.8 SSE;RR W	35	24 S1	73,80 oct.Pole line W
McAllen	1.6 SSW;hwy N	115	29 S6	73,80 oct.Poles E,NE.
Magic Valley (Mission)	1.5 SSW;lake W	135	21 S6	73 oct.No sto.Poles E.
(A) Matagorda Island (A)		7	40h	9 SSW Port O'Conner.INACTIVE.
Matagorda-Peninsula (Matagorda)	6.5 E Port O' Conner	5	40h	
Mauldin (Brownsville)	4.4 NNW;RR W	22	35 S6	80,91 oct.Poles W.
Mid-Valley (Weslaco)(NC)	1.7 NE;RR W	70	25 S1	80 oct.Pole line NW,SW.
Moore (Mission)	12 N;RR E	216	50h	
" #1 (Mission)	10 N Edinburg	80	40h	
" #3 (Mission)	5 N LaGrulla	300	30h	
Old Ocean	1 ENE;hwy N	60	35 S1	80 oct.Cattle on fld.
Palacios	2.7 WNW	13	50h R1 S1	80 oct.
★ Pawnee Int,22,JI-FV	5 WNW;RR W	368	30 L3	
Poteet	0.6 SW;RR E	300	13 S2	73 oct.
★ Raymondville Int,5,JI-FV	3.5 NNE;RR W	34	29 L3	
(I) Rockport	4.3 N;bay W	23	45h	
(N) Rodd NAAS (Corpus Christi)(N)	9.8 S;RR NE	20	51h R1 L5 S4	91 oct.No storage.
Rooke (Refugio)	3.2 WSW;RR E	46	30 S1	73 oct.Cattle on fld.Twr NW.
San Benito,2,JI-FV	1.5 E;RR SW	31	26 L3 S6	73,80 oct.
Shary (Mission)	1 NW;RR E	145	30 S4	73,80 oct.
Sinton	1.3 E;RR NW	27	48 S6	80,91 oct.No storage.
Stockton (Falfurrias)	2 NW;RR E	100	27 S1	80 oct.Lake SW.
Tanner Sea & Land Plane Base (Port Lavaca)	3 S;hwy S	12	22 S1	80 oct.Pwr line sur fld.
Travland (Beeville)	2 NW;RR E	225	19 S2	80 oct.Poles E.
Victoria	5.5 N;hwy SW	107	25 S6	80 oct.
(N) Waldron NAAS (Corpus Christi) (N)	12 SSE;hwy NNE	25	50h R1	INACTIVE.
Weisman (Kingsville)	2.5 NNE;RR S	60	19 S4	Ltd 80 oct.Poleline S,SW,SE.
Wormser (Laredo)	4 SE;hwy W	440	26 S1	80,91 oct.
Worsham (Taft)	0.8 ENE;hwy SW	94	25 S6	80 oct.
Port Isabel	1.5 S	12	4h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA.

CORPUS CHRISTI




ABILENE 94
FORT WORTH 95
32°22'
99°30'
99°
98°30'
98°
97°49'
32°
31°30'
31°
30°30'
30°
29°30'
29°05'
100°
99°30'
WINTERS 29 S
EL PASO
WINGATE
FORT WORTH
SAN ANTONIO
COLEMAN 16M S
GORMAN 28 S
STEPHENVILLE MUN 30 S
LOYD HINES
BROWNWOOD MUN 30M
BROWNWOOD
HAMILTON 47 S
BALLINGER MUN
BRUCE
NORTH CONCHO 29 S
TO COLORADO CITY
GOODFELLOW AAF-1876
55H L S-396(126.18)
240
MILLER 31 S
GOODFELLOW AAF
227
CLINTIS 42 S
EDEN
TEX 13 DA
SAN ANGELO 59H S
LAMPASAS CO 42 S
HOUSTON 118
THE C-B RANCH 32 S
LLANO CO 40 S
BURNET
BLUE 30
LOUIS SCHREINER 46M L S
EL PASO 87
SPRING BRANCH
22
ALAMO
344
(116.1)
SAN MARCOS
266
SAN MARCOS 29 L S
SAN MARCOS AAF-596
65H L S-317
CLEAR SPRINGS NO 5 54H L
BANDERA 27 S
84
ALAMO
SEGUIN 29 S
SEGUIN NO 1 54M
SAN ANTONIO
254
(116.1)
RANDOLPH AAF
359
FORT CLARK 30
BRACKETTVILLE
HONDO 61M
GARNER 17 M
FOR DETAILS IN SAN ANTONIO AREA SEE CHART 142
CORPUS CHRISTI 114
TO LAREDO
PLEASANTON
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
AIRPORTS LESS THAN 2800 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY R QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ ALAMO (San Antonio)	344(JR)(116.1)	MLZ-VDT	(3); 116.1
GOODFELLOW (San Angelo) (Army)	227 (DIP)	BMRLZ	(3)
Goodfellow Field	396 (126.18)	CA; 329°, 2.5	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
SAN ANTONIO (Kelly)	254(ZN)(116.1)	SBRAZ-VD, 107°, 1.8	(4); 116.1
SAN MARCOS (Army)	266 (DMS)	MRLWZ	
San Marcos AAF	317	CA; 170°, 4.5	(3); 266 (days only)
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

AIRPORT . CITY . NAME	CLASS	ELEV.	LOCATION	REMARKS
Ballinger	2.5 NW;RR E	1710	20 S1	80 oct.Pole line SSW,SSE.
Bandera	3 SE;hwy NNE	1125	27 S6	80 oct.Trees E.
Brackettville	2.6 W;hwy N	1105	17 S1	Ltd 80 oct.
Brownwood	1 S;hwy W	1310	22	Poles SE,ESE,E.
" mun.	6.3 NNE;RR S	1386	50h	
→ Bruce (Ballinger)	4.5 SSW;RR NW	1731	23h	Allway: 7497 x 5280'.
Burnet	2 NE;RR W	1325	21 S1	80 oct.Pole line SW.
C-B Ranch (Ft.McKavett)	1.5 W;rd S	2150	32 S1	80 oct.Livestock on fld.
(A) Clear Springs #5 (New Braunfels) (A)	4.8 E;riv SW	640	54h L	Ctc lgts only.
Coleman	1.7 NE;RR S	1685	16h S6	80,91 oct.Use rnwys only.
Comanche (NC)	1.7 NNW;hwy SW	1500	14	
Curtis (Brady)	3 N;hwy SE	1830	42 S1	Ltd fuel.
Eden	1 NW;hwy E	2050	15 S1	73 oct.Trees NE,SW.
(A) Fort Clark(Brackettville)	1.5 SW;rd E	1105	30	(A)
Garner (Uvalde)	2.7 E;hwy N	930	17h S1	80 oct.
(A) Goodfellow (San Angelo)(A)	3 SE;rds N,W	1876	55h R2 L5 S6	73,91,100 oct.JP-1.
Gorman	1 S;RR NE	1400	26 S2	80 oct.Poles NNE.
Hamilton	2.3 SSW;hwy E	1250	47 S6	80 oct.Fence sur fld.
Hondo	2.1 NW;RR S	929	61h	
Lampasas Co. (Lampasas)	6 NW;RR S	1480	42 S2	80 oct.
Llano County (Llano)	2.4 NNE;riv NE	1029	40 S1	73 oct.
(P) Louis Schreiner(Kerrville)	3.9 SE;RR SW	1590	44h L5 S6	80 oct.
Loyd Hines (Dublin)	1.3 NW;RR SW	1260	18 S1	73 oct.Poles NW,SW,SE.
Mason County (NC)	3.2 ESE;hwy N	1500	44	
Miller (Leaday)	1 S;riv W	1525	31 S6	73 oct.No storage.
North Concho (San Angelo)	1.7 WNW;RR E	1850	28 S4	80 oct.Poles sur fld.
Riomedina (Castroville)	4.5 N;riv W	855	45	(NC)
→ SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S6	80,91 oct.
→ (A) San Marcos AAF (A)	5 E;riv W	596	65h R2 L5	
★ " Int,31B,JI-FV	2 SE;hwy N	577	29 L3 S6	73,80 oct.Pole line NE.
Schneider (Seguin)(NC)	2.2 WNW;RR N	520	23	Pole line N.
Seguin	3.3 WSW;riv E	400	29 S1	73,80 oct.Pole line NW.
(A) " #1 (A)	3 E;rd N	530	54h	
Sherrill (Rock Springs)(NC)	4 W;hwy S	2400	21	Cattle on fld.
Sky Harbor (San Angelo)	4.6 NNW;RR SW	840	30 S1	80 oct. Pole line W,NW.
South Coleman (Coleman)	1 S;hwy NW	1710	21	Closed - not maintained.(NC)
Stephenville	1.5 E;hwy S	1310	30 S6	80 oct.
White (Brady) (NC)	10 W;RR N	1550	73	
Winters	2 NW;RR E	1860	29 S1	73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCOLA FM	(-)	FM, 226°, 15	Houston
AUSTIN (Robert Mueller Arpt)	281(XN)(116.1)	SBMRLZ-VDT,117°,2	(3); 116.1
BERGSTROM FIELD (Austin)	396 (126.18)	CA	(4); 126.18
HOUSTON	332(HU)(116.1)	SBRAZ-VDT	(3); 116.1
Houston Airport	278 (126.18) (118.5)	AC; 309°, 2.5	(4); 131.9,126.18,118.5
HOUSTON LFM	(- - - -)	LFM, 309°, 5.5	Houston
NAVASOTA (Int)	212(NT)(116.1)	BMRL-VDT,180°,1.3	(4);116.1
RICHMOND	391 (UT)	MRLW	
ROBERT MUELLER ARPT. (Austin)	272 (119.7)	C	(4);118.7,126.18,131.9,140.1
WACO (Mun)	385(WC)(116.1)	SBRAZ-VDT,9°,2.6	(4);116.1
WEBSTER FM	(- - - -)	FM, 129°, 9.3	Houston
YOAKUM (Int)	236 (YK)	HW-T,352°,2.8	

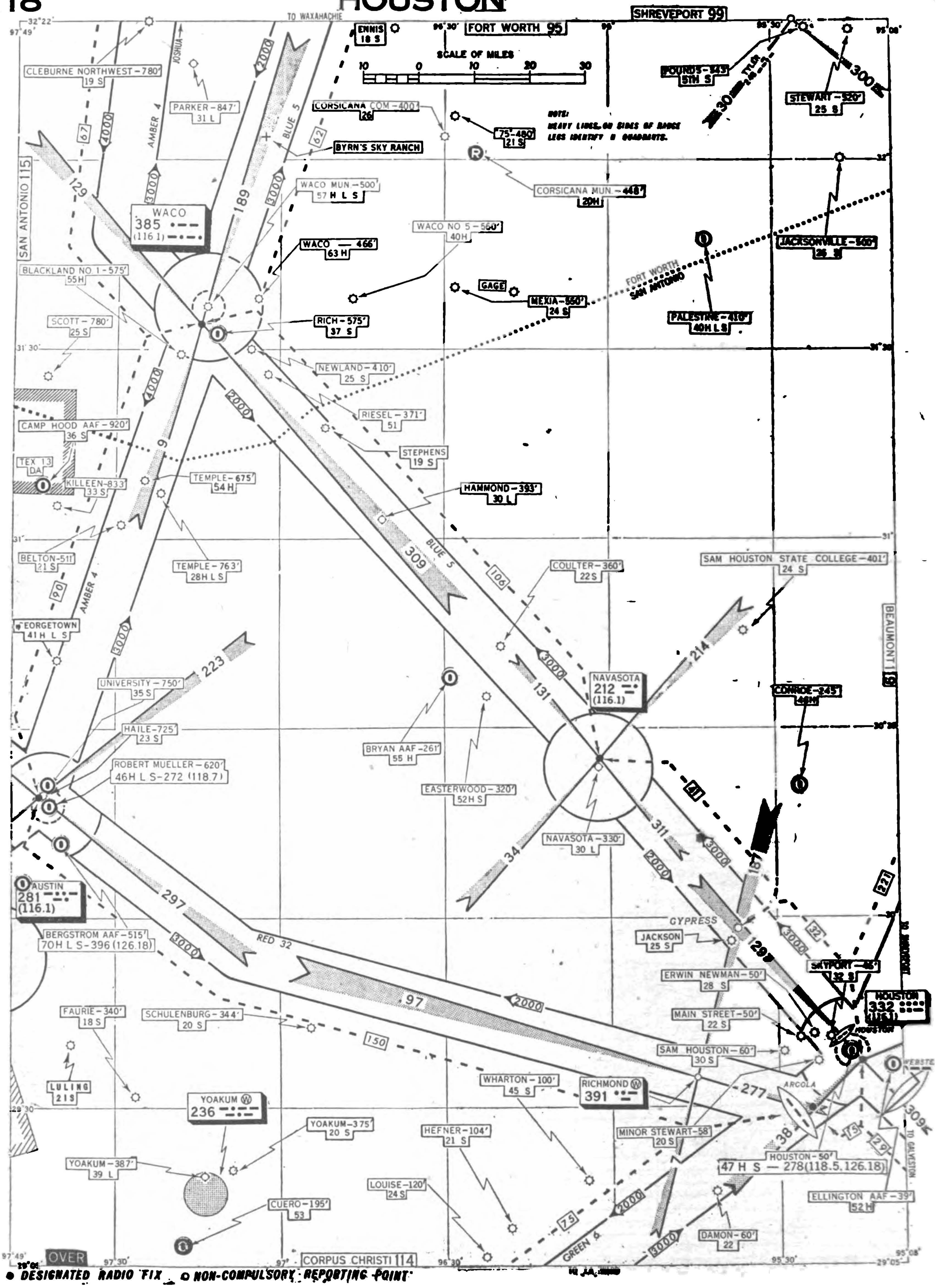
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Belton	1.6 WSW;hwy N	511	21 S1	73,80 oct.No storage.
(A) Bergstrom (Austin) (A)	7 SE	515	70h R1 L5 S6	73,100 oct.No storage.Pole NE,NW.
Blackland #1 (Waco)	11 WSW;RR S	575	55h	
(A) Bryan AAF (A)	7 SSW;riv SSW	261	55h	INACTIVE.
Cameron Airpark (NC)	1.7 N;RR,hwy W	402	29	Bldg NNE
(A) Camp Hood Landing Field (Killeen)	2 NE	920	36 S1	CLOSED. (A)
Cleburne Northwest (Cleburne)	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(P) Conroe	3.5 NE;hwy W	245	46h	
Corsicana, com.	2.8 SW;bet rds	400	26	
" mun.	5.6 SE;RR E	448	20h	UNUSABLE.Acft parked entire fld.
Coulter (Bryan)	4 NE;hwy NW	360	22 S6	80 oct,5' fence SW.
Cuero	3.1 N;RR SE	195	53	
Damon	3 ESE;hwy WSW	60	22	4'fence sur fld.
(P) Easterwood (College Station)	2.8 SW	320	52h S6	80 oct.
(A) Ellington (Houston)(A)	15 SE;RR W	39	52h	INACTIVE.
Ennis	1.5 NW;RR E	540	18 S4	Ltd 73 oct.No storage.
Erwin-Newman (Houston)	5 SSW;hwy N	50	28 S6	80 oct.
Faurie (Gonzales)	2 NNE;hwy E	340	18 S2	80 oct.Trees N,S.
Georgetown	3.3 N;hwy E	789	41h L5 S4	80,91 oct.
Haile (Austin)	4.1 NE;RR E	725	23 S6	80,91 oct.Poles ESE.
★ Hammond Int,16,GS-WC	2.5 SSE;RR W	393	30 L3	
Hefner (El Campo)	1.5 WSW;RR SE	104	21 S2	80 oct.Pole line S,SE.
HOUSTON	9 SSE;hwy W	50	47h R2 L5 S6	73,80,91,100 oct.
Jackson (Cypress)	4 SE;hwy S	145	25 S6	80 oct.
Jacksonville	3 N;RR E	500	26 S6	73,80 oct.Pole line ENE.
Killeen	3.6 SE;RR NNE	833	33 S1	73 oct.Sign board N.
Louise	1.6 E;RR W	120	24 S1	Ltd 80 oct.Pole line N,S.
Luling	1.1 SE;hwy NE	418	21 S1	80 oct.Pole lines sur fld.
Madisonville Emergency (NC)	0.8 NW;hwy E	400	18	
Main Street (Houston)	6.5 SW;hwy SE	50	22 S6	80 oct.
Mexia	1 SE;RR NW	550	24 S2	80 oct.
Minor Stewart (Houston)	10 S;RR W	58	20 S6	80 oct.
★ Navasota Int,10,GS-WC	2.5 ENE;RR NNW	330	30 R1 L3	
Newland (Waco)	4.5 SSE;RR NE	410	25 S6	80,91 oct.
Palestine	4.5 WNW;hwy N	410	40h L5 S6	80,91 oct.
★ Parker Int,48,JI-FV	0.5 N;hwy W	547	31 L3	
(P) POUNDS (Tyler)	5.5 W;hwy N	543	51h R1 L5 S1	80,91 oct.Ctc lgts prior req.
Rich (Waco)	3 WSW;hwy SW	575	37 L4 S6	73,80,91 oct.Poles SSE,SE.Fld lgts prior req.
Riesel (Waco)	10.5 SE	371	51	
ROBERT MUELLER (Austin)	3.5 NE;RR SW	620	46h R2 L5 S6	80,91,100 oct.
St. Edwards (Austin) (NC)	3.5 S	700	22	
Sam Houston (Houston)	10.5 SW;RR S	60	30 S6	73,80 oct.
Sam Houston State College (Huntsville)	2.5 NW;RR E	401	24 S2	80 oct
Schulenburg	2.2 N;hwy W	344	20 S4	73 oct.Pole line W.
Scott (Gatesville)	1.9 E;hwy N	730	25 S1	80 oct.Pole line NW.
Seventy-Five (Corsicana)	1.8 N;RR W	480	21 S6	73 oct.No storage.Poles NW.
Skyport (Houston)	5 S;hwy N	46	32 S4	80 oct.
Sportsman (Houston)	6 ENE;RR N	60	30 S4	80 oct.
Stephens (Marlin)	2 ESE;RR N,SSW	318	19 S2	80 oct.Cattle on fld.Pole W.
Stewart (Tyler)	2.5 E;hwy N	520	25 S6	80 oct.Poles W.
Taylor	2.2 WNW;RR S	529	24 S4	73 oct.
Temple	5.5 NW;rd SW,NW	675	54h	
Temple 40,JI-FV	2 NNW;hwy SW	763	38h L3 S4	73,80 oct.
University (Austin)	6 NNE;RR W	750	35 S6	80 oct.
Waco	7 NNE;bet RRs	466	63h	
WACO MUNICIPAL	6 NW;lake S	500	57h R1 L5 S4	80,91 oct.
" #5 (Prairie Hill)	2 S;hwy N	560	40h	
Wharton	1.8 ENE;RR N	100	45 S2	80 oct.
Yoakum	4 N;hwy W	375	20 S6	80 oct.
★ " Int,7,JR-HU	5 NW;hwy S	387	39 L3	
Gage (Teague)	1.7 N		22 S2	80 oct.Data unverified.
Byrn's Sky Ranch (Hillsboro)	5.8 NE	820	25 S6	80 oct. Data unverified.

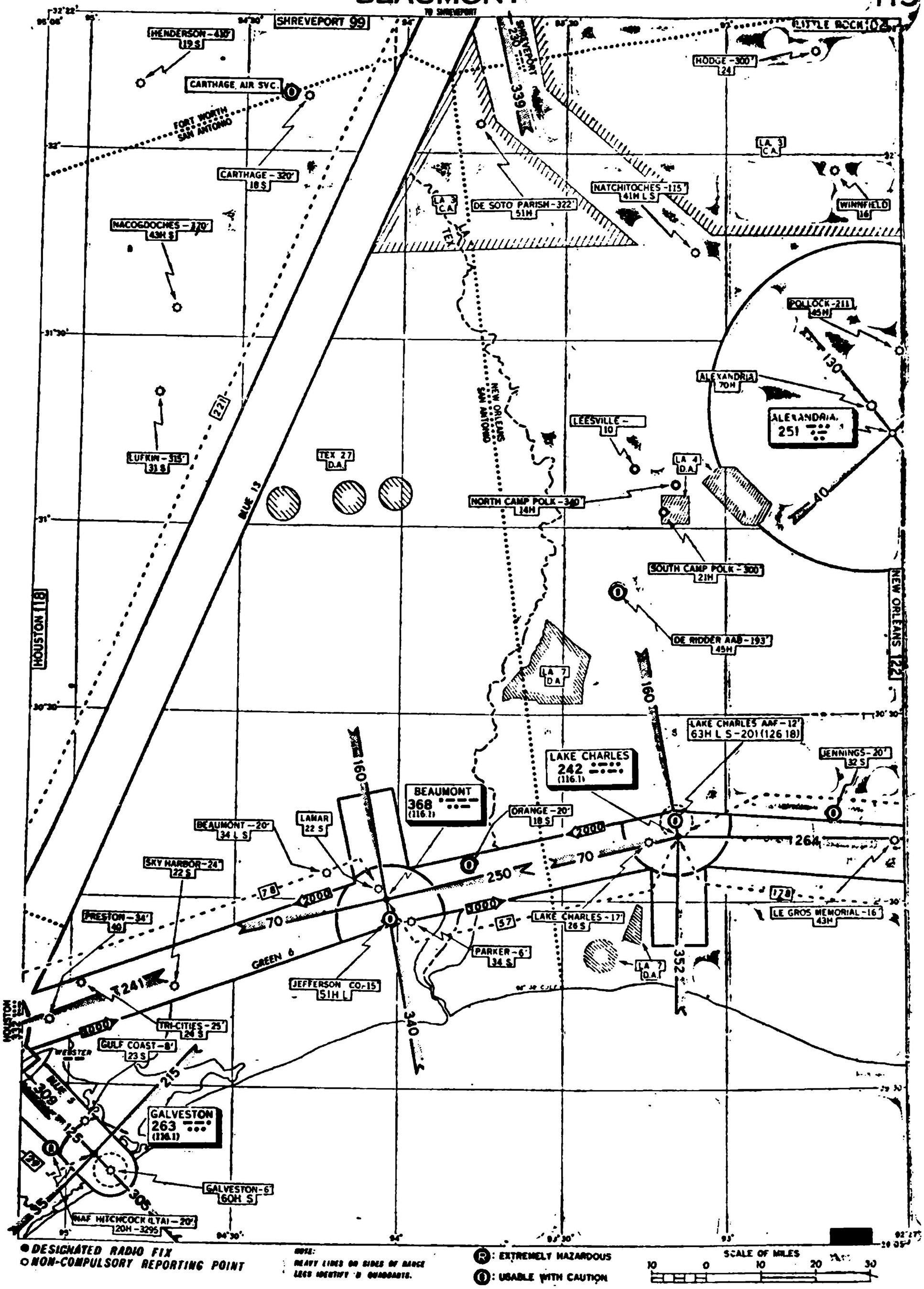
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

HOUSTON



● DESIGNATED RADIO FIX ○ NON-COMPULSORY REPORTING POINT

BEAUMONT



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF BLACK LEGS IDENTIFY 'B' BOUNDARIES.

Ⓡ: EXTREMELY HAZARDOUS
Ⓘ: USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

BEAUMONT

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	251 (DAI)	MRAWZ,310°,5.7	(4)
LAKE CHARLES	242(LC)(116.1)	SBRAZ-VDT	(4);116.1
Lake Charles AAF	201 (126.18)	CA:340°,2.3	(4) only

TEXAS

BEAUMONT (Jefferson Co.)	368(JU)(116.1)	EMRLZ-VDT,160°,3.8	(4);116.1
GALVESTON	263(GS)(116.1)	SBMRLZ-VDT,125°,4.2	(4);116.1
HITCHCOCK NAF-LTA-HTA	3295	CN	3105,6390 (days)
WEBSTER FM	(- -)	FM,129°,9.3	Houston

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — LOUISIANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ALEXANDRIA	5.5 W;riv 2N	86	70h	
De Quincy (NC)	1.5 SW;RR NW	78	24	Cattle on fld.Trees N,E.
(A) De Ridder AAB (A)	3.5 WSW;RR S	193	45h	INACTIVE.
(P) De Soto Parish(Mansfield)	4.3 NW;hwy S	322	51h	
Hart (Many)(NC)	1.8 SSW;RR E	242	24	Trees NNE.
Hodge	0.5 ENE;hwy NW	300	24	Cattle on Fld.
Jennings	1.4 NNW;RR SW	20	32 S2	80,91 oct.Pole line E.
Lake Charles	5.2 SSW;hwy N	17	26 S6	80 oct.Pole line N. Rnwy data unver
(A,N) LAKE CHARLES AAF (A)	4 ESE;RR NE	12	63h R2 L5 S6	91,100 oct.JP-1.No storage.
(A) Leesville Landing Strip	2 NW		10	L-type acft. (A)
Le Gros Mem'l (Crowley)	6.5 WSW;RR N	16	43h L5	Ctc lgts prior req.
McArthur (Alexandria)	2,8 W;hwy E,N	86	12 S1	Ltd 80 oct.Trees N,S.
(P) Natchitoches	1.5 SSW;RR E	115	41h L5 S6	80 oct.,ltd 90 oct.Ctc lgts prior req. No ben.
(A) North Camp Polk Landing Strip (Camp Polk)(A)	6 NE	340	14h	
Oakdale (NC)	3 W;hwy N	123	27	Trees WSW,ENE.
Pollock	4.5 SW	211	45h	
(A) South Camp Polk Landing Strip (Camp Polk)(A)	Adj E	300	21h	
Winnfield	3 NW;hwy E	600	16	Trees N.

TEXAS

Angelina Co. (Lufkin)(NC)	7.5 SSW;RR W	288	42	Cattle on fld.
Beaumont	6.8 W;bet RRs	28	34 L3 S6	73,80 oct.Fld lgts prior req.
Carthage	2 E;hwy N	320	18 S1	Ltd 80 oct.
" Air Service	1.3 W;hwy N,S	310	30 S2	80;91 oct. Pole line N.Trees E,W.
GALVESTON	3.5 WSW;Gulf S	6	60h R1 S6	80,91 oct.
Gulf Coast (Texas City)	2.8 WNW;hwy N	8	23 S6	Ltd 80 oct.No storage.Pole line N.
Henderson	2.1 WNW;hwy S	410	19 S2	73 oct.
(N) Hitchcock NAF(LTA)(N)	2.3 SW;RR ENE	20	20h R1	
Humphrey (Goose Creek)(NC)	4 NNE;RR E	34	24	Pole line NW,W.
(P) Jefferson Co. (Beaumont)	9.8 SSE;hwy NE	15	51h R1 L5	
Lamar (Beaumont)	4 SE;riv NE	17	22 S4	80 oct.No sto.Poleline N,S.
Lufkin	2 NW;hwy N	315	31 L1 S6	73,80 oct.
Nacogdoches	4 WSW;hwy E	370	43h S5	80,91 oct.
Orange	2.6 W;RR S	20	18 S1	73 oct.
Parker (Port Arthur)	4 NW;RR NE	6	34 S6	80 oct.
Preston (Houston)	2.5 WNW LaPorte	34	40	
Richter (Kirbyville)(NC)	1.5 S;RR E	175	16	
Sky Harbor (Anahuac)	0.3 S;hwy N	24	22 S1	80 oct.
Tri-Cities (Goose Creek)	2.6 N;RR E	25	24 S2	80 oct.Pole line SE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA.

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARATARIA FM	(- -)	FM, 171°, 20	New Orleans
BATON ROUGE (Harding)	347 (RX)	MRLWZ, 128°, 3.4	
LAFAYETTE	227 (UG)(116.1)	MHVT	(4): 116.1
LA PLACE FM	(- - -)	FM, 271°, 16.8	New Orleans
MADISONVILLE FM	(- - - -)	FM, 323°, 32	New Orleans
MOISANT AIRPORT (New Orleans)	278 (118.3)(126.18)	C (ILS)	(4): 131.9, 118.3, 126.18
NEW ORLEANS (Moisant)	338 (NO)(116.1)	SBRAZ-VDT, 271°, 3.2	(3):116.1
New Orleans Airport	382 (126.18)	CA	(4) only.
New Orleans NAS	323 (142.74)	CN	(3); 142.74 (8-sunset)
NEW ORLEANS FM	(-)	FM, 63°, 11	New Orleans

MISSISSIPPI

JACKSON AIRPORT	278(126.18)(118.7)	C	(4):126.18,118.7,131.9

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
MOISANT, LA.	109.9	333.8	100° Mag.	IM ·····(.04)	FM	OM	--(4.5)
					MM/K	OM/K	

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

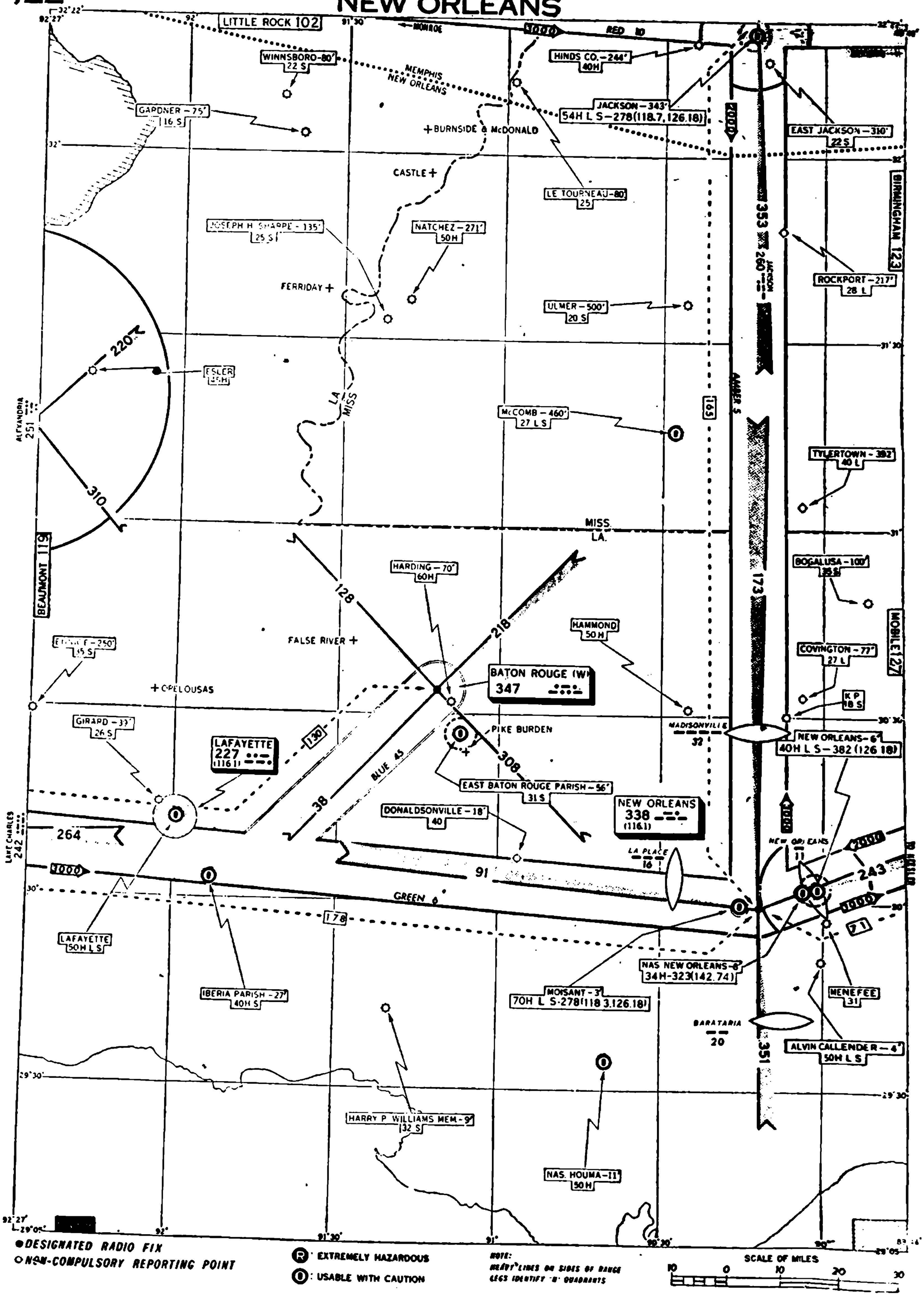
AIRPORTS — LOUISIANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alvin Callender (New Orleans)	9 SSE; RR E	4	50h L5 S4	73, 80, 91 oct.
Bogalusa	2.4 N; RR E	160	35 S6	73, 80 oct. No sto. Pole S.
Burnside & McDonald (Newellton)	1 WSW	77	50	Data not verified.
Castle (St. Joseph)	2 N	75	20 S4	80 oct. No sto. Data not verified.
Chapman (New Orleans)(NC)	8.5 NE; lake N	4	22	15' trees NW. Cattle on field.
* Covington Int, 3, NO-LS	6 NNE; hwy W	77	27 L3	Pole line W.
→ * Donaldsonville Int. 26, MU-NO	3 ENE; hwy W	18	40 L3	Levee W.
East Baton Rouge Parish (Baton Rouge)	4 E; hwy N, E	56	31 S4	80, 91 oct. Pole line S.
Esler (Alexandria)	11 NE; Bayou S	92	45h	
Eunice	1.7 W; hwy N	250	35 S2	80 oct.
False River (New Roads)	1.5 W	30	25 S1	80 oct. Data not verified.
Ferriday	1 N	55	18	Data not verified.
Gardner (Gilbert)	1 E; hwy S	75	16 S1	Ltd 73 oct.
Girard (Lafayette)	2.5 NW; hwy E	39	26 S6	80, 87 oct. Obsts sur fld.
Grand Isle (NC)	2.6 NE; hwy NW	4	22	
Hammond	2 ENE; RR S	40	50h	
HARDING (Baton Rouge)	5.8 NNE	70	60h	E of river bend.
Harry P. Williams Mem'l(Patterson)	2 WNW; bet RR,hwy	9	32 L2 S2	73 oct. No ben. Lgts prior req. Pole line NW.
(N) Houma NAS (LTA)(N)	3.1 ESE; RR NE	11	50h	INACTIVE.
Iberia Parish (New Iberia)	5 NW; RR NE	27	40h L1 S6	73-91 oct. Ben prior req.
K-P (Covington)	1.6 NW; RR S	27	18 S2	80 oct.
Lafayette	1.5 SE; RR W	40	50h R1 L5 S1	91 oct. Pole line S.
Menefee (New Orleans)	5.2 E; riv S	1	31	Pole line S.
(E) MOISANT INTERNATIONAL(New Orleans)	11 W; riv S	3	70h R3 L5 S1	80,91,100 oct. Avail. only to Army, Navy, Airlines.
(A) New Orleans	6.5 NNE; RR S	8	40h R1 L4 S4	91, 100 oct; 100 oct Govt contract.
(N) New Orleans NAS (N)	4.6 N; on lake	7	34h R1	Tower NE.
Opelousas	1.5 NE	35	18	Data not verified.
Pike Burden (Baton Rouge)	5 SE	35	50 S1	80 oct. Data not verified.
Texaco (New Iberia)(NC)	2.6 N; hwy W	21	18	Poles W, WSW. Cattle on fld.
Winnsboro	1.2 ESE; RR SW	80	22 S1	80 oct.

MISSISSIPPI

East Jackson (Jackson)	3.1 SSE; hwy NW	310	22 S6	80 oct. Trees N.
Hinds County (Jackson)	12.8 W	244	40h	
(A,N) JACKSON	3 NW; RR SW	343	54h R2 L5 S6	80, 91, 100 oct. Tank, stack E.
Joseph H. Sharpe (Natchez)	1.8 ESE; RR S	135	25 S2	73 oct.
LeTourneau (Yokena)	2.5 NW; riv W	80	25 L2 S4	No fuel. Lgts prior req. Caution - wet.
McComb	1.3 NE; hwy E	460	27 L3 S6	80,91 oct. No ben; lgts prior req. Obsts sur fld.
(P) Natchez	7.1 ENE; RR S	271	50h	
* Rockport Int. 12, NO-LS	1.5 E; riv W	217	28 L3	
* Tylertown Int. 7, NO-LS	6 SE; road E	392	40 L3	
Ulmer (Brooklaven)	1.5 NNE; RR W	500	20 S4	73 oct. No sto. Pole line W.

NEW ORLEANS



● DESIGNATED RADIO FIX

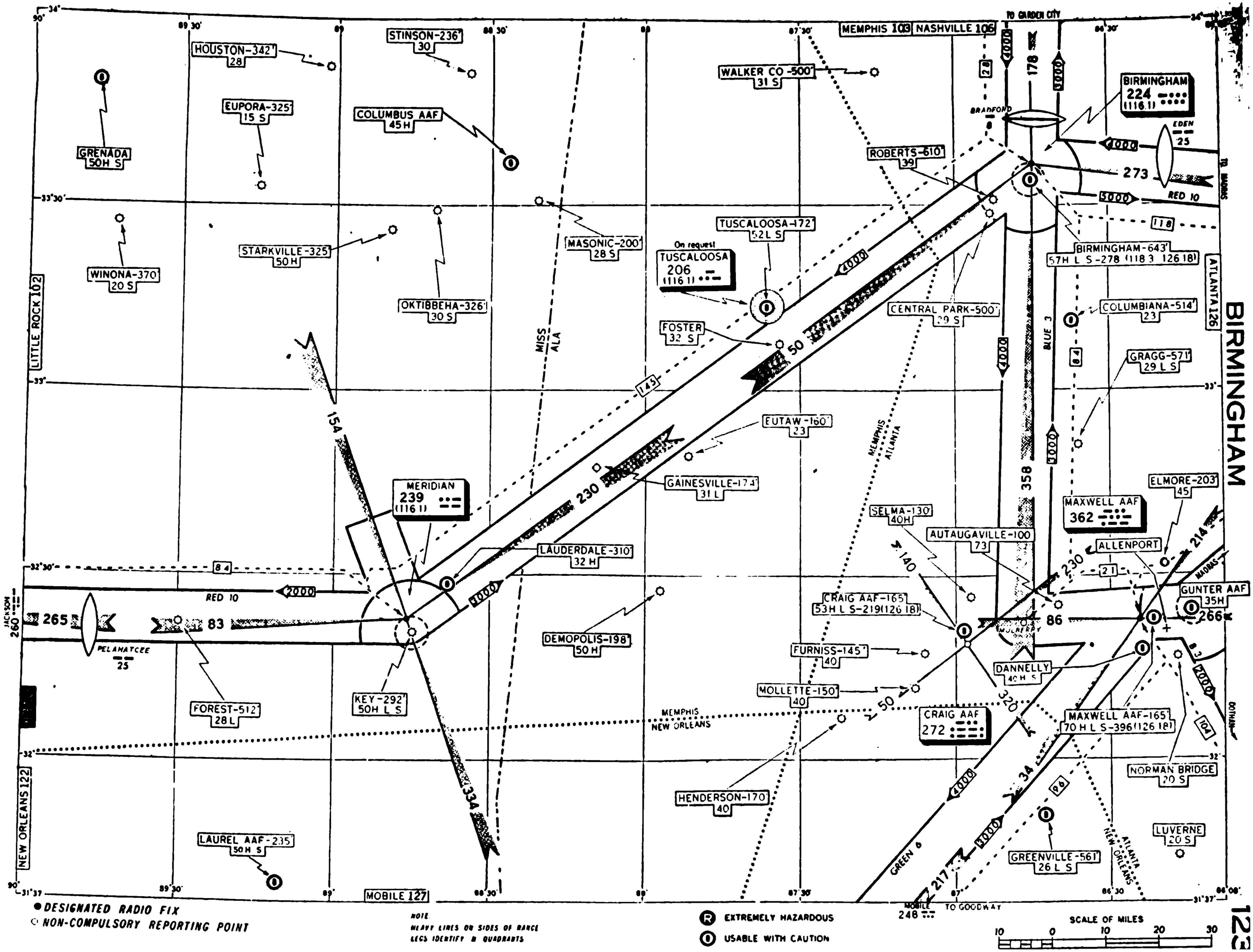
○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS

Ⓞ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS

BIRMINGHAM



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE
HEAVY LINES OR SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS

Ⓡ EXTREMELY HAZARDOUS

Ⓞ USABLE WITH CAUTION

BIRMINGHAM

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BIRMINGHAM	224(BH) (116.1)	SBRAZ-VDT	(3); 116.1
Birmingham Airport	278 (126.18) (118.3)	AC, 178°, 3	(4); 116.1,140.1,131.9,126.18,118.3
BRADFORD FM	(-)	FM, 358°, 8	Birmingham
CRAIG (Selma)(Army)	272 (DPP)	MRLZ	(3);126.18
Craig Field	219 (126.18)	CA; 320°, 2.5	(3); 126.18
EDEN FM	(- -)	FM; 93°, 25.1	Birmingham
GUNTER FIELD(Montgomery)	201 (126.18)	CA	INACTIVE
MAXWELL (Montgomery)(Army)	362 (DXW)	SBRAZ	(4)
Maxwell Field	396 (126.18)	CA; 86°, 2	(4); 126.18
TUSCALOOSA	206(TU)(116.1)	MHVT	(4); 116.1

MISSISSIPPI

MERIDIAN (Key)	239(UM)(116.1)	SBRAZ-VDT;154°,2.8	(4); 116.1
PELAHATCHEE FM	(- -)	FM, 85°, 25	Jackson

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allenport (Montgomery)	4 SE	175	30 S5	80,91oct.183' twr NW.Data unver.
Autaugaville (Selma)	20.5 W	100	73	
(A) BIRMINGHAM	5.5 NE;RR S	643	57h R2 L5 S3	73-100oct.JP-1.Rdo rec req.
Central Park(Birmingham)	5.2 SW;RR E	500	29 S6	80 oct. No sto.
Columbiana	1.5 WNW	514	23	Lgt acft only.
(A) Craig (Selma)(A)	4.8 SSE	165	53h R2 L5 S6	91,100 oct.
DANNELLY (Montgomery)	7.5 SW;RR E	219	40h S1	80,91 oct.
(P) Demopolis	7.8 WSW;riv NW	198	50h	
(A) Elmore (Montgomery)(A)	10 N;hwy N	203	45	INACTIVE.
Eutaw	2 SE;hwy N	160	23	Pole line W.
Foster(Tuscaloosa)	5.5 S	236	32 S4	Ltd 73 oct.Pwr line E.
Furniss (Selma)	10 SSW	145	40	
* Gainesville Int,55,FV-AG	2 S;hwy W	174	31 L2	
Gragg,27,PS-TM(Clanton)	2.2 NE;creek S	571	29 L3 S2	80,91oct. Hill E.
Greenville,24,NO-AG	5.5 WNW;hwy S	561	26 L2 S4	80 oct.
(A) Gunter (Montgomery)(A)	5 NE	221	35h	INACTIVE.
Henderson (Selma)	29 SW; riv W	170	40	
Luverne	1.7 NNW;RR E	300	20 S1	73 oct.Pole line W.
(A) Maxwell(Montgomery)(A)	3 WNW	165	70h R2 L5 S6	73,91,100oct.No sto.JP-1
Mollette (Selma)	16.2 SSW	150	40	
Norman Bridge(Montgomery)	5.8 S;RR E	172	20 S4	73 oct. No sto.
Roberts (Birmingham)	3 W;RR N	610	39	
Selma-Selfield (Selma)	4 ENE;RR S	130	40h	
Tuscaloosa,59,FV-AG	3 NW;RR N	172	52 R1 L3 S6	73,80 oct.Pole,trees N.
Walker County (Jasper)	2.5 NNE;RR W	500	31 S2	80 oct.

MISSISSIPPI

(A) Columbus AAF (A)	10 N;RR E	205	45h	INACTIVE.
Eupora	1 NE;hwy S	325	15 S2	80 oct.Hill NW.
Forest,46,FV-AG	1 W;RR S	512	28 L3	
Grenada	3 N;RR S	197	50h L5 S2	80,91 oct.Ctc lgts req.
Houston	1.5 SW;hwy SE	342	28	Trees W,SE,N; bldg SE.
KEY (Meridian)	3.5 SW;RR E	292	50h R1 L5 S4	80,91 oct. Ctc lgts prior req.
Lauderdale Civil(Meridian)	9 NNE;hwy E	310	32h	
(A) Laurel AAF	3 SW;RR SE	235	50h L S4	80,91 oct.Portable rnwy lgts.INACTIVE.
Masonic (Columbus)	3.9 ENE;hwy S	200	28 S2	80 oct.
O'Keefe (Newton)(NC)	1.5 ESE;RR N	363	26	Trees NE,SE,NW.UNUSABLE.
Oktibbeha (Starkville)	7.5 ENE;hwy E	326	30 S6	73 oct.
(P) Starkville (Columbus)	2 SW Starkville	325	50h	
Stinson (Aberdeen)	3 NW;hwy NE	239	30	
Winona	1.3 SSE;RR W	370	20 S4	73,91oct. Lgt acft only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. →

NEW OR REVISED DATA

RADIO — ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANNISTON	206 (K I)(116.1)	MHVT	(4): 116.1
GEORGIA			
ALBANY (Turner Aux. Fld. #1)	254 (GY)(116.1)	BMRLZ-VDT.298°2.3	(4): 116.1
ATLANTA	266 (AG)(116.1)	SBRAZ-VDTX	(3): 116.1
Atlanta Airport	278 (118.7)(126.18)	AC (ILS):331°,1.9	(4):126.18,142.74,118.7, 131.9, 126.18.
Atlanta (Navy)	323 (NCQ)	MRLWZ	
Atlanta NAS	356 (142.74)	CN: 86°,3.2	3105,4495,3117.5,142.74
EAST POINT LFM	(- - - -)	LFM, 331°,6.5	Atlanta
JONESBORO	219 (H)	FMK: 133°,11	Atlanta
JONESBORO FM	(- -)	FM, 133°, 11	Atlanta
LAWSON, (Columbus)(Army)	379 (DVL)	MRLZ	
Lawson Field	278 (126.18)	CA: 21°, 3.3	(3): 126.18
MACON (Herbert Smart)	209 (UN)(116.1)	BMLZ-VDT:246°,4.8	(4): 116.1
MADRAS FM	(- - -)	FM, 230°, 22.8	Atlanta
MARIETTA AAF	396 (126.18)	CA	4495,6210,126.18 (8-20)
SMYRNA FM	(. - - - - -)	FM, 331°, 22	Atlanta
STONE MOUNTAIN FM	(-)	FM, 55°, 17.25	Atlanta
WARNER-ROBINS (Robins Fld)	284 (126.18)	CA	(3): 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

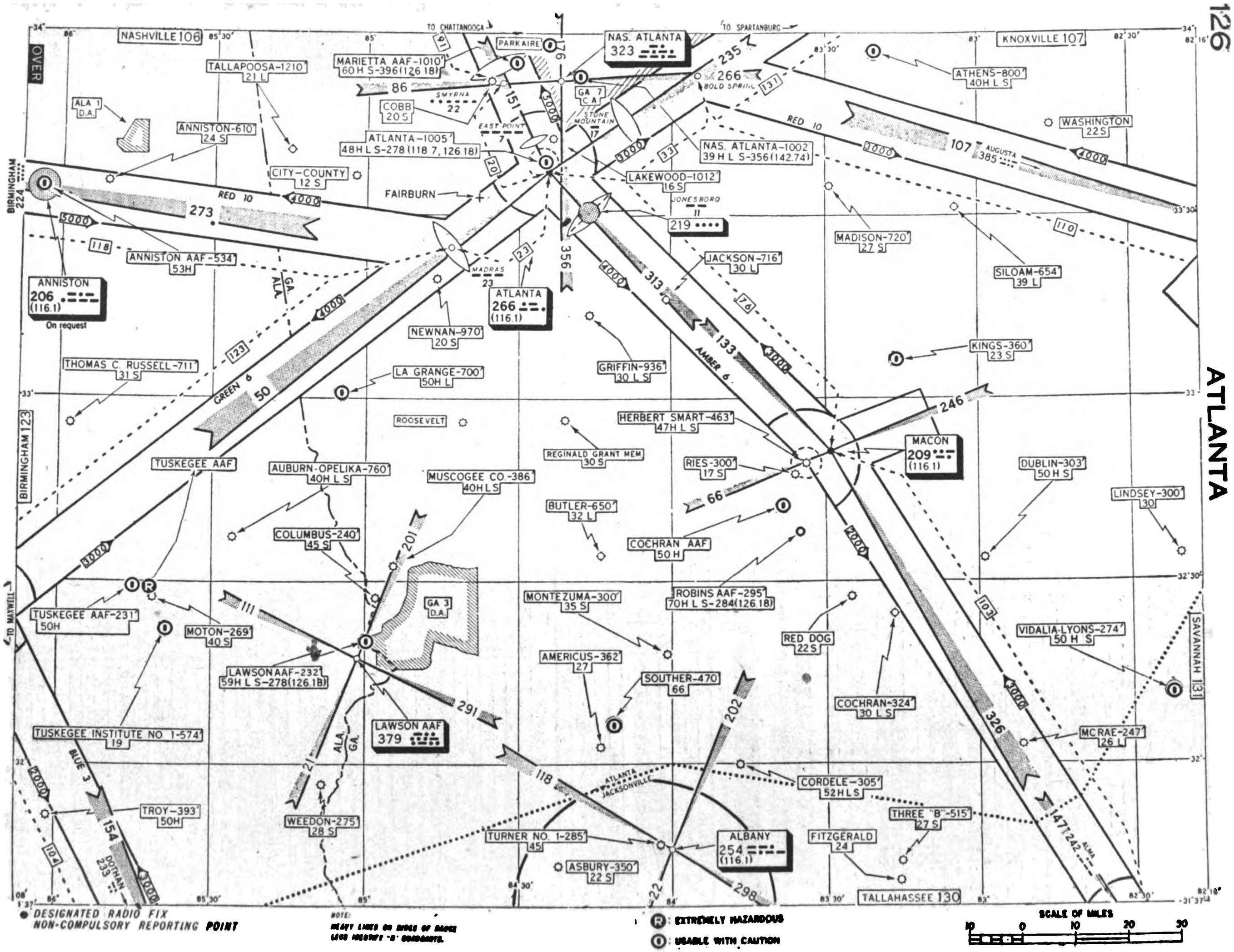
LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ATLANTA, GA.	109.9		329° Mag.	IM	MM	CM	--(3.1)
					PEK 201 ·--·(.68)	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

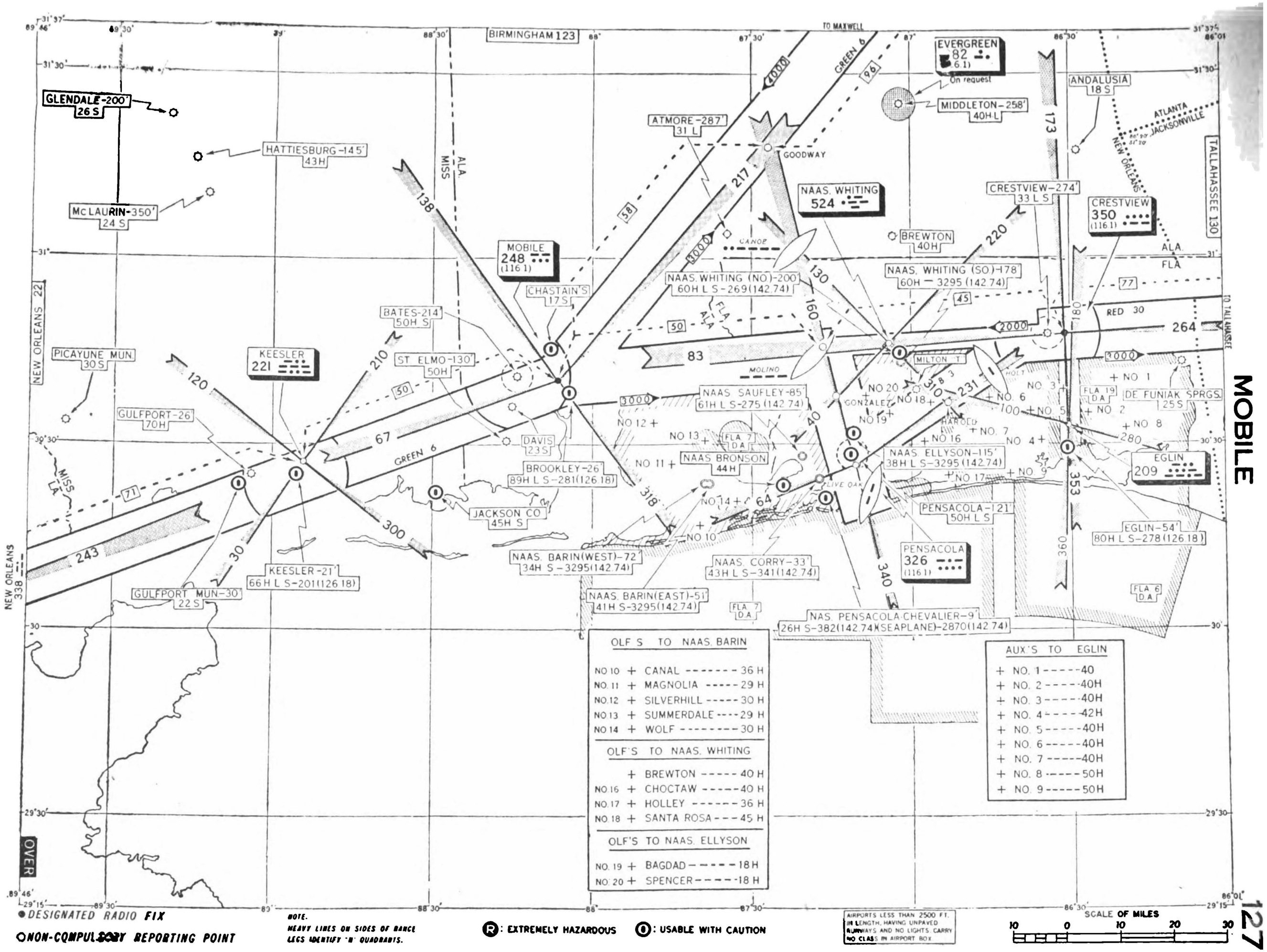
AIRPORTS — ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anniston	5.5 SSW	610	24 S3	80 oct. Pole line W, lgtd.
(A) Anniston AAF (A)	15 SW; hwy N	534	53h R1	INACTIVE.
(P) Auburn-Opelika (Auburn)	2.8 E; RR N	769	40h L5 S5	80 oct. Fld lgts prior req.
Moton (Tuskegee)	3 N; RR,riv E	269	40 S6	73-91 oct. No sto. Twr S end.
Talladega (NC)	2.6 NE; RR SE	590	20	Pole line E, hill W.
Thomas C. Russell(Alexander Cy)	1.5 SW; hwy E	711	31 S5	80 oct.
(P) Troy	4.8 NNW; rd E	393	50h	
→ (A) Tuskegee AAF (A)	7.3 NW; RR S	231	50h	INACTIVE.
Tuskegee Institute #1	4 SSE; hwy W	574	19	
Weedon (Eufaula)	4.3 NNE; hwy E	275	28 S2	80 oct.
GEORGIA				
Americus	1.5 S; RR W	362	27	Trees E, W, NE.
Ashbury (Dawson)	5.7 SE; RR N	350	22 S1	Ltd 80 oct. Pole NNW.
Athens	3.5 E; RR N	800	40h L4 S6	80, 91 oct.
(A) ATLANTA	8 S; RR N	1005	48h R3 L6 S6	73-100 oct.Rdo rec req.Trees NW.
(N) Atlanta NAS (N)	8.5 NNE; hwy SE	1002	39h R2 L6 S6	100 oct. NAFC.
★ Butler Int,14, T I-AG	0.5 NW; RR S	650	32 L3	Poles S.
City-County (Carrollton)	3.3 NE; hwy E	1200	12 S1	Ltd 73 oct.
Cobb (Marietta)	6.4 SSW; rd S	1050	20 S6	Ltd 80 oct.No sto.Trees NW.
(A) Cochran (Macon) (A)	10 S; RR E	352	50h	INACTIVE.
★ Cochran Int,50,MM-AG	5 NE; rd N	324	30 L2 S6	80 oct. Poles NW, NE, S, SE.
Columbus	1.5 SSE; riv SW	240	45 S4	80 oct.
(P) Cordele	1.6 NNE; RR W	305	52h L3 S1	80 oct.
(N,P) Dublin	4.5 WNW; hwy S	303	50h S1	73 oct.
Fairburn	3.5 SW; RR S		24 S2	80 oct.Hi-line SE. Data not verified.
Fitzgerald	2 SSW; RR W,E	365	24	
Griffin	1.5 S;hwy E	936	30 L3 S6	80 oct. Twr E.
HERBERT SMART (Macon)	4 ESE;hwy W	463	47h R1 L5 S6	80,91 oct.,
★ Jackson Int, 57, MM-AG	4.6 SW; rd S	716	30 L3	Barn E; bldg W.
Kings (Milledgeville)	1.5 NW; RR W	360	23 S4	80 oct. No sto.
(P) La Grange	3 SW; RR ESE	700	50h L2	
Lakewood (Atlanta)	4 S; hwy W	1012	16 S4	80 oct. Pwr line SE end NW-SE strip.
→ (A) Lawson (Columbus) (A)	9.5 S; riv W	232	59h R2 L5 S6	91,100 oct. No sto.
Lindsey (Swainsboro)	2.3 S; RR W	300	30	Pole line E.
→ McRae 47,MM-AG	2 SE; RR NE	247	26 L3	
Madison	2 SSW; RR E	720	27 S2	80 oct. Pwr line SSE.
(A) Marietta AAF (A)	2.5 SE	1010	60h R1 L5 S4	73-100 oct. JP-1. Lgts avail. up to 2000.
Montezuma	1.5 E; RR S,W	300	35 S1	Ltd 80 oct.
Morton (Palmetto)	1.8 NNE; RR SW	1020	24 S6	80 oct.
MUSCOGEE CO.(Columbus)	6 NE; Hwy E	386	40h L5 S6	80,91 oct. Fld lgts prior request.
Newnan Airpark	3.7 SE; RR W	970	20 L1 S1	80 oct.
Red Dog (Cochran)	6.2 NW; RR W	300	22 S4	80 oct. Trees N, E.
Reginald Grant Mem'l(Thomaston)	3.7 NNW;hwy NE	750	30 S4	80 oct. Trees S.
Ries (Macon)	4.5 SE; RR W	300	17 S1	Ltd 80 oct - emerg. Trees N, E.
(A) Robins (Warner-Robins)(A)	1.5 NE Wellston	275	70h R1 L5 S6	62,73,91,100 oct. JP-1.
Roosevelt (Warm Springs)	3.5 N; hwy W	870	22 S2	80 oct. Trees SE, SW, NW.
★ Siloam Int,7B, AG-CS	1.3 S; road W	654	39 L3	82' mast SE corner N/S strip.
Souther (Americus)	4 NE; RR W	470	66	
★ Tallapoosa Int,73,FV-AG	5.5 SSE	1210	21 L3	Trees SE; house NW.
Three "B" (Fitzgerald)	1.5 N	515	27 S1	80 oct.
Turner #1 (Albany)	15 NE	285	45	
(A) Vidalia-Lyons	3.2 SE; hwy N	274	50h S1	80 oct.
Washington	1.4 NW; RR SE	600	22 S1	80 oct.
→ Parkaire (Marietta)	7.7E;hwy SW	1100	22 S1	80 oct.
→ Woodbury	1.5 E	770	16 S1	Fuel. Data unver.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA


NASHVILLE 106
TO CHATTANOOGA
TO SPARTANBURG
KNOXVILLE 107
OVER
PARKAIRE
NAS. ATLANTA 323
MARIETTA AAF-1010 60 H S-396(126.18)
TALLAPOOSA-1210 21 L
ATHENS-800 40 H L S
ALA 1 D.A.
COBB 20 S
SMYRNA 22
GA 7 C.A.
STONE MOUNTAIN 17
EAST POINT 7
ANNISTON-610 24 S
ATLANTA-1005 48 H L S-278(118.7, 126.18)
NAS. ATLANTA-1002 39 H L S-356(142.74)
WASHINGTON 22 S
BOLD SPRINGS
AUGUSTA 385
CITY-COUNTY 12 S
LAKEWOOD-1012 16 S
FAIRBURN
JONESBORO 11
BIRMINGHAM 224
RED 10
273
219
MADISON-720 27 S
JACKSON-716 30 L
SILOAM-654 39 L
ANNISTON AAF-534 53H
ANNISTON 206 (116.1) On request
MADRAS 23
ATLANTA 266 (116.1)
NEWNAN-970 20 S
GRIFFIN-936 30 L S
KINGS-360 23 S
THOMAS C. RUSSELL-711 31 S
LA GRANGE-700 50H L
GREEN 6
AMBER 6
313
133
246
ROOSEVELT
HERBERT SMART-463 47H L S
MACON 209 (116.1)
BIRMINGHAM 123
REGINALD GRANT MEM 30 S
RIES-300 17 S
DUBLIN-303 50 H S
LINDSEY-300 30
TUSKEGEE AAF
AUBURN-OPELIKA-760 40H L S
MUSCOGEE CO.-386 40H L S
BUTLER-650 32 L
COLUMBUS-240 45 S
COCHRAN AAF 50 H
66
201
TO MAXWELL
TUSKEGEE AAF-231 50H
MOTON-269 40 S
GA 3 D.A.
MONTEZUMA-300 35 S
ROBINS AAF-295 70H L S-284(126.18)
RED DOG 22 S
VIDALIA-LYONS-274 50 H S
SAVANNAH 131
AMERICUS-362 27
SOUTHER-470 66
LAWSON AAF-232 59H L S-278(126.18)
LAWSON AAF 379
COCHRAN-324 30 L S
TUSKEGEE INSTITUTE NO 1-574 19
MCRAE-247 26 L
BLUE 3
ALA.
GA.
ATLANTA JACKSONVILLE
CORDELE-305 52H L S
TROY-393 50H
WEEDON-275 28 S
THREE "B"-515 27 S
TURNER NO. 1-285 45
ALBANY 254 (116.1)
FITZGERALD 24
ASBURY-350 22 S
DOTHAN 233
TALLAHASSEE 130
ALMA
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE "R" BOUNDARYS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

MOBILE


BIRMINGHAM 123
TO MAXWELL
GLENDALE-200' 26 S
HATTIESBURG-145' 43H
McLAURIN-350' 24 S
ATMORE-287' 31 L
EVERGREEN 82 (6.1) On request
MIDDLETON-258' 40H L
ANDALUSIA 18 S
ATLANTA
JACKSONVILLE
NEW ORLEANS
TALLAHASSEE 130
GOODWAY
NAAS. WHITING 524
CRESTVIEW-274' 33 L S
CRESTVIEW 350 (116.1)
BREWTON 40H
MOBILE 248 (116.1)
CHASTAIN'S 17 S
NAAS. WHITING (NO)-200' 60H L S-269(142.74)
NAAS. WHITING (SO)-178' 60H — 3295 (142.74)
ALA. FLA
RED 30
264
TO TALLAHASSEE
BATES-214' 50H S
PICAYUNE MUN. 30 S
KEESLER 221
ST. ELMO-130' 50H
MILTON
NAAS. SAUFLEY-85' 61H L S-275 (142.74)
GULFPORT-26' 70H
DAVIS 23 S
BROOKLEY-26' 89H L S-281(126.18)
JACKSON CO 45H S
NAAS. BRONSON 44 H
NAAS. ELLYSON-115' 38H L S-3295 (142.74)
DE FUNIAK SPRGS. 25 S
EGLIN 209
PENSACOLA-121' 50H L S
EGLIN-54' 80H L S-278 (126.18)
PENSACOLA 326 (116.1)
NAAS. BARIN(WEST)-72' 34H S-3295(142.74)
NAAS. CORRY-33' 43H L S-341(142.74)
NAAS. BARIN(EAST)-51' 41H S-3295(142.74)
KEESLER-21' 66H L S-201(126.18)
GULFPORT MUN-30' 22 S
NAS. PENSACOLA-CHEVALIER-9' 26H S-382(142.74)(SEAPLANE)-2870(142.74)
NEW ORLEANS 338
OVER
OLF'S TO NAAS. BARIN
NO 10 + CANAL ------- 36 H
NO. 11 + MAGNOLIA ----- 29 H
NO.12 + SILVERHILL ----- 30 H
NO 13 + SUMMERDALE ---- 29 H
NO 14 + WOLF -------- 30 H
OLF'S TO NAAS. WHITING
+ BREWTON ----- 40 H
NO.16 + CHOCTAW ----- 40 H
NO.17 + HOLLEY ------ 36 H
NO.18 + SANTA ROSA --- 45 H
OLF'S TO NAAS. ELLYSON
NO. 19 + BAGDAD ----- 18 H
NO. 20 + SPENCER ----- 18 H
AUX'S TO EGLIN
+ NO. 1 -----40
+ NO. 2 -----40H
+ NO. 3 -----40H
+ NO. 4 -----42H
+ NO. 5 -----40H
+ NO. 6 -----40H
+ NO. 7 -----40H
+ NO. 8 -----50H
+ NO. 9 -----50H
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE. HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS. CARRY NO CLASS IN AIRPORT BOX
SCALE OF MILES
10 0 10 20 30

RADIO

ALABAMA

LOCATION	FREQ.,IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARIN FIELD NAAS(Foley) East Field	3295(142.74)	CN	3105;142.74
BARIN FIELD NAAS(Foley) West Field	3295(142.74)	CN	3105;142.74
BROOKLEY FIELD(Mobile)	281 (126.18)	CA	(4); 126.18
CANOE FM	(. . - - - -)	FM, 310°, 24.9	Whiting NAAS
EVERGREEN (Middleton)	382(EG)(116.1)	MHVT	(4);116.1
MOBILE (Brookley)	248(MS)(116.1)	SBRAZ-VDT;138°, 3	(4);116.1

FLORIDA

CORRY FLD NAAS(Pensacola)	341(142.74)	CN	3105;142.74
CRESTVIEW	350 (HW) (116.1)	SBRAZ-VDT;264°,2.6	(4);116.1
EGLIN (Valparaiso)(Army)	209 (DVQ)	MSLRZ	(Voice 6-24)(3);126.18
Eglin Field	278(126.18)	CA;180°,4	(3);4220,126.18 (6-24)
ELLYSON FLD NAAS (Pensacola)	3295(142.74)	CN	3105;142.74 (8-16)
HOLT FM	(-)	FM, 51°, 31.2	Pensacola
LIVE OAK FM	(- -)	FM, 160°, 6	Pensacola
MOLINO FM	(- - - -)	FM, 340°, 21.4	Pensacola
PENSACOLA	326(KH)(116.1)	SBRAZ-VDT;340°,2.1	(4); 116.1
Pensacola-Chevalier NAS	382 (142.74)	CN	(4):142.74(sunrise-30 mins after sunset.
Pensacola-Chevalier NAS (Seaplane)	2870(142.74)	CN	3105.4495:142.74(730-1630 except Sat,Sun. & holidays).
SAUFLEY FLD NAAS (Pensacola)	275 (142.74)	CN	3105,4495;142.74
WHITING (Milton)(Navy)	524 (AWT)	MRLZ	
Whiting Fld NAAS(North)	269 (142.74)	CN;130°,3.2	3105,4495;142.74
Whiting Fld NAAS(South)	3295(142.74)	CN	3105;142.74(7-22)

MISSISSIPPI

KEESLER(Biloxi)(Army)	221 (DOX)	BMRLZ	(4); 4220
Keesler Field	201 (126.18)	CA; 210°, 2.9	(4); 4220

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs. (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Andalusia	1.7 SSE;RR N	340	18 S1	80 oct.
★ Atmore Int,16,NO-AG	6 NW;at rd int	287	31 L3	
(N) Barin NAAS-East(Foley)	2.7 ESE	51	41h R1 L1 S4	91 oct.
(N) " -West(Foley)	2.7 ESE	72	34h R1 L1 S4	91 oct.
BATES (MOBILE)	10 W;rd N,S	214	50h S6	80,91 oct.
Brewton (old)(NC)	2.5 N;hwy E	100	23	UNUSABLE.
(P) " (new)	3.5 S;riv N	92	40h	
(A) Brookley (Mobile)(A)	3 SSW;RR NW	26	99h R2 L5 S4	62,73,91,100oct.JP-1
(N) Canal OLF (Foley)(N)	8 S;rd W	16	36h	
Chastain's(Prichard)	2.5 NW;RR E	50	17 S1	80 oct.
Davis (Mobile)	12.1 WSW;RR E	180	23 S1	73 oct.
(N) Faircloth (Lillian)(N)	3 NW; bay E	70	37	
(N) Kaisers Tract OLF (Elberta) (N)(NC)	3.3 ENE;hwy S	90	25	
(N) Magnolia OLF (Foley)(N)	5.4 NW	83	29h	
(P) Middleton (Evergreen)	6 WSW; hwy N	258	40h R1 L5	Fld lgts prior req.
St. Elmo	1 WSW; RR S	130	50h	
(N) Silverhill OLF (N)	3.5 WNW	129	30h	
(N) Summerdale OLF (N)	3.5 ENE;RR W	129	29h	
(N) Wolf OLF (Josephine)(N)	1.5 N; bay E	54	30h	

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N) Bagdad OLF (Pensacola)	14 NE;RR SE	111	18h	Use rnwys.(N)
(N) Bronson NAAS(Pensacola(N)	12 WSW;bay W	27	44h	INACTIVE.
(N) Choctaw OLF (Pensacola)	15 ENE	111	40h	(N)
Crestview,21,NO-JX	2.5 N;RR E	274	33 R1 L2 S6	80 oct. No sto.
De Funiak Springs	1 W;RR N	197	25 S1	80 oct. Pwr line N.
(A) Eglin (Valparaiso)(A)	1.8 SW;hwy SE	54	80h R2 L5 S4	73-100 oct. JP-1. No sto.
(A) " #1 " (A)	13.7 NNE	238	40h	
(A) " #2 " (A)	6.1 ENE	157	40h	
(A) " #3 " (A)	10 N	192	40h	
(A) " #4 " (A)	6.2 W	92	42h	
(A) " #5 " (A)	10 NW	178	40h	
(A) " #6 " (A)	18.2 WNW;riv NW	136	40h	
(A) " #7 " (A)	19.5 W	133	40h	
(A) " #8 " (A)	10.3 ENE	113	50h	
(A) " #9 " (A)	13.7 WSW	35	50h	
(N) Ellyson NAAS(Pensacola)	7.5 NNE;bay E	115	38h R1 L S6	73,91 oct.E and W flds.CLSD.(N).
Gulf Airpark (Pensacola)	3 NW		17	Data not verified. (NC)
(N) Helm OLF (Pensacola)(N)	12 NW	100	54	(NC)
(N) Holley OLF (N)	1.5 S;riv N	37	36h	
→ Milton "T" (NC)	3.5 ENE;RR S	150	53 S3	80 oct.
(P) PENSACOLA	4 NNE;bay E	121	50h R1 L5 S6	80,91 oct.
(N) " NAS (Chevalier)(N)	5.3 SW;RR W	9	26h R1 L S6	91 oct.Flood,obst lgts.
(N) " NAS (Corry)(N)	5 WSW;hwy SE	33	43h R1 L4 S6	91 oct.Obsts N,E,W.
(N) " OLF #1 (N)(NC)	14 NW;riv 3 W	100	46	
(N) " OLF #5 (N)(NC)	10 NNW;RR W	115	57	
(N) " OLF #6 (N)(NC)	10 NNW;RR E	110	48	
(N) " OLF #7 (N)(NC)	7 NW	103	37	
(N) " OLF #8A (N)(NC)	13 NW	100	73	
(N) " OLF #9K (N)(NC)	11.5 NNW;RR E	110	50	
(N) Santa Rosa OLF (Milton)	6 E;rivs N,S,W	150	45h	(N)
(N) Saufley NAAS (Pensacola)	8.5 WNW;bay SW	85	61h R1 L5 S4	87,91 oct. (N)
(N) Spencer OLF (Pensacola)	15 NNE;bay S	145	18h	(N)
(N) Whiting NAAS-North (Milton)(N)	6 N	200	60h R2 L6 S4	73,91,100 oct.
(N) " " -South (Milton)(N)	5 N	178	60h R1	Use N fld. INACTIVE.

MISSISSIPPI

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Ellisville (NC)	1.3 SW;RR SE	240	18	
Glendale(Hattiesburg)	5 NNW;hwy E	200	26 S3	80 oct.
Gulfort	3.4 NE	26	70h	
" mun.	1.3 N;RR E	30	22 L1 S1	80 oct.Twrs SE,NNE,lgtd.
Hattiesburg	5 SSE;RR SW,NE	145	43h	Poles W,NW
Jackson Co.(Pascagoula)	3.5 ENE;RR N	16	45h L5 S6	80,91 oct.
(A) Keesler (Biloxi)(A)	2 WNW;bay N	21	66h R2 L5 S5	73,91,100 oct,Rdo rqd ngts.
McLaurin	1 NNE;RR W	350	24 S4	73 oct.Lgt acft only.
Picayne	2.3 NNE	92	30 S4	73 oct.No sto.Trees N,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — TALLAHASSEE

ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DOTHAN	233(NI)(116.1)	SBRAZ-VDT,47°,3.7	(4):116.1

FLORIDA

CROSS CITY	269 (FC)(116.1)	SBMRAZ-VDT,315°,2.7	(4), 116.1
DALE MABRY FLD (Tallahassee)	281 (126.18)(118.3)	C, 85°, 2.7	(4), 126.18, 118.3
TALLAHASSEE (Dale Mabry Fld)	335 (TJ)(116.1)	SBRAZ-VDT,85°,2.7	(4), 116.1
TYNDALL (Panama City)(Army)	203 (DKE)	BMRLZ	Voice 8-23. (3); 126.18
Tyndall Field	272 (126.18)	CA, 313°, 3	(3), 126.18 (6-24)

GEORGIA

ALMA (Int.)	242 (AJ)(116.1)	SBRAZ-VDT,144°, 2.2	(4), 116.1

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DOTHAN	2.5 WNW	322	40h R1 L5	
Enterprise	0.5 NE	355	22	
Headland	2 NE,hwy N	350	48	
Napier (Dothan)	7.5 NW,RR S	396	45h	
(A) Ozark AAF (A)	12 SSW	305	46h	INACTIVE
Southern Airmotive	2 SE,RR W	322	27 S4	80 oct. Twr NW. (Dothan)

FLORIDA

(A) Alliance #4 (Mariana)(A)	14 SE	215	50h	INACTIVE
(A) Apalachicola AAF (A)	2 W,RR N	19	53h	INACTIVE
Bascom (Mariana)	15.5 NE	120	50h	
Carrabelle Flgt Strip	2.6 W,hwy S	20	40h	
Chipley	1.5 SE,hwy N	100	24 S1	80 oct.Trees around fld.
Cross City	1 SE,RR SW	42	50h R1 L5	No beacon
DALE MABRY (Tallahassee)	3 W, RR S	70	52h R2 L5 S4	80, 91 oct.
Ellis (Mariana)	9.5 N,riv W	116	50h	
Jasper ,43,NO-JX	3.5 SSE,RR NE	143	36 L3	Poles W.Power line NE.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct. Lgts prior req.
(N) Lake Butler OLF (N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lake Jackson(Tallahassee)	9 NNW,riv NW	250	30 S4	80 oct. No sto.
Live Oak	1 W,RR W	105	26 S1	80 oct. Pole line N,NE,SW. Hwy N.
Malone #2 (Mariana)	15.5 N	154	50h	
Mariana	6 NE,hwy E	112	50h L5 S4	80 oct.Fld lgts prior req.
Montbrook (Williston)	3.2 SSW,hwy E	70	70h	
Monticello (NC)	1.5 SW,hwy E	160	25	
Panama City	5 NW,bay N,S,W	5	19 S6	80 oct.

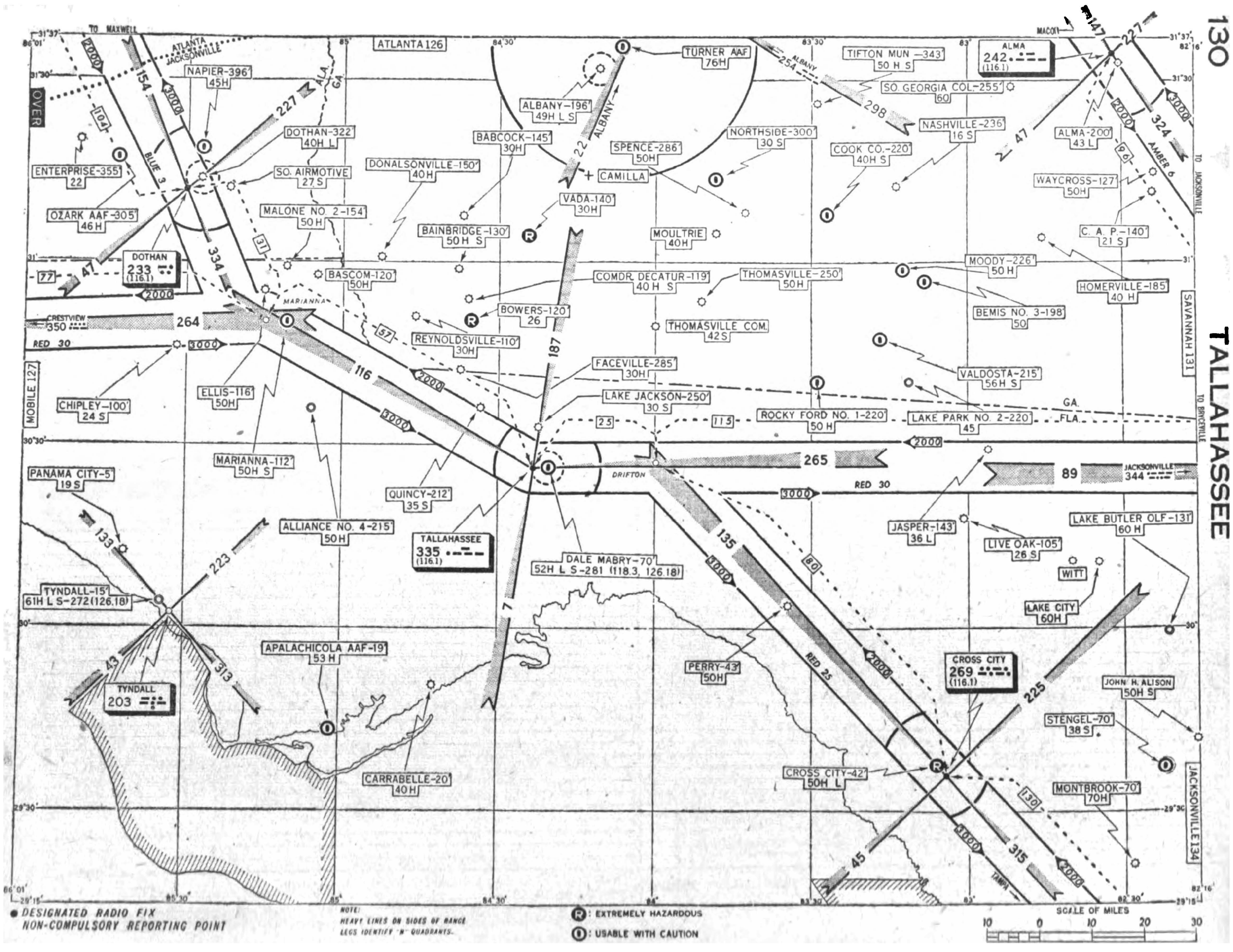
FLORIDA

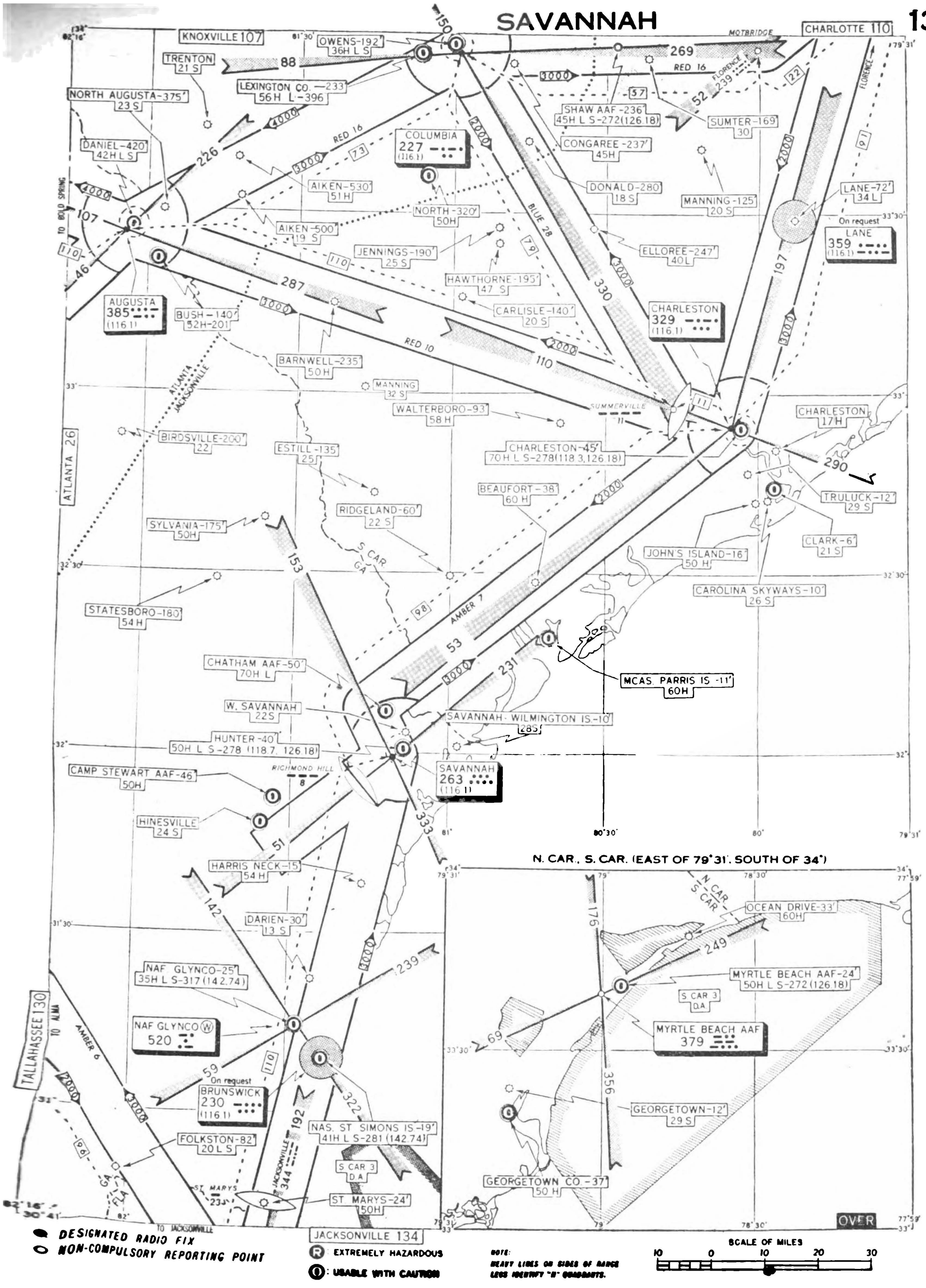
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Perry	3 S,RR E	43	50h	
Perry Municipal	0.5 NE	43	20	Trees NE,SW.
Quincy	1.5 NE,RR S	212	35 S1	80 oct.
Stengel(Gainesville)	4 WSW,RR SE	70	38 S6	80 oct. Trees around fld.
Tennile (NC)	2.5 SSW Clara	35	20	Trees SW Road E.
(A) Tyndall (Panama City)	8 SE	15	61h R2 L5 S6	73,91,100 oct. Gulf of Mexico SW. (A)
→ Witt (Lake City)	2 WSW;hwy S	200	36 S4	80 oct. No sto.

GEORGIA

(P) ALBANY	4 SW, RR N	196	49h R1 L5 S6	80, 91 oct.
★ Alma Int,43,MM-AG	2.5 W,hwy N	200	43 R1 L3	
Babcock(Bainbridge)	3.5 ENE Boykin	145	30h	
Bainbridge	7 NNW,RR NE	130	50h S6	80, 91 oct.
(A) Bemiss #3 (Valdosta)(A)	12 NE,hwy SE	198	50	INACTIVE
Bowers (Bainbridge)	4.5 S,rd W	120	26	Trees sur fld. Closed. High weeds.
Camilla	0.7 NW		22 S1	80 oct. Data not verified.
Civil Air Patrol (Waycross)	2.6 WSW,RR SE	140	21 S1	80 oct. Obsts surround fld.
Commodore Decatur	2 W,riv S	119	40h S1	80 oct. (Bainbridge)
Cook County (Adel)	1.3 W,hwy NE	220	40h L3 S6	80, 91 oct.
Donalsonville(Bainbridge)	1 S Donalsonv'l	150	40h	
Faceville(Bainbridge)	3.5 S Faceville	285	30h	
Homerville Flgt Strip	2.5 NW,hwy NE	185	40h	
(A) Lake Park #2(Valdosta)	12.5 SSE,hwy N	220	45	INACTIVE (A)
(A) Moody (Valdosta)(A)	11.5 NNE,RR W	226	50h	INACTIVE
Moultrie	7 S,hwy NW	287	40h	
Nashville	1.3 ENE,RR S	236	16 S6	80 oct.
Northside (Moultrie)	3.2 NNW,RR W	300	30 S4	80 oct. No sto.
Reynoldsville (Bainbridge)	1.7 SSW Reynoldsville	110	30h	
(A) Rocky Ford #1 (A)	16 SW,hwy N	220	50h	INACTIVE (Valdosta)
South Georgia College	1.3 S,RR W	225	60	(Douglas)
Spence (Moultrie)	5 SE,hwy W	286	50h	
(P) Thomasville	8.5 ENE,hwy S	250	50h	
Thomasville, com.	1 SW,RR N	250	42 S4	80 oct.Trees sur fld.
Tifton Mun.	2.3 SE,hwy W	343	50h L5 S4	80,91 oct. Lgts prior req.
(A) Turner (Albany) (A)	3.8 ENE,riv N	212	76h	INACTIVE.
Vada (Bainbridge)	3 NE of Vada	140	30h	
(A) Valdosta	2.5 S,hwy E	215	56h S1	80 oct. for civil aircraft.
(P) Waycross	4 NW,hwy E	127	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA


ATLANTA 126
TO MAXWELL
ATLANTA JACKSONVILLE
NAPIER-396 45H
DOTHAN-322 40H L
ENTERPRISE-355 22
OZARK AAF-305 46H
SO. AIRMOTIVE 27 S
MALONE NO. 2-154 50 H
DOTHAN 233 (116.1)
BASCOM-120 50H
CRESTVIEW 350
MARIANNA
ELLIS-116 50H
CHIPLEY-100 24 S
MARIANNA-112 50H S
PANAMA CITY-5 19 S
ALLIANCE NO. 4-215 50H
TYNDALL-15 61H L S-272 (126.18)
TYNDALL 203
APALACHICOLA AAF-19 53 H
CARRABELLE-20 40H
QUINCY-212 35 S
TALLAHASSEE 335 (116.1)
DONALSONVILLE-150 40H
BABCOCK-145 30H
ALBANY-196 49H L S
TURNER AAF 76H
SPENCE-286 50H
CAMILLA
VADA-140 30H
BAINBRIDGE-130 50H S
COMDR. DECATUR-119 40 H S
THOMASVILLE-250 50H
BOWERS-120 26
REYNOLDSVILLE-110 30H
THOMASVILLE COM. 42 S
FACEVILLE-285 30H
LAKE JACKSON-250 30 S
DALE MABRY-70 52H L S-281 (118.3, 126.18)
DRIFTON
PERRY-43 50H
NORTHSIDE-300 30 S
MOULTRIE 40H
TIFTON MUN -343 50 H S
SO. GEORGIA COL-255 60
NASHVILLE-236 16 S
COOK CO.-220 40H S
ROCKY FORD NO. 1-220 50 H
ALMA 242 (116.1)
ALMA-200 43 L
WAYCROSS-127 50H
C. A. P.-140 21 S
MOODY-226 50 H
HOMERVILLE-185 40 H
BEMIS NO. 3-198 50
VALDOSTA-215 56 H S
LAKE PARK NO. 2-220 45
JACKSONVILLE 344
JASPER-143 36 L
LIVE OAK-105 26 S
LAKE BUTLER OLF-131 60 H
WITT
LAKE CITY 60H
CROSS CITY 269 (116.1)
CROSS CITY-42 50H L
STENGEL-70 38 S
JOHN H. ALISON 50H S
MONTBROOK-70 70H
TAMPA
JACKSONVILLE 134
SAVANNAH 131
TO JACKSONVILLE
TO BRUNSWICK
MACON
OVER
MOBILE 127
GA.
FLA.
RED 30
RED 25
BLUE 3
AMBER 6
ALBANY
ALA.
GA.
● DESIGNATED RADIO FIX NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30


KNOXVILLE 107
OWENS-192' 36H L S
TRENTON 21 S
LEXINGTON CO. —233' 56H L-396
NORTH AUGUSTA-375' 23 S
DANIEL-420' 42H L S
COLUMBIA 227 (116.1)
AIKEN-530' 51H
AIKEN-500' 19 S
NORTH-320' 50H
JENNINGS-190' 25 S
HAWTHORNE-195' 47 S
CARLISLE-140' 20 S
AUGUSTA 385 (116.1)
BUSH-140' 52H-201
BARNWELL-235' 50H
MANNING 32 S
WALTERBORO-93' 58 H
BIRDSVILLE-200' 22
ESTILL-135' 25
RIDGELAND-60' 22 S
SYLVANIA-175' 50H
STATESBORO-180' 54 H
CHATHAM AAF-50' 70H L
W. SAVANNAH 22S
HUNTER-40' 50H L S-278 (118.7, 126.18)
SAVANNAH 263 (116.1)
CAMP STEWART AAF-46' 50H
HINESVILLE 24 S
HARRIS NECK-15' 54 H
DARIEN-30' 13 S
NAF GLYNCO-25' 35H L S-317 (142.74)
NAF GLYNCO 520
BRUNSWICK 230 (116.1)
FOLKSTON-82' 20 L S
NAS. ST SIMONS IS-19' 41H L S-281 (142.74)
S CAR 3 D A
ST MARYS-24' 50H
JACKSONVILLE 134
SHAW AAF-236' 45H L S-272(126.18)
CONGAREE-237' 45H
SUMTER-169' 30
DONALD-280' 18 S
MANNING-125' 20 S
ELLOREE-247' 40 L
CHARLESTON 329 (116.1)
CHARLESTON-45' 70H L S-278(118.3,126.18)
BEAUFORT-38' 60 H
JOHN'S ISLAND-16' 50 H
MCAS. PARRIS IS-11' 60H
SAVANNAH-WILMINGTON IS.-10' 28S
CHARLOTTE 110
LANE-72' 34 L
On request
LANE 359 (116.1)
CHARLESTON 17H
TRULUCK-12' 29 S
CLARK-6' 21 S
CAROLINA SKYWAYS-10' 26 S
N. CAR., S. CAR. (EAST OF 79°31', SOUTH OF 34°)
OCEAN DRIVE-33' 60H
MYRTLE BEACH AAF-24' 50H L S-272 (126.18)
MYRTLE BEACH AAF 379
GEORGETOWN-12' 29 S
GEORGETOWN CO.-37' 50 H
ATLANTA 26
TALLAHASSEE 130
TO ALMA
TO BOLD SPRING
TO JACKSONVILLE
MOTBRIDGE
FLORENCE
SUMMERVILLE
RICHMOND HILL
ST MARYS
S CAR GA
GA FLA
RED 16
RED 10
BLUE 28
AMBER 7
AMBER 6
ATLANTA JACKSONVILLE
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE: HEAVY LINES OR SIDES OF RANGE LEGS IDENTIFY "R" BOUNDARIES.
SCALE OF MILES
10 0 10 20 30
OVER

RADIO — GEORGIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA (Daniel)	385 (VD)(116.1)	SBRAZ-VDT,46°,2.1	(4), 116.1
BUSH FIELD (Augusta)	201	CA	(3) (8-sunset)
BRUNSWICK	230 (BS)(116.1)	MHVT	(4), 116.1
GLYNCO (Navy)	520 (NEA)	MRLWZ	
Glynco NAF-LTA	317 (142.74)	CN,239°, 0.3	3105,4495; 142.74 (8-17)
HUNTER FIELD (Savannah)	278 (126.18) (118.7)	AC	(4): 131.9,126.18, 118.7
RICHMOND HILL FM	(- - -)	FM, 231°, 8	Savannah
ST. MARYS FM	(-)	FM, 12°, 23	Jacksonville, Fla.
ST. SIMONS ISLAND NAS	281 (142.74) (140.58)	CN	(3):142.74,140.58 (630-24)
SAVANNAH (Hunter)	263 (SH)(116.1)	SBMRLZ-VDT,51°,2.2	(3); 116.1
SOUTH CAROLINA			
CHARLESTON	329 (CS)(116.1)	SBRAZ-VDT	(3), 116.1
Charleston Airport	278 (126.18) (118.3)	AC, 110°, 1.9	(4), 131.9,126.18,118.3
COLUMBIA (Owens Field)	227 (CI)(116.1)	SBRAZ-VDT,330°,1.8	(4), 116.1
LANE (Intermediate)	359 (LX)(116.1)	MHVT	(4), 116.1
MYRTLE BEACH (Army)	379 (DMB)	BMRAZ	
Myrtle Beach AAF	272 (126.18)	CA, 69°, 4.4	(3), 126.18
SHAW FIELD (Sumter)	272 (126.18)	CA	(3), 126.18 (7-24)
SUMMERVILLE FM	(- - - -)	FM, 296°, 10.7	Charleston
→ LEXINGTON CO.ARPT(Columbia)	396	C	(4)(8-22)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Birdsville (Millen)	9.4 WNW;riv S	200	22	
Bush (Augusta)	7.5 SSE;RR W	140	52h R1	
(A) Camp Stewart (Hinesville) (A)	3 NE;hwy SW	46	50h	INACTIVE
(A) Chatham AAF (Savannah) (A)	7.5 NW;RR E	52	70h L5	INACTIVE
DANIEL (Augusta)	2.5 W;RR S	420	42h R1 L5 S4	80, 91 oct. No sto. Use rnwys only
Darien	0.8 SE;riv S	30	13 S1	Ltd 80 oct. Trees W.
★ Folkston Int,37,MM-AG	0.7 WNW;hwy E	82	20 L3 S1	80 oct. on req.
(N) Glynco NAF (LTA)(N)	6.4 N;hwy SE	25	35h R2 L5 S4	91, 100 oct.
Harris Neck	7 E of So.Newport	15	54h	
Hinesville	3 S; hwy W	55	24 S4	73 oct. No sto. Rdo repairs.
HUNTER (Savannah)	3.5 SW;RR yd NW	42	50h R2 L5 S6	80, 91 oct.
St. Marys	1.7 NNW;hwy S	24	50h	
(N) St. SIMONS ISLAND NAS (N)	6 E Brunswick	19	41h R2 L5 S4	91, 100 oct. No sto. Trees NE,W.
Savannah-Wilmington (Savannah)	8 ESE; hwy N	10	28 S6	73 oct. Trees NE,SW.
Statesboro	3.8 NE;hwy W	180	54h	
Sylvania	7.5 SSE;hwy E	175	50h	
West Savannah(Savannah)	3 W; RR W,N	42	22 S6	80 oct. Pole line NW.

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
SOUTH CAROLINA				
Aiken (old)	2 E; RR NNE	500	19 S4	80 oct. Trees SSW.
Aiken (new)	6 NNE; RR SW	530	51h	
Barnwell	1 WNW;hwy E	235	50h	
(P) Beaufort	4 NW	38	60h	
Carlisle (Bamberg)	4 ESE;riv NE	140	20 S4	80 oct. No sto.
Carolina Skyways (Charleston)	6 SSW;riv W	10	26 S4	80 oct.
(A) CHARLESTON (mun.)	9.8 NW;RR NE	45	70h R2 L6 S4	100 oct.
(N) Charleston (N)	4 N; riv E	13	17h	INACTIVE.
Clark (Charleston)	4 S;riv SW	6	21 S1	80 oct. Trees surround fld.
Congaree (Columbia)	15.5 ESE;RR S	237	45h	
Donald (St.Matthews)	2.5 NNE; RR S	280	18 S1	Ltd 80 oct. Trees SE.
★ Elloree Int,25,AG-CS	5.5 SE;RR N	247	40 L3	Steel mast NE.
Estill	2.5 SSW;RR E	135	25	
Georgetown	1 NW;riv E	12	29 S6	80,91 oct.
(P) Georgetown County	4 S;bay E	37	50h	
Hawthorne(Orangeburg)	5 S; RR E	195	47 S6	80, 91 oct. Tank N.
Jennings (Orangeburg)	2.3 S; RR E	190	25 S2	80, 91 oct. Pole line ENE.
John's Island (Charleston)	7 SSW; rd W	16	50h	
★ Lane Int,24,JX-RW	3 S;RR W	72	34 R1 L3	
Manning (Allendale)	1.5 ENE;hwy N	180	32 S1	80 oct.
Manning	1.5 SE;RR NNE	125	20 S1	Ltd 80 oct.
(A) Myrtle Beach AAF(A)	3 WSW;hwy SE	24	50h R2 L5 S6	73,91,100 oct. No sto.
(A) North (A)	1.5 SE; hwy N	320	50h	INACTIVE
North Augusta	2 E;hwy S	375	23 S4	80 oct.
Ocean Drive (Wampee)	3.5 SE;hwy SE	33	60h	
OWENS (Columbia)	2.5 SE;RR SW	192	36h R1 L4 S6	80 oct. Tank WSW, twr SSE.
(N) Parris Island MCAS	1.5 S	11	60h	INACTIVE (N)
Ridgeland	1.3 WNW;hwy E	60	22 S1	73, 80 oct.
(A) Shaw (Sumter)(A)	7 WNW;RR W	236	45h R1 L5 S6	73, 91, 100 oct. JP-I
Sumter	1.5 NW; RR S	169	30	
Trenton	1.2 E;RR ESE	480	21 S1	80 oct.
Truluck (Charleston)	5.5 W;RRs N	12	29 S6	80 oct. Poles surround fld.
(P) Walterboro	1.3 NE;hwy SE	93	58h	
(A)Lexington Co.(Columbia)	7 SW; RR SE	233	56h R1 L5	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — FLORIDA

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BANANA RIVER (Navy)	524 (NPB)	MRLZ	(3)
Banana River NAS	224 (142.74)	CN,106°,4.8	(3), 142.74
BAYARD FM	(- - -)	FM, 158°, 19	Jacksonville
BRYCEVILLE FM	(- - - -)	FM, 269°,20.2	Jacksonville
CECIL NAAS (Jacksonville)	201 (142.74)	CN	3105;142.74 (flying hrs)
DAYTONA BEACH	236(DB)(116.1)	BMLZ-VDT,101°, 2.1	(4), 116.1
DREW FIELD (Tampa)	317 (126.18) (118.5)	AC	(4),126.18,118.5,131.9
FORT GEORGE ISLAND FM	(- -)	FM,89°,10.25	Jacksonville
JACKSONVILLE	344(JX)(116.1)	SBRAZ-VDT	(3); 116.1
Jacksonville Arpt No. 1	278 (126.18) (118.5)	AC, 269°, 1.7	(4); 131.9,126.18,118.5
Jacksonville NAS	323 (126.18) (142.74)	CN	(3), 126.18, 142.74
Jacksonville NAS (Seaplane)	3295	CN	3105
MacDILL (Tampa) (Army)	1742 (TM)	H	
MacDill Field	227 (126.18)	CA	(3), 126.18
MELBOURNE	257 (OU)(116.1)	SBRAZ-VDT,158° 2.2	(4); 116.1
NORTH TAMPA FM	(- - - -)	FM, 355°, 10.1	Tampa
ORLANDO	206(OR)(116.1)	BMRLZ-VDT	(3), 116.1
Orlando Arpt.	278 (126.18) (118.7)	C, 220°, 3.4	(4),118.7,131.9, 128.18
PINECASTLE(AAF)	248 (126.18)	CA (ILS)	(3),126.18,139.32(8-24)
PINELLAS (St. Petersburg)	272	CI	(4) (8-24)
RUSSELL (Navy) (Fleming OLF)	365 (RUS)	BML, 30°, 3	(3), 128.7
TAMPA (Peter O. Knight Arpt.)	388 (TM)(116.1)	SBRAZ-VDT,55°, 2.6	(4), 116.1
VERO BEACH	242 (VB)(116.1)	MHVT	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and S. in the Compass Locator in Key)

LOCATION	LOCALIZER	S.F.	APPR. BEAR.	MARKER IDENT & MILES to ILS (Compass Locators in Key)					
PINECASTLE AAF, FLA.	109.1	335	360°Mag	IM	(.17)	MM	(.66)	OM	(4.5)
						MKR		SMR	

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station.
(3)-3105,4495,6210 kcs.. (4)-3105,4495,6210,3117.5kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P)Albert Whitted (St. Petersburg)	2.5 E,bay E	6	33h L3 S6	80,91,100 oct.Coast Gd. Sta.adj. Poles,stack NW,SW.
Petersburg) (NC)				
Altoona (NC)	0.6 NW,RR E	155	25	Trees ends strips.
Avon Park	1.5 W,RR E	127	40h S1	80 oct.Trees SE.
(A)Avon Park AAF(A)	11 ENE,lake NW	65	54h	INACTIVE.
(N)Banana River NAS	11 SE Cocoa	9	40h R2 L5 S6	91 oct.No bcn. (N)
Barberville (NC)	1 SE,bet RR& rd	25	25	Pole line E.UNUSABLE.
Bartow	5.5 NE,RR NW	128	50h L5 S2	80,91 oct.
Bostwick (NC)	1 NW,RR E	53	34	
Bradenton	0.5 S,RR NE	20	24 S1	80 oct.Trees W.Poles SW
(N)Branan OLF(Jax))	14 5 SW	73	40h L	B-2 lgts.
Brooksville	7.5 SW,hwy E	70	70h	
Bushnell	2.8 NE,hwy S	82	60h	N-S rnwy unusable.
Cannon Mills (Orlando)	3.8 E,hwy N	105	41 S6	80 oct.No sto.Poles sur fld.
(N)Cecil NAAS (Jacksonville)(N)	16 WSW,hwy NW	80	50h R1	INACTIVE.Trees sur.fld
Cedar Keys (NC)	1 W,bay S	6	24h	
Clearwater	2.5 NE,hwy S	73	30 S6	80 oct.No sto.Trees W.
Cocoa	1 N,RR E	20	26 L1	Pole line E,trees S,W.

FLORIDA

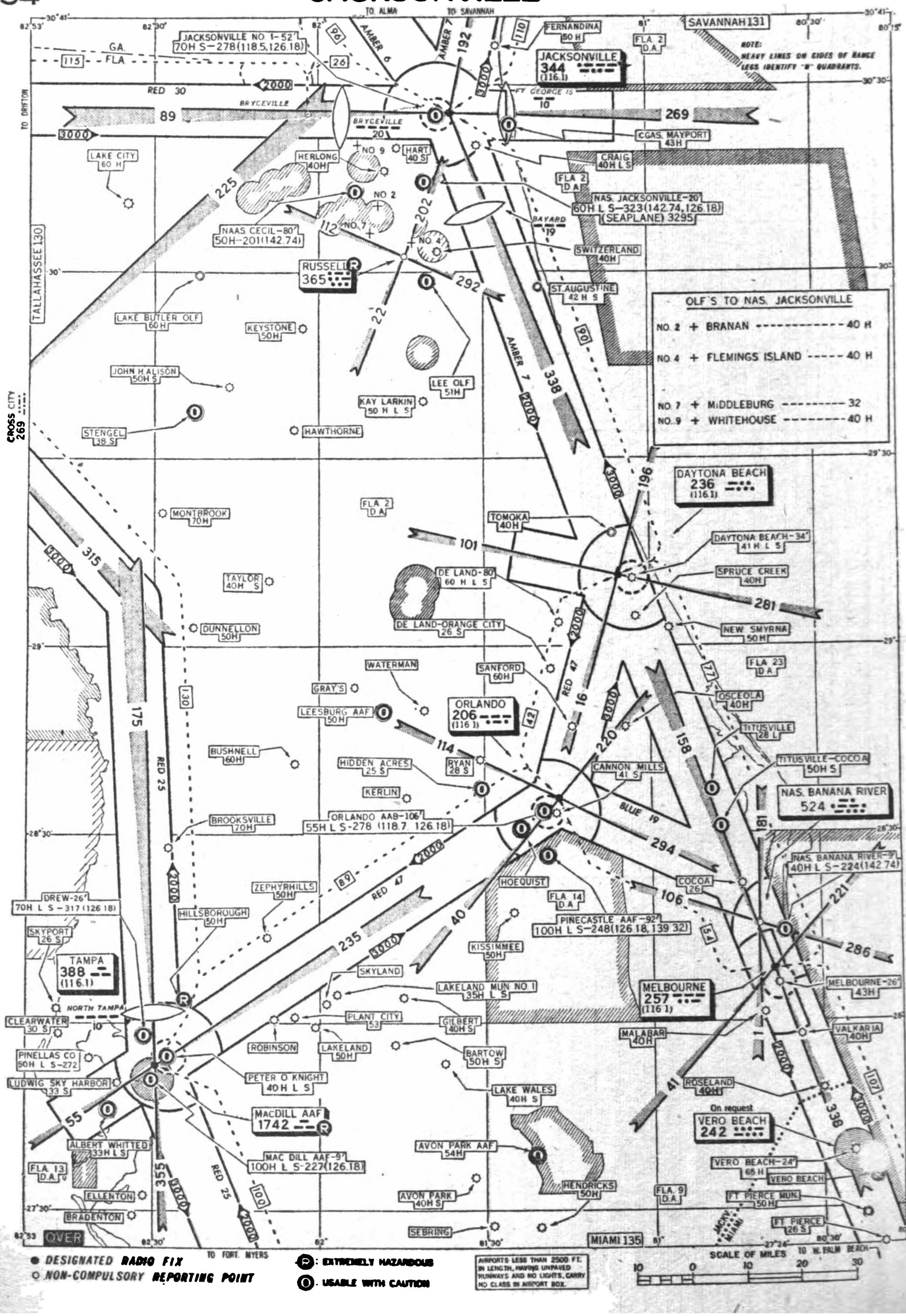
ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Craig (Jacksonville)	9 E,riv N	41	40h L5 S6	80,91 oct. No sto.
Daytona Beach	2.8 SW,hwy S	34	41h R1 L5 S6	80, 91 oct.
Deland	2.5 NNE,hwy S	80	60h L5 S1	87,91 oct.
Deland-Orange City (Orange City)	1 SW,riv W	90	26 S1	80 oct. Pole line E.
(N)Drew (Tampa)	5 W,bay SW	26	70h R1 L5 S6	80, 91 oct.Rdo rec req.
Dunnellon	4.5 E,hwy S	63	50h	
Ellenton	1.5 NNW,RR N	18	15	Pole line NE,trees SW,
(P)Fernandina	4 S,ocean E	16	50h	
(N)Flemings Island OLF (Jacksonville) (N)	17.5 SSW	23	40h L	B-2 lgts.
Ft. Pierce, com.	3.3 SSE,RR E	18	26 L1 S6	80 oct.Pole line W.
(P)Ft. Pierce, mun.	3.5 NW,hwy E	24	50h	
Frank D Waterman (Eustis)	0.9 SSW,lake NNW	81	23 S1	80 oct.Poles SW,N,W.
Gilbert (Winter Haven)	3.5 NNW,lake W,E	135	40h S6	80, 91 oct.
Gray's (Leesburg)	5 N,RR,hwy W	130	27 S6	80 oct.Orange groves W.
Haines City (NC)	1 NW	175	20 L1.	
Hart (Jacksonville)	6.5 W,RR N	20	40 S6	80,91 oct.Trees sur fld
Hawthorne	1.2 SSE,RR W	120	24 S1	Ltd 80 oct.Trees S,W,NE
Hendricks (Sebring)	6.5 ESE,RR N	62	50h	
Herlong (Jacksonville)	10.5 WSW	87	40h	
Hidden Acres (Clarcona)	1.5 WNW,lake W	93	25 S6	80 oct.Trees E.
Hillsborough (Tampa)	7 NNE	50	50h	
Hoequist(Orlando)	3.8 SW,bet lakes	90	20 S4	80 oct.No sto.Trees E.
(N)Jacksonville NAS(N)	7.2 S,riv E,N	20	60h R1 L5 S6	91, 100 oct. NATS.
(A)Jacksonville No. 1	6.3 N,RR W	52	70h R2 L5 S4	80, 91, 100 oct. JP-1, for Army.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct.Lgts prior req.
(P)Kay Larkin(Palatka)	3 WNW,RR N	56	50h L5 S1	91 oct.
Kerlin (Minneola)	0.5 NE	100	18 S2	90 oct.
Keystone (Keystone Heights)	4.5 NNW,RR W	192	50h	
Kissimmee	2 W,RR N	65	50h	
(N)Lake Butler OLF(N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lakeland	4.5 SW,RR NE	135	50h	
LAKELAND MUN. NO. 1	2.1 N,lake E	159	35h L5 S6	80, 91 oct.Ctc lgts on req till 2400
Lake Wales	2.3 WSW,RR N	225	40h L3 S6	80, 91 oct.All lgts prior req.
(N)Lee OLF (Green Cove Springs)(N)	2.2 SE,riv N	22	51h	INACTIVE.
(A)Leesburg AAF (A)	4 ENE,RR SE	67	50h L3	CLOSED.
Ludwig Sky Harbor (St.Petersburg)	6 NE,bay E	14	33 L1 S6	80 oct.
(A)MacDill (Tampa)(A)	8 SSW,bay NE	9	100h R2 L5 S6	73-100 oct. JP-1.No sto.
Malabar	7 WNW	27	40h	
Mayport CGAS	0.6 NNE,riv N	19	43h	INACTIVE.
Melbourne	2.2 NW,RR E	26	43h R1	
(N)Middleburg OLF (N)	3 NNE,rds E, SE	34	32	
Montbrook(Williston)	3.2 SSW,hwy E	70	70h	
New Smyrna	3 NNW,RR W	12	50h	
(A)Orlando AAB(Arpt)	2.5 E,lake SE	106	55h R2 L5 S6	91; 100 oct.for military. No sto.

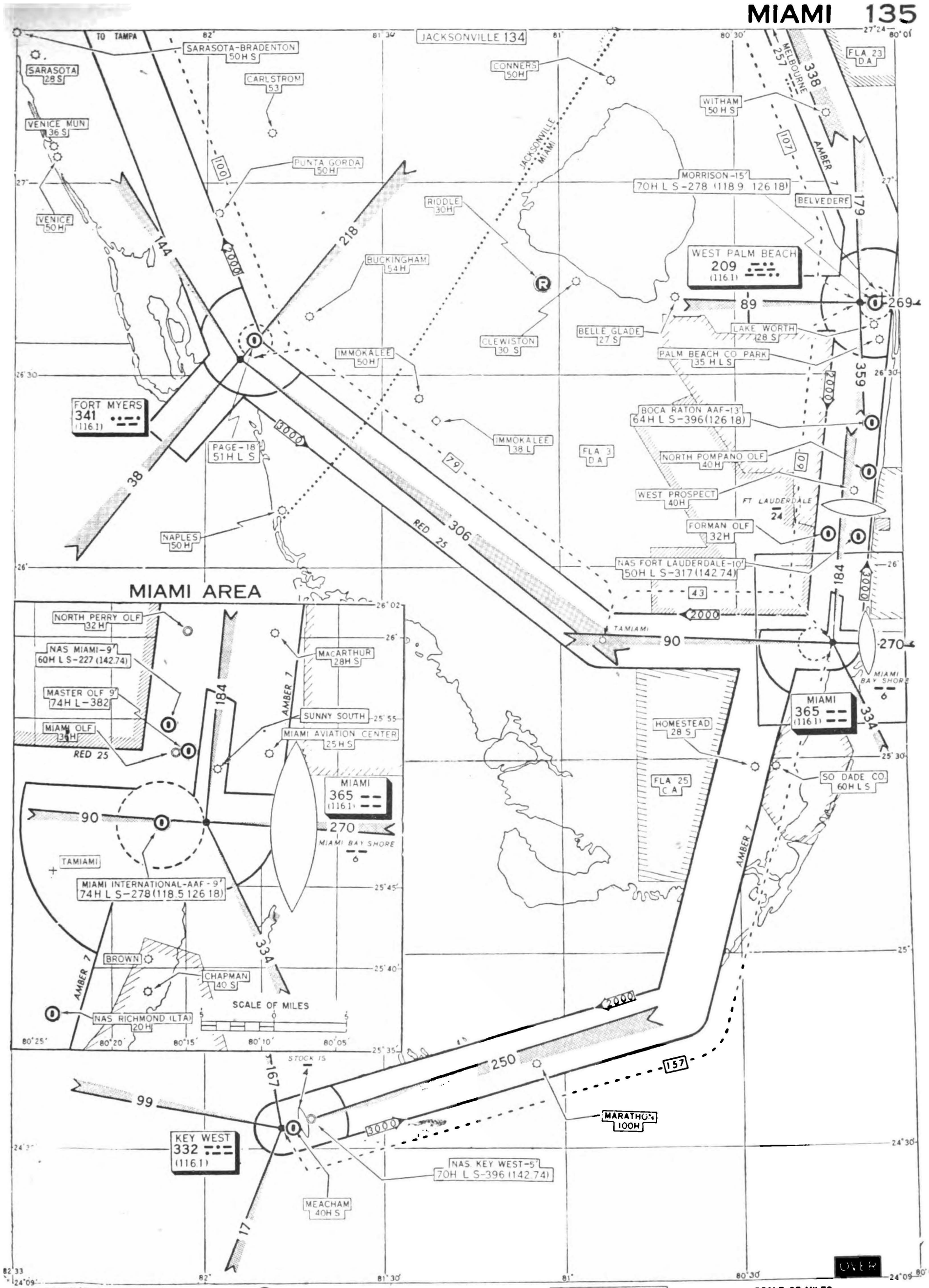
FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Osceola(Sanford)	10 SSE,lake SE	25	40h	
(A)PETER O.KNIGHT (Tampa)	3.7 S,bay S,E W	8	40h R1 L5 S6	91,80 oct Shipyard NE Rdo rec req.
(A)Pinecastle AAF(A)	3 ESE,lake NW	92	100h R3 L5 S4	91,100 oct.JP-1.No sto. No range. [ARDT
PINELLASCO MASTER	9.5 N,bay N	12	50h R1 L5 S6	80,91 oct No sto. OF (St.Petersburg) ENTRY.
Piper-Fuller (St. Petersburg)(NC)	4.8 WNW,RR E	21	32	
Plant City	3 E,hwy N	172	53	
Robinson(Plant City)	1.5 WSW,RR E	110	18 S1	80,91 oct.Pole line ESE
Roseland(Sebastian)	1.7 W,riv N,E	23	40h	
Ryan (Apopka)	1 N,lake NW	104	28 S6	80 oct.
St.Augustine	4 NNW,hwy W	10	42h S1	80, 91 oct.
Sanford	2.5 SE,lake N,S	57	60h	
Sawyer (Palatka)	2.6 S,RR SE	60	25	Trees N,E,S. (NC)
Sebring	4 SW,lake NE	200	20 S1	80 oct.Pwr line SW.
Skyland(Lakeland)	1 9 WNW,RR S	170	23 S6	80 oct.No sto.Trees S.
Skyport (Dunedin)	1.5 N,RR E	4	26 S6	80 oct.No sto.Pole line NE
Spruce Creek(Deland)	16 ENE	25	40h	3.5 mi N Sansula.
Stengel(Gainesv'l)	4 WSW,RR SE	70	38 S6	80 oct.Trees sur fld.
Switzerland	1.5 SE	31	40h	
(P)Taylor (Ocala)	1 SW,RR NE	72	40h L3 S6	80,91 oct.Lgts and ngt repairs prior req.
(P)Titusville-Cocoa (Titusville)	6 S,riv E	35	50h S6	80 oct. No sto.
* Titusville Int,20, MM-AG	1.3 NW,RR E	28	28 L3	
Tomoka (Daytona Beach)	7.8 NW	29	40h	
Valkaria (Melbourne)	8 SSE,RR E	26	40h	
VERO BEACH	1 NW,RR E	24	65h R1	
Wauchula (NC)	2.1 E,riv W	120	21	Trees N, E, NE.
(N)Whitehouse OLF (Jacksonville)(N)	13 W,RR S	102	40h L	B-2 lgts.
Wimauma (NC)	9.8 ESE,RR W	35	36	Cattle on fld.Bldg W.
Zephyrhills	1.5 ESE,RR W	92	50h	
Williams (Jacksonville)	3.3 WNW,RR E	25	31 S6	80 oct.No sto.Pole line E Info unver.
Witt (Lake City)	2 WSW,hwy S	200	36 S4	80 oct. No sto.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page xiii)(NC)-Not charted. → NEW OR REVISED DATA

JACKSONVILLE





● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS
Ⓤ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
10 0 10 20 30

RADIO

FLORIDA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOCA RATON AAF	396 (126.18)	CA	(3), 126.18 (6-24)
FORT LAUDERDALE FM	(-)	FM, 4°, 24.4	Miami
→ FORT LAUDERDALE NAS	317 (142.74)	CN	3105.4495;142.74 (7-18)
FORT MYERS (Page)	341 (FM)(116.1)	SBRAZ-VDT,38°,3.6	(4), 116.1
KEY WEST	332 (KW)(116.1)	SBRAZ-VDT	(4), 116.1
Key West NAS	396 (142.74)	CN, 70°, 5.8	(3);142.74 (sunrise to sunset)
Key West NAS (Seaplane) (NC)	272 (142.74)	CN	3105,142.74 (prior req.)
MASTER OLF (Miami)	382	CN	(3); 142.74 (7 sunset)
MIAMI BAY SHORE FM	(- -)	FM, 90°, 6	Miami
MIAMI	365(MM)(116.1)	SBRAZ-VDT	(3),116.1
Miami International Arpt.	278 (126.18) (118.5)	AC 270°, 2.3	(4); 131.9, 126.18, 118.5
Miami NAS	227 (142.74)	CN	3105,4495, 142.74
MORRISON FIELD (West Palm Beach)	278 (126.18) (118.9)	C	(4), 118.9, 131.9 only
STOCK ISLAND LFM	(-)	LFM, 70°, 4	Key West
WEST PALM BEACH (Morrison Field)	209 (DWZ) (116.1)	BMRAZ-VDT,89°,2.4	(3), 116.1

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arcadia	2 SE,hwy W	60	30	Trees around fld.
Belle Glade	1 NNE,lake W	17	27 S6	73 oct. No sto. Light acft.
(A) Boca Raton AAF (A)	2 NNW,canal E	13	64h R1 L5 S6	73, 91, 100 oct. Twr SE.
Brown (Miami)	10 SSW,RR NW	10	20 S6	80, 91 oct. No sto. Trees E.
Buckingham (Ft.Myers)	10 E,riv SW	23	54h	
Carlstrom (Arcadia)	7 SSE,hwy N	56	53	
Chapman (Miami)	10 SW,RR W	3	40 S6	80,91 oct. No sto. Pwr line W.
Clewiston	1.6 SW,RR N	19	30 S6	80 oct. Pole line N, E, S, W.
Conners (Okeechobee)	2.5 NW, RR S	34	50h	
Dorr (Arcadia)	11.5 E,hwy N	74	53	
(N) Forman OLF (Ft. Lauderdale) (N)	6.5 WSW	7	32h	INACTIVE.
(N) Fort Lauderdale NAS	3.5 SSW,RRW	10	50h R1 L5 S4	91, 100 oct. No sto. (N)
Homestead, mun.	2 NE, rd N	8	28 S6	80 oct.
Immokalee Airfield	1.3 ENE,RR W	20	50h	
★ Immokalee Int, 13, TM-MM	5.25 SE,RR SW	23	38 L2	
(N) Key West NAS (N)	7 ENE	5	70h R2 L5 S4	91, 100 oct. No sto.
Lake Worth	2 W,hwy N	12	28 S1	80 oct.
MacArthur (Hollywood)	1 SW,RR E	12	28h S4	80, 91 oct. No sto. Trees SE.
Marathon	1.8 ENE,hwy S	6	100h	
(N) Master OLF (Miami)(N)	8 NNW,RR W	9	74h R1 L5	Pwr line SE.
MEACHAM (Key West)	2.3 E,ocean S	4	40h S1	80,91 oct. ARPT OF ENTRY.
Miami Aviation Center (Miami)	7.5 NNE,bay E	8	25h S6	80, 91 oct. No sto.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page 111) (NC)-Not charted. → NEW OR REVISED DATA

FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) MIAMI INTERNATIONAL - AL - AAF	5.5 NW,RR S	9	74h R2 L5 S6	91, 100 oct. JP-1. FEE. 2-way radio on req. AIRPORT OF ENTRY.
(N) Miami NAS (N)	10.7 NW,canal N	9	60h R1 L5 S6	91, 100 oct. No sto.
(N) Miami OLF (N)	7.9 NNW,RR E	61	30h	
(A) MORRISON (West Palm Beach) (A)	2 W,canal S	15	70h R2 L5 S5	73 100 oct. CLOSED. FOREIGN CLEARING STATION
Naples	2 NE,RRs E,W	8	50h	
(N) North Perry OLF (Hollywood)	6.3 W	9	32h	
(N) North Pompano OLF	1.5 NE,RR W	21	40h	(Pompano)
PAGE (Ft. Myers)	4 S,RR SE	18	51h R1 L5 S6	80, 91 oct. Ground traffic.
Palm Beach County Park (Lantana)	2 WNW,lake N	16	35h L5 S6	80, 91 oct. Fld lgts prior req. Lake E
(P) Punta Gorda	5 ESE,hwy SW	22	50h	
Punta Gorda, mun.(NC)	3 SSE,hwy E	4	24	
(N) Richmond NAS (LTA)	15 SW Miami	13	20h	INACTIVE. (N)
Riddle (Clewiston)	7.6 W,hwy N	19	30h	Use rnwys only.
SARASOTA-BRADENTON (Sarasota)	3.5 NNW,hwy W	24	50h L5 S6	80, 91 oct.
Sarasota, com.	2.5 E,RR S	25	28 S1	80 oct.
Sunny South (Miami)	6 N,hwy N	12	27	
Tamiami (Miami)	12 W		35h S4	80, 91 oct. No sto. Data not verified.
Venice	2 S,RR E	15	50h	Pole lines N, E.
Venice, mun.	0.5 SE,RR E	20	36 S2	80 oct.
West Prospect (Oakland Park)	2.5 WNW	14	40h	Trees sur field.
(P) Witham (Stuart)	1.5 SE,RR SW	17	50h S1	
So.Dade Co.(Homestead)	5 E	8	60h L5 S6	87 91 oct. No sto.
→ Belvedere (West Palm Beach)	2 SW	17	25 S5	

DENVER—LOS ANGELES

RADIO

CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURBANK (Lockheed Air Terminal)	248(BU)(116.1)	SML-VDT;93°.3	(3);116.1
BURBANK LFM	(- -)	LFM 97°, 1.5	Burbank
CHATSWORTH	341 (L)	FMK;277°, 10.6	Burbank
CHATSWORTH LFM	(. . - - - -)	LFM, 276°, 10.5	Burbank
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
DOWNEY	379 (V)	FMK; 77°, 11	Los Angeles
EL TORO MCAS	3295(142.74)	CN	3105,4495;126.18,142.74
GLENDALE	371 (S)	K; 97°, 7.3	Burbank
GRAND CENTRAL ARPT (Glendale)	201	CI	(4);131.9, (A-sunset)
HAWTHORNE NORTHROP	396 (126.18)	CA	(3);126.18 (730-2230)
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LOCKHEED AIR TERMINAL (Burbank)	278 (126.18) (118.3)	AC	(4);131.9,126.18,118.3
LONG BEACH	233(HB)(116.1)	SBMRLZ-VDT	(3);116.1
Long Beach Airport	347 (126.18) (118.5)	AC; 298°, 3.9	(4);131.9,118.5,126.18
LOS ALAMITOS NAAS	317 (142.74)	CN	3105;142.74 (A-1730)
LOS ANGELES	260 (LA)	CBRAZ-DTX	(3)
Los Angeles Airport	272 (126.18)	C (ILS);244°, 3.8	(4);116.1,126.18
NEWHALL (Int)	209(NH)(116.1)	BMRL-VDT;317°, 0.1	(4);116.1
ONTARIO ARPT	219(126.18)	CI	(4); 126,18, 116.1
SANTA ANA (Navy)	472(NTK)(116.1)	BMRLZ	3105;142.74 (13-C)
Santa Ana NAS	6970(142.74)	CN;250°, 0.6	3105,3195;142.74 (flying hrs & req)
SANTA MONICA AIRPORT	272 (126.18)	CI	(3);126.18 (6-18)
TERMINAL ISLAND NAS (San Pedro)	338 (142.74)	CN	(3);142.74 (flying hrs)
CASTAIC FM	(- - - -)	FM, 323°, 41	Los Angeles

COLORADO

AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DENVER (Stapleton Airfield)	379 (DV) (111.1)	CBMRAZ-VDTX;159°, 2.5	(3); 131.7
DENVER (9 mi ENE Stapleton)	109.1 (DV) 111.1	VAR-VDT	(4); 131.7
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
LOWRY FIELD (Denver)	396 (126.18)	CA	(3);126.18
SKY RANCH ARPT (Denver)	206	CI	(3) (sunrise to sunset)
STAPLETON AIRPLD(Denver)	278 (126.18) (118.7)	AC (ILS)	(4);131.9,126.18
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

— DENVER AREA —

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
STAPLETON, COLORADO	110.3	335	206° Mag.	IM	MM ·····(.64)	OM --(4.2)	
					MMK	OMK	

— LOS ANGELES AREA —

LOS ANGELES, CALIFORNIA	109.9		247° Mag.	IM (.05)	MM	OM (2.45)	
					MMK	OMK	

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

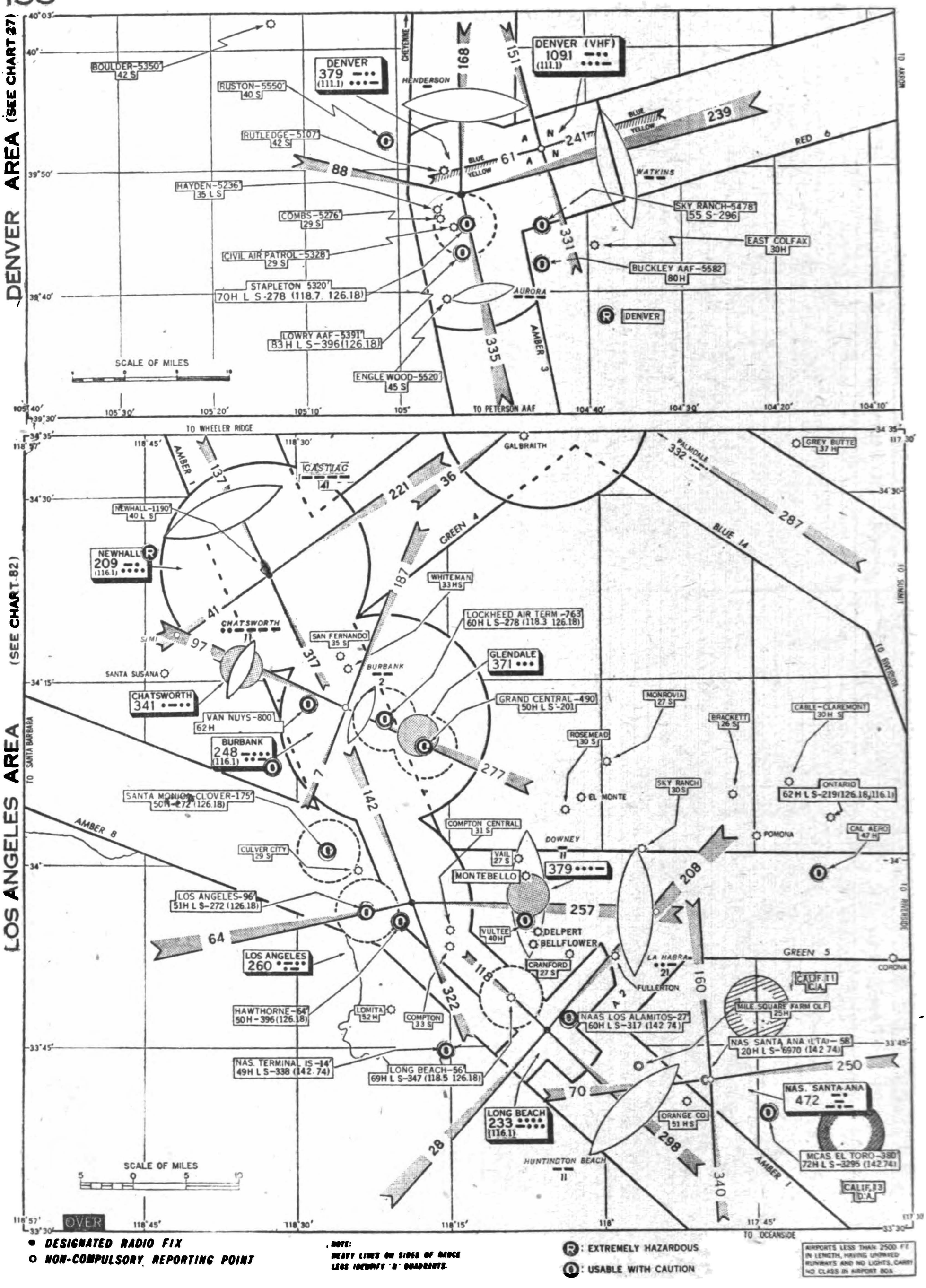
CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
→ Bellflower	1.2 NE;rlv E	80	24 S4	80 oct.No sto.
Brackett (Pomona)	3 NW;hwys S,E	1010	26 S6	80 oct. Fence W.
Cable-Claremont	1.8 ENE;RR E	1400	30h S4	80,91 oct.
Cal Aero (Ontario)	5 SSE;hwy W	625	47h	Rest'd to D.P.C.
Compton	1.5SW;hwyE,W,N	90	33 S6	80 oct. Poles E. N.
Compton Central(Compton)	2 NW;RR W	100	31 L S6	80,91 oct. No sto. R-2 lgts req
Corona	2.3 ESE; RR N	645	22 S4	80,91 oct. Pole line W.
Cranford (Artesia)	2.1 NE;RR W	55	27 S6	80 oct. Pole line S.
Culver City(Los Angeles)	9 WSW;RR S,W	25	29 S6	80 oct. Poles NE.
El Monte	1 NNE;rd E	300	21 S6	80 oct. Trees SW. Bldgs NE
(N) EL Toro MCAS (N)	3.7 NW;RR SW	380	72h R1 L5 S4	73,87,91,100 oct.
Fullerton	3 W;RR N	95	18 L1 S6	80 oct.
Galbraith (Palmdale)	0.3 W;RR E	2660	21 S1	73,80 oct.
Gardena Valley (Gardena)	2 NW; RR SE	50	23 S6	80 oct. Pole line E.
Grand Central (Glendale)	2.2 NW;bet RR and river	490	50h R1 L5 S6	73,83,91,100 oct.
Grey Butte (Victorville)	22 W	3050	37h	Mts. S.
Hawthorne	1.2 E;RR S	64	50h R1	Poles W. Closed to transients.
Hughes (Culver City)(NC)	3.6 SSW;RR N	15	91	Pole line NE. RESTRICTED.
LOCKHEED AIR TERMINAL (Burbank)	3.5 WNW;RR S	763	60h R2 L6 S6	73,80,91,100 oct. No sto. Two-way radio required.
Lomita Landing Strip	1 W;hwy S	95	52h	Mts. S.
(A) LONG BEACH	3 NE;RR W	56	69h R2 L6 S6	80,91,100 oct. JP-1. No sto.
(N) Los Alamitos NAAS (N)	1 SE;rlv W	27	60h R1 L5 S4	73,91,100 oct.
(A)(N) Los Angeles(MinesFld)	9.5 SW;RR E	96	51h R3 L6 S6	91,100 oct.Rdo req.
(N) Mile Sq.Parm OLP (Westminster)(N)	3.5 SE;rlv E	44	25h L	Pwr lines S
Monrovia	0.5 SE;RR S	500	27 S6	80,91 oct.
* Newhall Int.3A LA-SP	2.2 NW;RR E	1190	40 R1 L3 S1	80 oct. for airlines.
Norco	2.5 N;RR S	590	14 S1	80 oct.
Ontario	1.5 E;bet RRs	934	62h R1 L5 S4	80,91,100 oct.
Orange Co. (Santa Ana)	5 S;at fork rds	45	51h S6	80-100 oct.
(N) Palisades OLP (N)(NC)	2 E Costa Meza	107	25	Bay N.W.
Pomona	1.5 SSE;rlv S	775	20 S6	80 oct.
Rosemead (El Monte)	1 W;RR N	255	30 S6	80,91 oct. No sto.
San Fernando	1.2 E;hwy SW	1150	35 S6	80 oct. Poles SW.
(N) Santa Ana NAS (LTA)(N)	3.6 SE;RR NE	58	20h R2 L5 S4	91,100 oct. No sto.
(P) Santa Monica	2.6 ESE;rd E	175	50h R1 L5	No hen.Lgts prior req.
Santa Susana	0.5 S;RR N	955	19 S6	73 oct.No sto. Pwr line W.
Sky Ranch (Puente)	1.3 E;RR S	402	30 S4	80 oct. No sto.
(N) Terminal Is. NAS (San Pedro) (N)	2 ENE	14	49h R1 L6 S1	91,100 oct. NAPC.
Vail (Los Angeles)	6.5 E;RR SW	175	27 S6	80,91 oct. Radio repairs.
→ Van Nuys Metropolitan	2.8 NW;RR N	800	62h	Closed,emergency use only.
Vultee (Downey)	1.5 SSE;hwy W	100	40h L1	60' trees WSW. RESTRICTED.
Whiteman (San Fernando)	2 SE;RR N	1000	33h S6	80 oct. Pole line NNW,NE,SW.
→ Delpert Apk(Norwalk)	1.5 W;hwy N	90	21 S6	80 oct.No sto.Pole
Montebello	2 SSW;RR S	180	34 S6	80,91 oct.

COLORADO

Boulder	3 ENE;RR NW,S	5350	42 S5	80,91 oct. Bldg. N
(A) Buckley (Denver)(A)	12.5 ESE	5582	80h	INACTIVE.
Civil Air Patrol (Denver)	3.9 E	5328	29 L S6	80 oct. Flood lgts.
Combs (Denver)	3 NE;RR N	5276	29 S6	80,91 oct. Pole line N. S.
East Colfax (Watkins)	2.7 WSW;hwy N	5650	30 S4	73 oct. Poles N. NW.
Englewood	6.8 SSE;hwy S	5520	45 S6	80,91 oct. No sto.
(A) Lowry (Denver) (A)	5.3 ESE	5391	83h R1 L5 S6	91,100 oct. JP-1.
Ruston (Denver)	10 NNW;hwy W	5550	40 S1	80,91 oct. Pole line W.SW.
Rutledge (Dupont)	1 S;bet RR;hwy	5107	42 S6	80 oct. Pole lines sur fld.
Sky Ranch (Denver)	12.6 E;RR S	5478	55 R1 S6	73,80,91 oct.
STAPLETON (Denver)	5 ENE;RR N	5320	70h R3 L6 S6	80,91 oct.
Vest Acft. Co. (Denver)	3.8 NE;hwy W	5236	35 L2 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (See page xiii) (NC)-Not charted. → NEW OR REVISED DATA



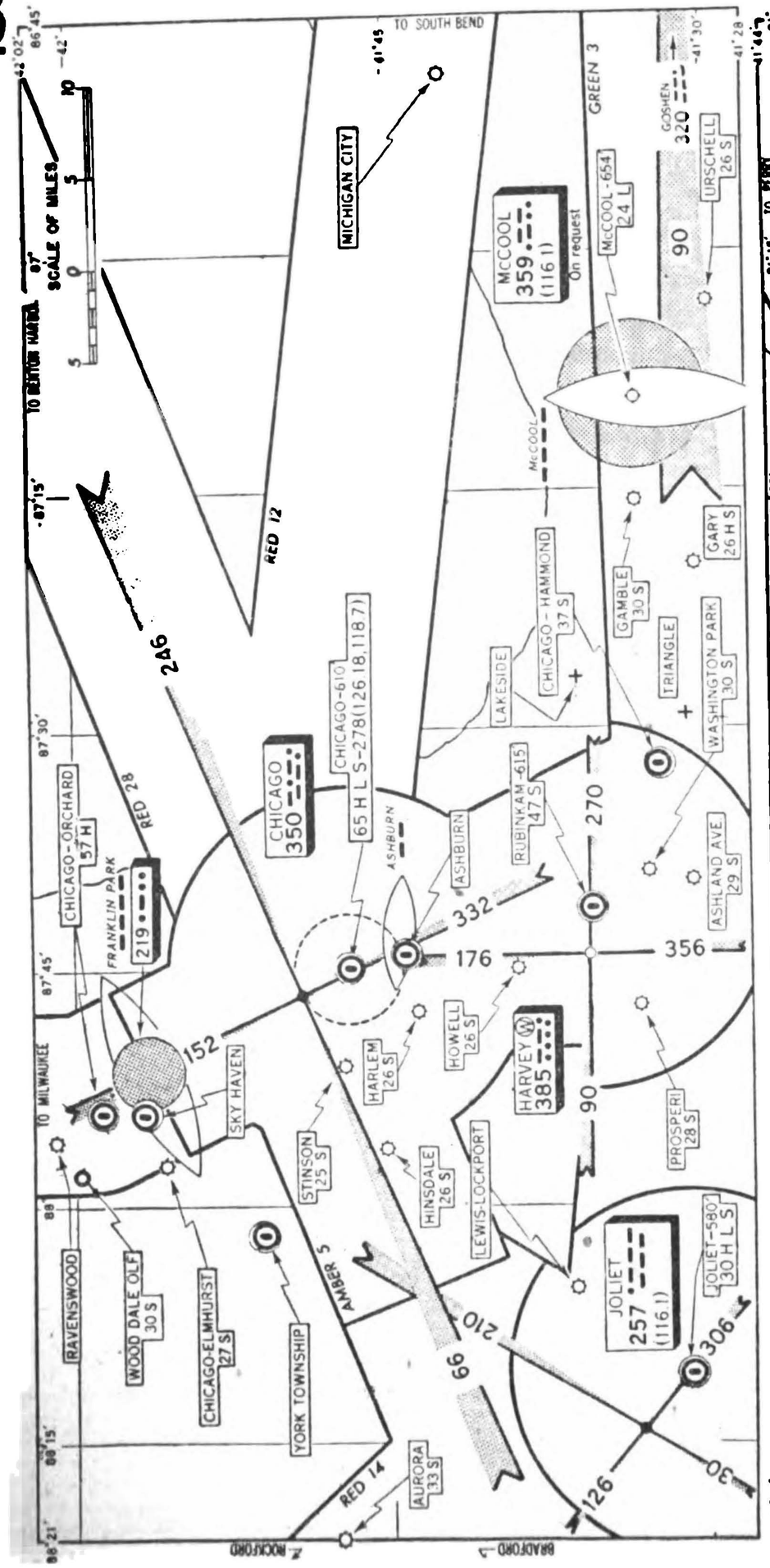
- DESIGNATED RADIO FIX
- NON-COMPULSORY REPORTING POINT

NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 'B' QUADRANTS.

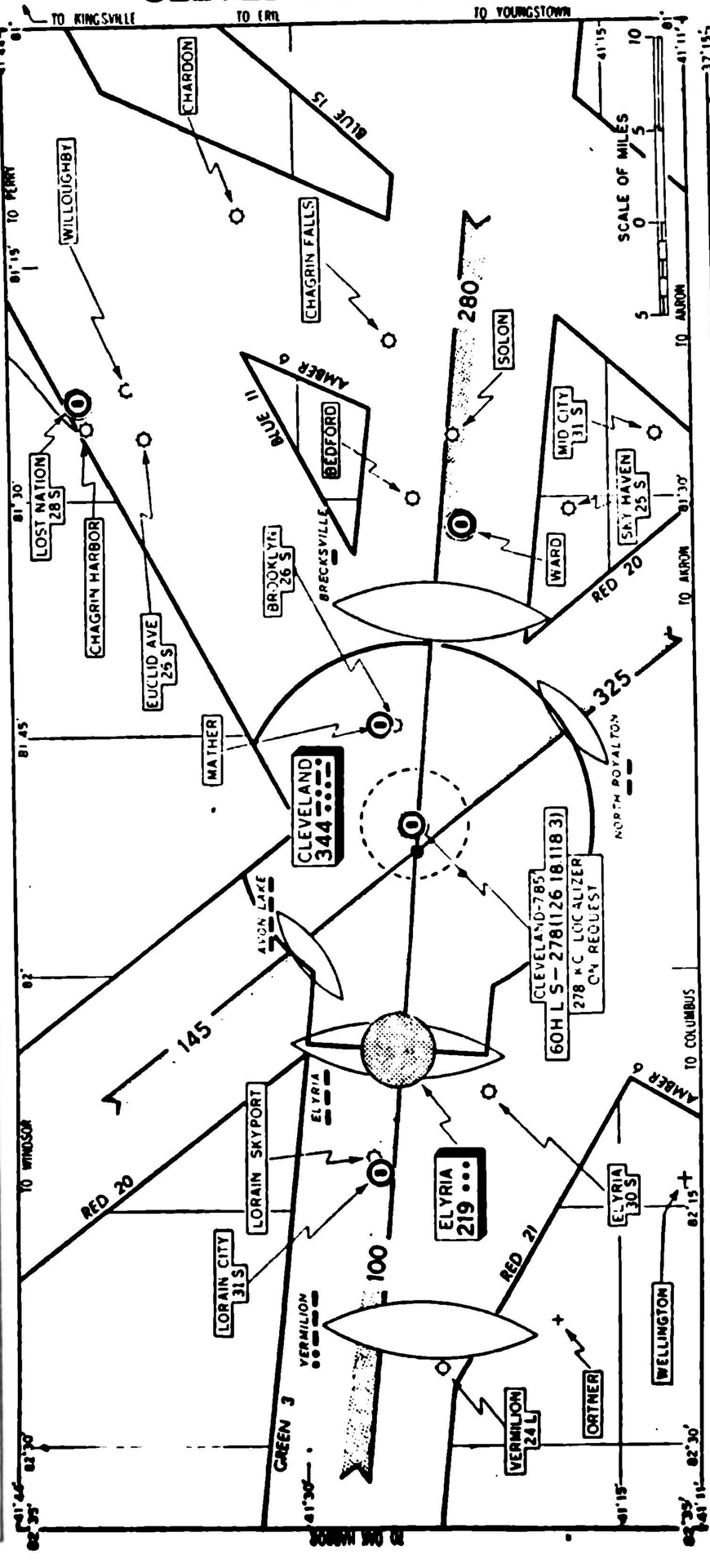
(R): EXTREMELY HAZARDOUS
(Q): USABLE WITH CAUTION

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

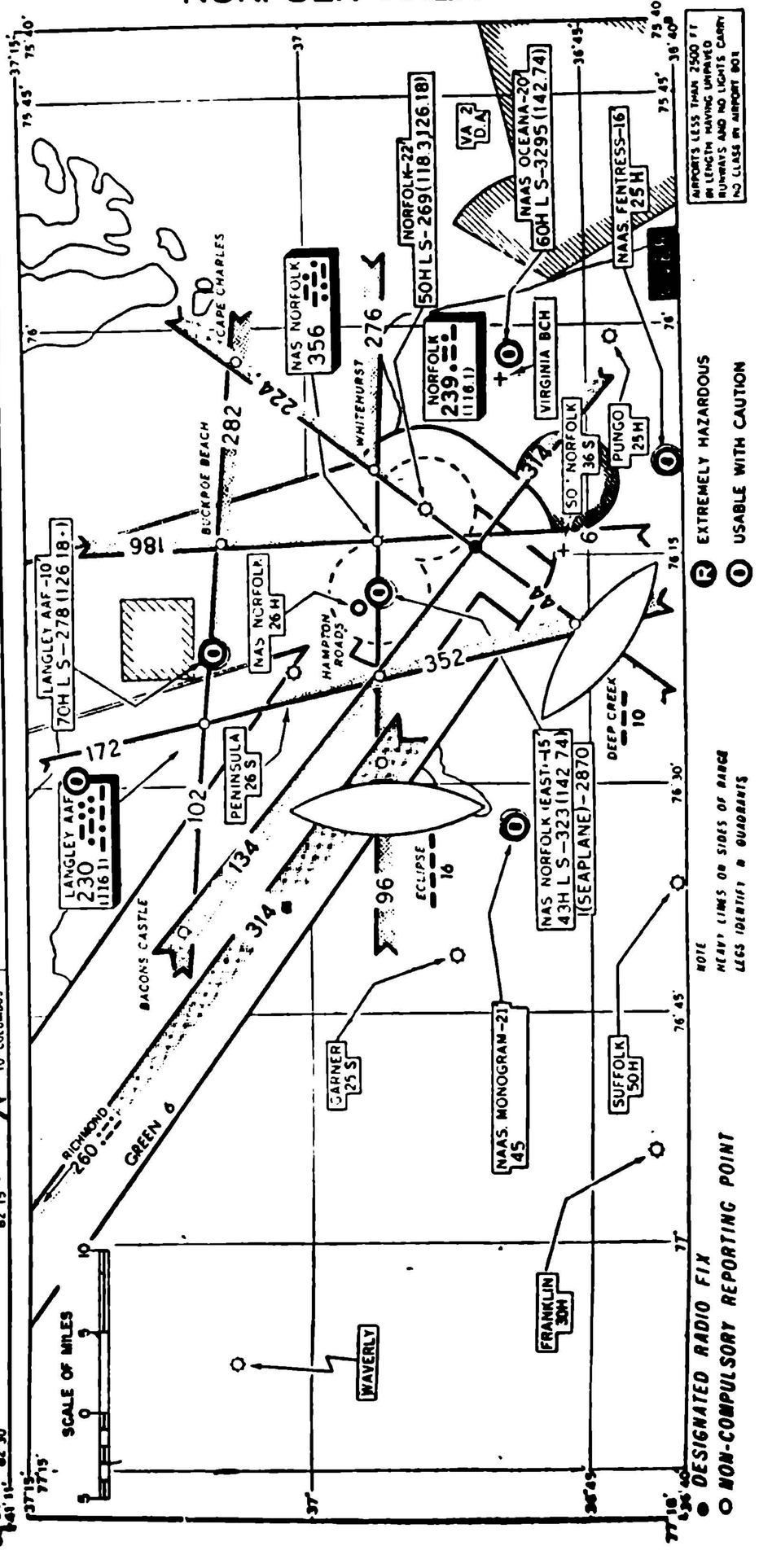
CHICAGO AREA (SEE CHART 34)



CLEVELAND AREA (SEE CHART 38)



NORFOLK AREA (SEE CHART 111)



CHICAGO–CLEVELAND–NORFOLK

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
CHICAGO	190(CG)(110.1)	SBRAZ-VDTX	(1);116.1
Chicago Airport	278(126.18) (116.7)	AC (ILS);152°, 2.2	(4);111.9,126.18,118.7
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
FRANKLIN PARK	319 (L)	FMX; 332°, 9.5	Chicago
HARVEY (Rubinkam)	387 (GB)	MLS; 90°, 2.2	
JOLIET	277(JO) (116.1)	SBRAZ-VDT; 120°, 3.0	(4); 116.1

INDIANA

McCOOL (Int)	359(ML) (116.1)	MRVI	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

OHIO

AVON LAKE LFM	(- - - -)	LFM, 325°, 8.1	Cleveland
BRECKSVILLE FM	(- - -)	FM, 30[illegible]°, 10.3	Cleveland
CLEVELAND	344 (CV)	SBRAZ-VDTX	(3)
Cleveland Airport	273 (126.18) (119.3)	AC (ILS);100°, 0.7	(4); 111.3, 126.18
ELYRIA FM	(- - -)	FM, 280°, 10.9	Cleveland
ELYRIA	319 (S)	FMX, 280°, 10.9	Cleveland
NORTH ROYALTON LFM	(- -)	LFM, 145°, 10.9	Cleveland
VERMILION FM	(. - - - -)	FM, 280°, 26	Cleveland

VIRGINIA

DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk NAS East Field
LANGLEY FIELD (Army)	230(DLY) (116.1)	SBMRAPZ-VDT	(3); 116.1
Langley Field	278 (126.18) (116.1)	CA; 102°, 3.5	(4); 126.18 only
NORFOLK	239(NW)(116.1)	SBMRLZ-VDT	(4);116.1
Norfolk Airport	269 (126.18) (118.3)	AC; 44°, 3.4	(4);131.9,126.18,118.3
Norfolk (Navy)	356 (NGU)	BMRLZ	
Norfolk NAS(East Fld)	323 (142.74)	CN; 276°, 2.9	(3); 142.74
Norfolk NAS(Seaplane)	2870	CN	2870 (7-17 & on req)
OCEANA NAAS	3295(142.74)	CN	3105,4495;142.74(745-1830)

CHICAGO AREA

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. on mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CHICAGO, ILL.	109.9		132° Mag.	IM ·····(.04)	MM	OM --(1.89)
					MMK 201 ···(.71)	OMK

CLEVELAND AREA

CLEVELAND, OHIO	109.9		54° Mag.	IM ·····(.06)	MM	OM -(4.75)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Ashburn (Chicago)	12 SW;hwy W	620	16 S4	73,80 oct.Unsafe after rain.
Ashland Ave(Chicago Hgts)	1.5 NW;hwy S	675	29 S6	80,91 oct.Obsts sur fld.
Aurora	3 NNW	701	33 S4	80 oct. Twr NE;stack SE.
(A,N)CHICAGO	9 SW of loop	610	65h R3 L6 S6	73,80,91 oct. FXE.
Chicago-Elmhurst(Elmhurst)	2.5 N;hwy SW	707	27 S6	80,91 oct.Poles S,E.
(A) Chicago-Orchard (A)	16 NW;RR W	657	57h	
Chicago-Hammond(Lansing)	1.5 S;RR N	660	37 L1 S6	73,80oct.Obsts sur. fld.
Harlem (Oaklawn)	2.2 WNW;hwy W	610	26 S6	80 oct.Pole line E.
Hinsdale	3 S;hwy SE	710	26 S6	73,80 oct. Rolling ground.
Howell (Blue Island)	3 W; hwy E	600	26 S4	80 oct.Obsts sur fld after 2400
Joliet,22,LS-OG	5 W;riv W	580	30h R1 L4 S4	80, 91 oct.Flood lgts prior req

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page 111) (NC)-Not charted. → NEW OR REVISED DATA

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Lewis-Lockport(Lockport)	2.2 WNW;hwy E	664	26 S6	80,91 oct. Twr SE.Obsts sur fld.
Prospect (Tinley Park)	1.7 SSW;hwy W	695	28 S6	80 oct.
Ravenswood (Des Plaines)	2.5 SW;hwy E	650	17 S6	80 oct. No sto.
(P) Rubinkam (Harvey)	2.5 SW;hwy N	615	47 L1 S5	73,80,91 oct.Use W part only.
St. Charles (NC)	3.5 E;RR E,S	760	18h	Pole line N.
Sky Haven(Bensenville)	1.5SE;bet RR,rd	650	22 S1	73,80oct. Use strips only.
Stinson (La Grange)	2 SE;hwy SE	644	25 S6	80,91 oct.Pole line S,W.
(P) Washington Park(Homewood)	1.5 SE;hwy E	625	30 S6	80,91 oct.Allway area.
Wood Dale (Glenview)	10.5 SW	711	30 S2	80 oct.
York Township(Lombard)	2 SSW;hwy N	726	20 S6	80 oct.Use strips.Pole line N,E.

INDIANA

Gamble (Hobart)	1.8 NNW;hwy S	650	30 S4		73,80 oct.Obst sur fld.
Gary	6 S;hwy W	610	26h S6		80,91 oct.Trees N,E,S.
★ McCool Int,3,CG-LG	2 SW;hwy S	654	24 R1 L3		
Michigan City	4 E;RR N	650	24 S1		80,91 oct.Pole line E,S,W.
Urschell(Valparaiso)	1.7 NNE;hwy E	766	26 S2		80 oct.Pole line N.

OHIO

Bedford	2 NE;hwy W	1060	17 S2		73 oct.
Brooklyn (Cleveland)	5.5 SW;RR S	780	26 S2		73 oct.
Chagrin Falls	3 E;hwy SW	1220	23 S4		80 oct. Pole line N.
Chagrin Harb.(Willoughby)	2.5 NNW	620	22 S6		80 oct. Pole line W.
Chardon	2.8 S	1230	22 S1		80 oct. Pole lines sur fld.
(A) CLEVELAND	8.5 SW;riv W	785	60h R3 L6 S6		73,80,91,100oct.JP-1,FXE, ARPT. OF ENTRY
Elyria	1.6 SSW;RR NW	745	30 S2		80 oct. Poles SE.
Euclid Ave.(Willoughby)	1.5 WSW;RR N	640	26 S6		80 oct.Poleline S,hi-line N.
→ Lorain City (Lorain)	2.1 SW;RR N	610	31 S1		80 oct.Pole line NE,SE.
Lorain Skyport(Lorain)	2.8 W;lake NW	610	30 S1		80 oct.Pole line S,SE.Rnwy data unver.
Lost Nation (Willoughby)	3 N;lake NW	626	28 S6		80,91 oct.Obsts sur fld.
Mather (Cleveland)	5 SW;RR S	740	19 S2		80 oct.
Mid City (Hudson)	2 S;RR S	1080	31 S4		80 oct.Poles W,NW.
Ortner (Wakeman)	4 NNE;RR S		26 S1		73 oct.Data not verified.
Sky Haven (Northfield)	2.5 SSE;RR NE	1040	25 S4		73,80oct.No sto.Pwr line W,S.
Solon	1.1 SSE;RR NE	1034	24 S6		73,80 oct.Pole line SE,W.
★ Vermilion Int, 28,CG-LG	3.7 SW;RR SE	610	24 L3		
Ward (Bedford)	1.5 S;RR E	980	20 S4		80 oct.No storage.
Willoughby	1.2 E;RR NW	700	22 S6		80 oct. Pole line sur fld.

VIRGINIA

(N) Fentress NAAS (N)	2.5 ESE;hwy N	16	25h		INACTIVE.
(P) Franklin	1.7 NE	38	30h		
Garner's (Windsor)	4.8 NNE;hwy W	80	25 S2		80 oct.
Glen Rock (Norfolk)(NC)	4.5 E;RR S	18	24		Twrs,pole line SW.
(A) Langley Field (A)	3 N Hampton	10	70h R2 L5 S6		73,91,100 oct.JP-1
(N) Monogram NAAS (Drivers)	2.8 W;riv W	21	45		INACTIVE. (N)
NORFOLK	5 ENE;RR SE	22	50h R2 L5 S4		80,91 oct.
(N) " NAS (Chambers)(N)	7 N;rd N	13	26h		CLOSED. Use East Field.
(N) " NAS (East Field)(N)	6 N;RR SW	15	43h R2 L5 S6		91,100 oct.NATS,NAFC.
(N) Oceana NAAS (N)	1 SW;RR N	20	60h R1 L5 S4		91,100 oct.No bcn.
Peninsula(Hampton)	2 WSW;RR N	12	26 S4		80 oct.
Pungo	0.8 NE	15	25h		
South Norfolk (Norfolk)	6 SSE		36 S4		Fuel.No sto.Data unverified.
(P) Suffolk	3.8 SSW;RR E	66	30h		
Waverly	2.5 NW;RR SW	115	17 S2		80 oct.Trees.brush sur fld.
Virginia Beach Va.	4.5W;RR,hwy N	15	42 S4		80,91 oct.Pole line N.Data unver.
Lakeside (Gary) Ind.	7.5 W		35 S4		73,80 oct. Unverified.
Triangle (Dyer) Ind.	2 NE		27		Unverified.

SEATTLE – PORTLAND – SAN ANTONIO – ST. LOUIS

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JERSEYVILLE PM	(-)	PM, 355°, 21	St. Louis, Mo.
SCOTT (Belleville) (Army)	263 (DCD)	SBRAR2-DT	(4)
Scott Field	396	CA; 49°, 1.8	(4)

MISSOURI

LAMBERT-ST. LOUIS ARPT. (St. Louis)	278 (126.18) (142.74)	AC (ILS)	(4); 131.9,126.18,142.74
ST. LOUIS(Lambert-St.Louis Airport)	209 (LS)	SBRAZ-DTX,256°, 2.2	(3)
ST. PETERS PM	(- - - -)	PM, 273°, 14.2	St. Louis
SPANISH LAKE	219 (L)	PMK, 69°, 7.8	St. Louis
SPANISH LAKE PM	(- -)	PM, 69°, 7.9	St. Louis

OREGON

PORTLAND	333 (PD)	SBRAZ-DT	(3)
Portland AAB	278 (126.18) (118.3)	AC, 171°, 3.1	(4);142.74,131.9,118.3,126.18
PORTLAND LPM	(- -)	LPM, 76°, 1.6	Portland
WILLAMETTE PM	(. - . -)	PM, 76°, 20.6	Portland

TEXAS

→ ALAMO (San Antonio) (San Antonio Airport)	344(JR)(116.1)	MLZ-VDT	(3); 116.1
BROOKS FIELD (San Antonio)	396 (126.18)	CA	(3); 126.18
KELLY FIELD (San Antonio)	219 (126.18)	CA	(3); 126.18
RANDOLPH (San Antonio)(Army)	352 (DRQ)	BMRLZ	(3)
Randolph Field	272 (126.18)	CA; 322°, 2.04	(3); 126.18
SAN ANTONIO (Kelly Field)	254(ZN)(116.1)	SBRAZ-VD, 107°, 1.8	(4); 116.1
San Antonio Arpt.(Alamo Fld)	278 (118.5)	C	(4); 118.5,131.9,126.18
SPRING BRANCH PM	(-)	PM, 354°, 21.6	Alamo

WASHINGTON

HOBART PM	(--)	PM, 88°, 15	Seattle
LAKEVIEW PM	(- - -)	PM, 175°, 25.5	Seattle
KING CO. AIRPORT (Seattle)	278(126.18) (118.3)	AC	(4); 131.9,140.1, 126.18,118.3
McCHORD (Tacoma)(Army)	272 (DTA)	BMRL	
McChord Field	396 (126.18)	CA (ILS),269°,1.7	(3); 116.1, 126.18
SEATTLE (King Co. Airport)	260(SA)(116.1)	SBRAZ-VDTX,09°,2.3	(3) 116.1
SEATTLE NAS (Navy)	332 (WN)	MH	(4) cont.
Seattle NAS	220 (142.74)	CN	(3); 142.74 (H-sunset) (QCA)
WASHOUGAL PM	(-)	PM, 63°, 17.5	Portland, Oregon
WOODLAND PM	(- - - -)	PM, 331°, 23	Portland, Oregon

– ST. LOUIS AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LAMBERT-ST. LOUIS, MO.	110.3		238° Mag.	IM ·····(.06)	MM	OM --(4.50)
					MMK 201 ···(.60)	OMK

– SEATTLE AREA –

McCHORD, WASHINGTON	109.9	333.8	337° Mag.	IM (.26)	MM ·····(.85)	OM --(4.44)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.,
(4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Gundlach (Belleville)	1.8 E	514	23	Obsts surround fld.
Lakeside (E. St. Louis)	7 NNE; lake W	420	32 S6	73 oct.
Parks (E. St. Louis)	4.2 SW; RR SE	410	26 L1	25-75' obsts on fld.
Parks Metropolitan (East St. Louis)	3.5 SSW; RR W	420	17h S6	80, 91 oct.
(A) Scott (Belleville)(A)	7.5 ENE; RR S	444	55h R2 L5 S5	73, 91, 100 oct. JP-1.
Wadlow (Alton)	3.5 NNW	600	25 S4	80 oct.

MISSOURI

Black Walnut (St.Louis)	18 NNW	442	20	
Creve Coeur (St. Louis)	14.5 WNW;lake E	445	37	
Ellisville	0.4 NE; hwy S	750	16 S2	80 oct.
Kratz (St. Charles)	1.1 ESE; RR S	442	30 S6	80, 91 oct.
(A) LAMBERT-ST.LOUIS(St.Louis)	10.8 NW,hwy N,W	552	60h R3 L6 S6	80-100 oct. Rdo req.
Machens (NC)	1 NNW	450	41	
Meramec (Valley Park)	1.5 ESE; riv N	440	30 S2	80 oct. Pole line S.
(N) Neubeiser OLP (St.Louis)(N)	22 NNW; riv N	438	20h	
St. Charles	5.3 NNW; RR N	470	29 S6	80 oct. Poles E, N, NE, SE.
Sterling (St. Louis)	14 SSW; RR E	615	26 S4	80, 91 oct. Obsts surround fld.
Sylvan Beach (Penton)	2 NNW	442	42 S2	80, 91 oct. Pole line N.
Weiss (Kirkwood)	4 SW	430	15 S4	80 oct. Pole line NE, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page 1111) (NC)-Not charted. → NEW OR REVISED DATA

OREGON

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Aurora Flight Strip	1.6 NNW; hwy W	196	41h	
Barrett-Schuler (Woodburn)	2.8 WNW; RR E	200	29 S1	73 oct. Pwr line NNE.
Bernard (Beaverton)	1.4 NNW; RR S	188	18 S6	73, 80 oct.
Canby	0.5 NNW	150	17 S1	80 oct. Pwr line NE, SW.
→ Columbia Co. (Scappoose)	1.2 NE; RR W	55	40h S6	80 oct. Pole line N, NW.
Dwyer Landing Fld.(Portland	7 SE; RR NW	200	16	Obsts ENE, WSW. Ditch around strip.
→ Green Acres (Mulino)	1.9 SSW; RR W	269	18 S4	73,80 oct.No sto.Obst SSE.
Hillsboro	2.4 ENE; RR S	200	41h L5 S6	73,80 oct. No sto.
(A,N) PORTLAND AAB (A)	5 NNE; riv N	19	55h R2 L5 S6	73, 91, 100 oct. JP-1.
R. O. K. (Gresham)	2.2 W; RR S	285	26 S5	73 oct. No sto. Pwr line E, ENE.
→ Sky Park (Oregon City)(NC)	2.7 SE; RR NW	440	27 S6	80 oct. Pole line S.
Sportsman Arpk. (Newberg)	1 E; riv SW;RR N	173	23 S2	Ltd 80 oct. Trees NNE.
Troh's Skyport (Portland)	6 E; riv N	250	26 S6	80, 91 oct.
Troutdale	1 NW; RR S	34	46h L3 S6	73, 80 oct.
Portland Birdsdale(Portland)	8.5 E;RR N	220	23 S6	80,91 oct.

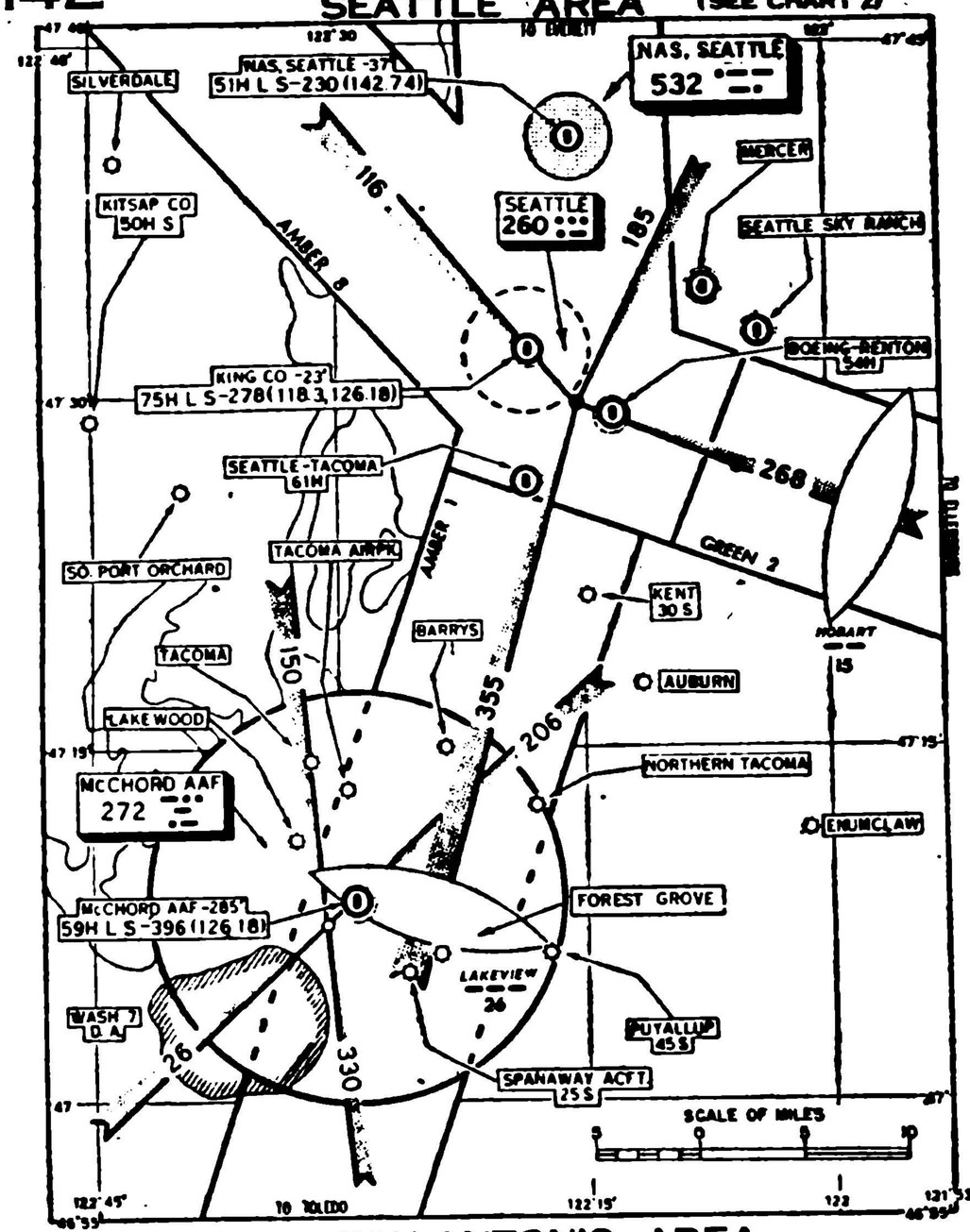
TEXAS

ALAMO (San Antonio)	7.8 N;RR SE	783	55h R2 L5 S2	73,80 oct.
Bexar Co. (San Antonio)	7.1 SSW; rd W	640	32 S6	80, 91 oct. Poles,trees N,NW,W,S.
(A) Brooks (San Antonio)(A)	6.5 SSE; RR W	594	52h R1 L5 S6	73,91,100 oct.
Cralez (Sayers)	1.8 W; hwy,RR N	650	41 S1	80 oct.
Davis (San Antonio)	6.7 N; RR SE	780	16 S1	80 oct.
Hurt (San Antonio)	6.5 WNW; hwy W	680	36 S6	80 oct.
(A) Kelly (San Antonio)(A)	6.8 SW, RR NE	676	75h R2 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEAR. STA.
Kuehler (New Braunfels)	1.7 SE; riv NW	720	18	Pole line NW. Cattle.
Lake (San Antonio)	10 S; RR E	700	23 S2	73 oct.
Leon Valley (San Antonio)	8.6 WNW;hwy E	710	40 S6	80,91 oct.Pwr line N,W, NW.
(A) Martindale(San Antonio)(A)	7.1 E; RR S	660	30h	
Mission (San Antonio)	4.5 S; hwy E	567	23 S6	80 oct. No sto. Pole line NNE.
(A) Randolph (San Antonio)(A)	15.8 ENE;RR NW	752	70h R2 L5 S6	91,100 oct. No sto.
Stinson (San Antonio)	6.2 SSE; RR E	567	49h	
Yates (San Antonio)	13.7 N; hwy W	968	33	
(A) Zuehl No. 6 (A)	0.8 NE; hwy NW	610	30h	

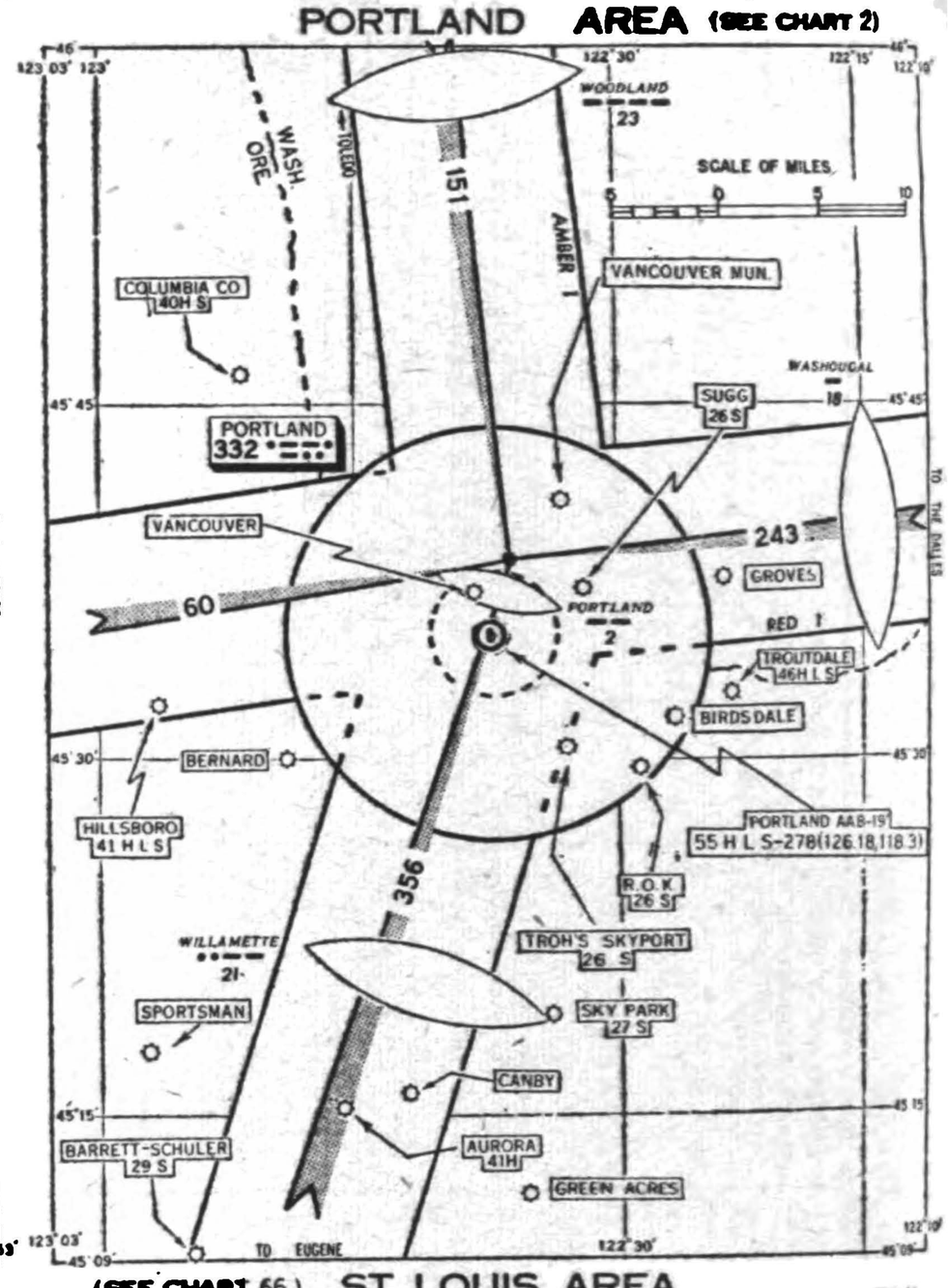
WASHINGTON

Barrys Sky Harbor (Tacoma)	2.3 ENE; riv SW	4	31 S2	Ltd 80 oct. Pole line E.
Boeing-Renton (Renton)	0.9 NW;lake N	32	54h L5	RESTRICTED, All lgts prior req.
Enumclaw	1.5 WSW; rwy E	740	20 S2	Ltd 80 oct. Pwr line E.
Groves (Camas)	2.8 N,hwy E	350	16 S1	Ltd 80 oct. Lake SW.
Kent	1.5 SSW; riv N	30	30 S6	80 oct.
(A) KING CO.-BOEING (Seattle)	6 S; riv SW	23	75h R2 L5 S6	80-100 oct.No sto. ARPT OF ENTRY. FOREIGN CLEARING STATION.
Kitsap Co. (Bremerton)	8 SW; hwy NW	482	50h L5 S6	80,91 oct.No sto. Lgts prior req.
Lakewood (Tacoma)	7.5 SSW;RR E	243	22 S1	80 oct. Trees ENE, WSW.
(A) McChord (Tacoma)(A)	7 SSW;lake SE	285	59h R3 L5 S6	73,91,100 oct.JP-1. FOREIGN CLEARING STN.
Mercer (Bellevue)	4.1 ESE;lake E	345	20 S4	80 oct. Tie-down sto.
Northern Tacoma (Puyallup)	1.3 N; RR N,S	20	19 S6	80 oct. No sto.
Puyallup	6 S; hwy W	520	45 S6	80,91 oct.Rnwy data unverified.
R. C. Sugg (Orchards)	3.6 SSE;hwy S	310	26 S6	80 oct. 6.8 E Vancouver.
→ Seattle Sky Ranch(Issaquan)	1.6 NNW;hwy S	50	15 S6	73,80 oct.No sto.hill S.
(N) Seattle NAS (N)	6.5 NNE;lake E	37	51h R1 L5 S6	91,100 oct.
(N) Seattle-Tacoma (Seattle)	10.5 S;RR E	405	61h	Trees and hills surround fld.
Silverdale	1.9 NW;rd E,S	350	19	Poles S. Emergency only.
→ South Port Orchard (Port Orchard)	7.5 SSW;lake S	350	19 S4	80 oct. No sto. Trees N, S.
Spanaway Acft Co.(Spanaway)	1.2 SSE;RR S	375	25 S1	80 oct. Pole line S.
Tacoma	4.4 W;hwy SE	369	22 S4	80, 91 oct.
Tacoma Airpark (Tacoma)	2.9 WSW;RR E	250	20 S1	Ltd 80 oct. Sharp drop W edge fld.
Vancouver	1 SE	26	19 S6	Ltd 80 oct. No sto.
mun.	6.7 ENE;hwy W	240	26 S1	80,91 oct.
Forrest Grove (Spanaway)	1.8 S;RR E	340	22 S6	80 oct.
→ Auburn	1.8 ESE;hwy S	276	20 S6	80 oct.Trees

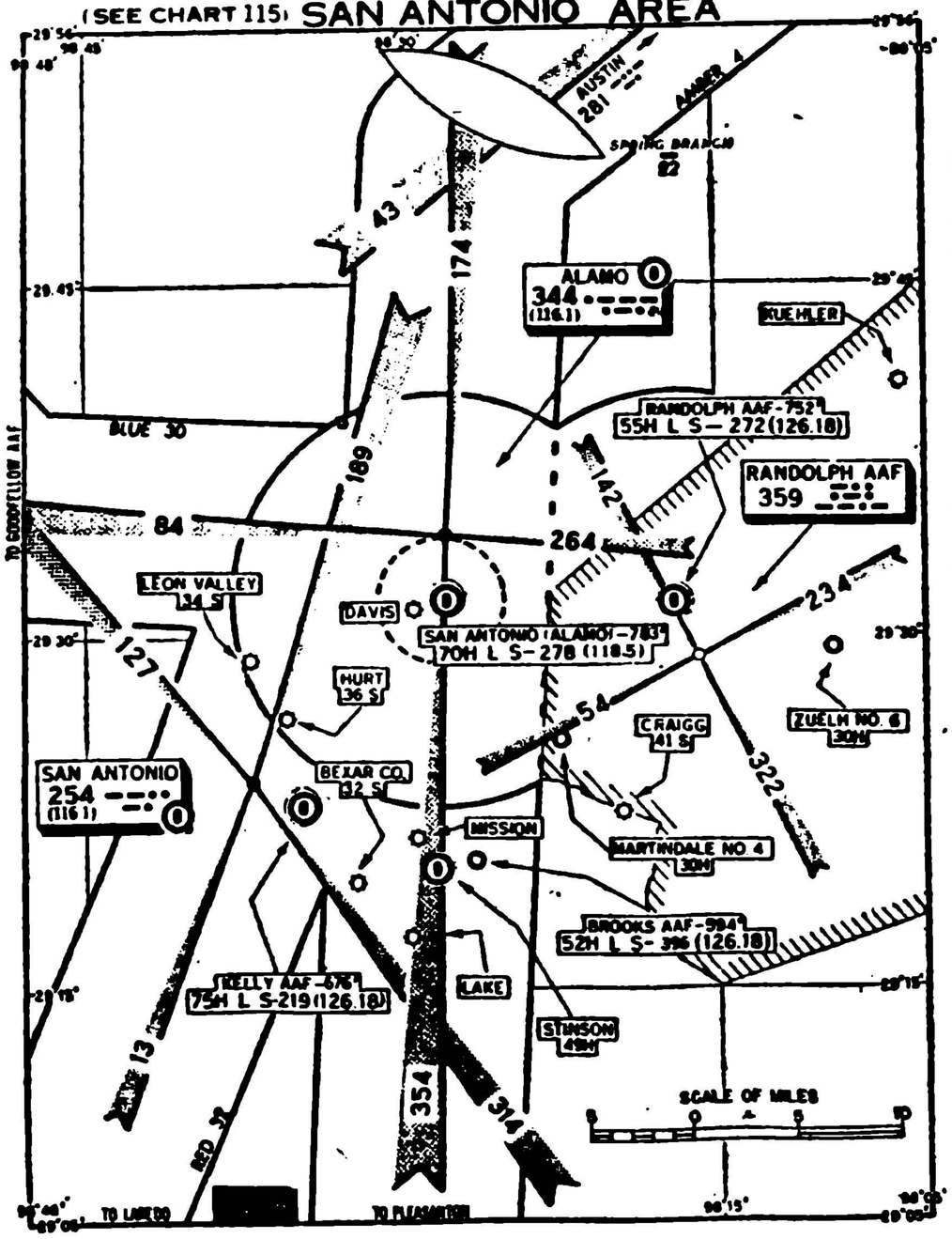
SEATTLE AREA (SEE CHART 2)



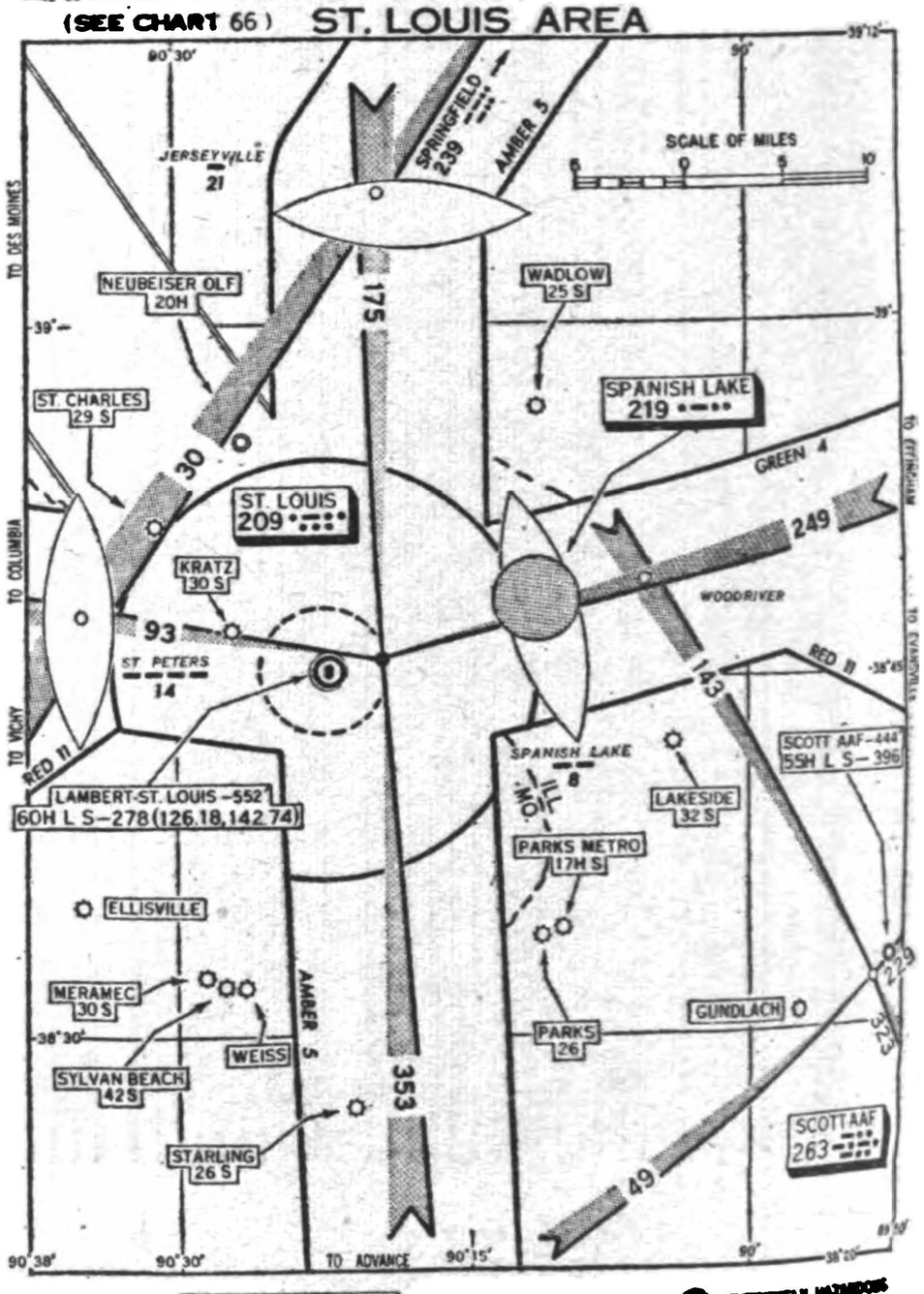
PORTLAND AREA (SEE CHART 2)



SAN ANTONIO AREA (SEE CHART 115)



ST. LOUIS AREA (SEE CHART 66)



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'A' QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

E: EXTREMELY HAZARDOUS

D: USABLE WITH CAUTION

Directory of Seaplane Bases and Anchorages

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
CALIFORNIA				
(N) Alameda NAS (N)	4.5 WNW	S.L.	211 R1 L5 S6	73,91,100 oct. Ramp; tractor.
(N) Corcoran, Tulare Lake	15.5 WSW	200	74 R1 L1	Buoys. Pole line N,E;dikes NW,W,S
Lakeport, Clear Lake	E of Lakeport	1325	Unl	Buoy.
Oakland	6 S	S.L.	S4	Ramp;beach;haul-out.Data unver.
(N) San Diego NAS (N)	4.5 WSW	S.L.	106 R1 L S6	87,100 oct. Ramps; haul-out.
(N) San Francisco CGAS (N)	9 SSE	S.L.	132 L5 S6	91,100 oct. Ramps; all facs.
(N) San Pedro NAS (N)	2 ENE	S.L.	Unl L1 S4	73-100 oct. Ramps; all facs.
CONNECTICUT				
Greenwich	0.8 S	S.L.	Unl	PRIVATE. Ramp. Congested harbor.
Stratford,United Acft.Corp	2 SW	6	53	PRIVATE. Ramp.
Westport	2 S	S.L.	Unl S4	80 oct. Float; marine railway.
DISTRICT OF COLUMBIA				
(N) Anacostia NAS (N)	2.4 SE Mon't	8	106 S4	87-100 oct.Ramp;all fac prior req
FLORIDA				
Avon Park,Lake Lotela	2 SE; RR SW	100	66 S1	80 oct. Beach.
(N) Banana River NAS (N)	11 SE Cocoa	S.L.	116 L S6	87,98 oct. Ramps; all facs.
Bradenton	Adj N	1	Unl S1	73 oct;80 oct req. Ramp;float.
Clercona,Hidden Acres	1.5 WNW	90	30 S6	80 oct. Data unverified.
Daytona Beach,Bob Orrell	2 N	S.L.	264 S4	Ramp; float.
" Raymond's	1.5 N	S.L.	Unl S6	80 oct;91 oct req.Ramps;piers;boa
Fort Myers,Gulf Airways	2 W	S.L.	Unl S4	80 oct.Ramp;all facs.Data unver.
(N) Jacksonville NAS (N)	7.2 S	S.L.	Unl R1 L5 S4	91,100 oct. Ramps;all facs.
" Riverside	Adj city	7	Unl S1	80 oct. Beach.Data unverified.
(N) Key West NAS (N)	7 ENE	S.L.	130 R1 L S6	91,100 oct. Ramps;buoys.ARPT OP
Lakeland, Municipal	Adj NE	145	Unl S1	80 oct. Data unverified. ENTRY
Lake Worth, Municipal	Adj city	S.L.	Unl S1	80 oct.Ramp;beach.Obsts E.Unver.
Leesburg, Hal Hoover's	1 N	15	Unl S1	80 oct.Ramp;beach;dock.Data unver.
Melbourne	Adj S	S.L.	Unl S1	80 oct. Float
Miami, Chalk's	2 E;causeway	N S.L.	Unl S4	80 oct. Beach;ramps;winch. ARPT OP ENTRY
(N) " Dinner Key CGAS (N)	2.5 SE	S.L.	150 L5 S4	100 oct. Ramps; haul-out.
" E.Coast Avia. Service	8 NNE	S.L.	132 S4	80 oct. Ramps;buoys. Obsts.
" Embry Riddle	2 E;causeway	S S.L.	65 S4	80 oct. Ramps.
" Miami Avia. Center	8.5 N	S.L.	Unl S1	80 oct. Data unverified.
Orlando Orlando Aviation Country Club	5 N	90	60 S1	80 oct. Ramp;beach. Data unver.
" Raymonds	2 W	70	50 S1	80 oct.Float.Twr NE.Data unver.
(N) Pensacola NAS (N)	5.3 SW	S.L.	116 R1 L1 S6	87-100 oct.Ramps; all facs.
(N) " Bronson NAAS (N)	12 WSW	S.L.	Unl L4 S4	87,91 oct. Ramps; all facs.
St. Augustine	Adj SE	S.L.	Unl S1	80 oct. Float; beach; dolly.
St. Petersburg,Albert Whitted	0.75 SE	S.L.	Unl S6	80,91 oct. Data unverified.
(N) " CGAS (N)	2.5 E	S.L.	Unl L S4	80-100 oct. Ramps.
" James Johnstone	7 W	S.L.	Unl S6	80 oct. Ramp; all facs.Data unver
" Pinellas County	11 NNW	S.L.	Unl S1	80 oct. Data unverified.
Tampa, Peter O.Knight	4 S; arpt W	8	Unl S6	80 oct. Ramps; all facs.
Titusville	Adj NE	S.L.	Unl S1	73 oct; 80 oct req. Data unver.
West Palm Beach, Midet	1 N	S.L.	158 S4	80,87 oct.Ramps;all facs.ARPT OP ENTRY.
IOWA				
Davenport,Elliot Fly.Serv	Adj S	550	50 S1	80 oct.
LOUISIANA				
Cross Lake	5 NW		100 S4	Fuel; dock.Data unver.
Westwego	1 E	S.L.	53	PRIVATE.May Brothers.

CITY AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
MAINE				
Bath, New Meadows	2.3 WNW; RR S	12	60	Beach. N,S approaches Blocked.
Boothbay,Frank L.Sample Jr	Adj	S.L.	Unl S1	Ramp; float.
Brunswick,Riverside Arpk.	1 WNW;RR,hwy S	60	23 S1	
Dexter,Heart of Maine	0.5 N	433	40	Buoys;boat. Trees N,S,W.
Eagle Lake	5.8 N	574	70 S1	80 oct. Obsts.
East Holden,Holbrook Pond	1.1 NNE	200	50 S1	73 oct. Ramp;dock.
Eastport	1 W	S.L.	Unl	Ramp.
Fryeburg	2 E	358	120	Trees encircle lake.
Greenville,Moose Hd.Lake	0.6 WNW	1028	50 S4	91 oct. Ramp.
" Jct.,Squaw Mt. Inn	1.5 N	1028	52	Buoy;boat;beach;float.
Madison, Tomlinson	6.8 NE	330	130	Boat;beach;ramp.
Naples	0.5 NNW	267	160 S1	80 oct. Boat.
Portage,Portage Lake	0.4 WSW	609	160 S4	80,91 oct. Beach; boat.
Shinn Pond	0.7 NE	900	60 S1	80 oct.Buoys;beach;wharf, Obst.
Winthrop,Inland Fish & Game	2.7 NNE	212	127 S1	80 oct.Buoys;beach;float.
MARYLAND				
(N) Annapolis NAP (N)	1 E	S.L.	Unl S2	Ramp;haul-out;buoys.
(N) Baltimore,Middle River NAP	10 E	S.L.	Unl S6	91,100 oct.Ramp;buoys. (N)
Baltimore	7 S; bay E		Unl L1 S4	Ramps.
Glen Burnie-Whipp	1.5 E	50	100 S6	80 oct. Ramp.
(N) Patuxent River NAS (N)	2.9 NE of Jarboesville	S.L.	Unl S4	90,100 oct. Ramps;buoys.
MASSACHUSETTS				
Agawam	1 SSE	30	100 S6	80 oct. Ramp; all facs.
Beverly,Jubilee Yacht Club	Adj S	S.L.	105 S1	Beach;dock; Avail. May - Oct.
Chatham	Adj W	S.L.	33 S2	Ramp;dolly;buoy.
Holyoke, Smiths Ferry	4.5 N	100	95	Obsts. NE, SW.
Lawrence,Merrimack Valley	2 E	7	83 S4	No sto. Ramp;float.Data unverified.
(N) Salem CGAS (N)	2.5 E	S.L.	150 S4	91,100 oct. Ramps.
(N) Squantum NAS (N)	0.8 W	10	Unl S4	73-100 oct. Ramps;buoys.
Swansea,Swansea Boat Yard	2.5 SSW	S.L.	211	Float;buoys;beach.
MICHIGAN				
Algonac	2.8 W	574	50 S1	73 oct.
Detroit,Motor Boat	6 ENE	575	Unl S1	Dock. Peach Island S.
" Seapl. Patrol Base Inc	4 ENE	575	Unl S1	73 oct. Dock. Belle Island S.
Kalamazoo, Austin Lake	8 SSE; RR E	855	100 S4	80 oct. Boat;beach;tractor.
North Muskegon,Interstate	0.3 S	581	100	Ramp;boat;dolly.
Trenton, Hance	5 NNE	574	Unl S1	73,80 oct. Beach;ramps.
Whitmore Lake	1 NNE	894	84 S4	Beach;boat;ramp.
MINNESOTA				
Bemidji, Moberg	1 NNE	1350	S2	80 oct.
Ely	1.5 W	1337	110 S2	80 oct. Ramps;dock.
Little Falls,Scenic Airways	0.5 N	1110	35 S1	80 oct. Ramps;beach; Poles S.
Marcel, Ranier	0.5 E	1300	30	Trees around lake.
MISSISSIPPI				
(N) Biloxi CGAS (N)	2 ESE	S.L.	54 S4	91 oct. Ramp.
NEW HAMPSHIRE				
Alton Bay,Interstate Avys	Adj N	504	Unl S1	80 oct. Ramp;buoys;wharf.Data unver
Hooksett	2 S	2	80 S6	80 oct. Beach;ramp;tractor.
Lakeport, Paugus Bay	1 NE	504	100 S4	73 oct. Beach;boat;ramp.
The Weirs, Weirs	0.3 SE	504	210 S4	80 oct. Ramps.
Wolfeboro	0.5 SE	504	180 S1	80 oct. Boat;wharf.
" Lakes Region	2.7 W	504	60 S6	80 oct.Ramp; all facs.
" Lake Winnepesaukee	3 WSW		60 S1	80 oct. Data unverified.

R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) → NEW OR REVISED DATA. N.B. Seaplane bases and anchorages are not charted.

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
NEW JERSEY				
Cape May COAS	2 NW	S.L.	60	Ramp; haul-out; buoys. INACTIVE
Little Ferry	0.5 E;brdg N	5	40 S6	80 oct.Boat;ramp;tractor.
Perth Amboy	0.5 S of brdg	5	Unl S1	80 oct.Ramp;all facs.Data unver.
Ridgefield Park,Lambrose Air College	0.5 S	5	40 S4	80 oct. Boat; ramp; winch.
Mellor-Howard	1 S	5	35 S4	80 oct. Ramp; all facs.
Secaucus, Dawn Patrol	0.5 N;brdg SW	5	50 S2	73 oct. Winch.
NEW YORK				
Alplaus, Wells	0.5 SW	200	50 S4	80 oct.No sto.Ramp.Hi-line E.
Babylon Skyport	1.5 SW	S.L.	Unl S4	80 oct. Ramps;boat.
Buffalo	7.3 NW	570	103 S6	80 oct. Ramp; all facs.
Cooperstown, Otsego	Adj NNE	1194	Unl S1	80 oct.Float;ramp;buoys;winch.
Dobbs Ferry	0.5 SW	5	100	Marine Ry;ramp;winch;float.
Eagle Bay, Adirondack	0.3 S	1707	70 S1	80 oct. Beach.
Lake George, Hall's	0.5 E	330	52 S1	73 oct. Ramp; all facs.
Montauk Yacht Club	2.5 NE	S.L.	Unl S1	87 oct.Buoys;floats. Avail.May-Oct
New York,Downtown Skyport	Foot Wall St.	S.L.	S1	Floats.
" Evers	11 NE	5	70	Ramp;buoy;boat;winch. Bridge SSW.
(N) " NAS (N)	11.8 SSE	S.L.	100 S4	73,91,100 oct.Ramps;tractor.
" La Guardia	5 E	S.L.	211 L1 S6	73-100 oct. Ramps;winch;buoys.
North Long Beach	0.4 N;brdg SW	S.L.	75 S4	80 oct. Ramp;float.
Ossining, Pickair	0.5 W	3	158 S4	80 oct. Boat;ramp.
Oyster Bay,Cold Sprg Harb.	2 E	10	50	Buoys;beach;boat;dolly.
Piseco, Knox Bay	1.5 S	1661	163	PRIVATE. Boat;beach;tractor.
Port Washington,Grumman	1.5 NW	S.L.	158 S4	Ramps; all facs.
Rochester,Point Pleasant	6 NE	246	Unl S1	80 oct. Ramp;float;dock.
Round Lake	0.5 E;RR S,W	188	48 S6	80 oct. Beach;boat;tractor.
Sag Harbor	0.5 N	5	103	PRIVATE. Ramp;tractor.
White Stone, Queens	1 N	S.L.	200 S4	80 oct Ramp;dock.
Yonkers	S end	S.L.	Unl S4	Ramp. Closed Dec 15 - Mar 15.
NORTH CAROLINA				
Elizabeth City CGAS	3.5 SE	S.L.	106 L1 S4	91,100 oct. Ramps; all facs.
" Harvey Point	13 S	S.L.	Unl	Ramps.
OHIO				
Cleveland,Breckling Air Service	1 E	573	30 S4	80 oct.No sto.Ramp;boat.Data unver buoy
OREGON				
Milwaukie, Portland	3 W	10	32 S4	80 oct. Ramps;boat;beach;winch.
Ocean Lake, Devils Lake	0.7 E	S.L.	59 S4	80 oct.No sto. Beach;winch.
Portland, Safley's	5 NNW	26	60 S1	Ltd 80 oct. Ramp;beach;winch.
PENNSYLVANIA				
Aspinwall, Highland	0,7 S	721	52 S3	80 oct. Ramp;boat.
Beaver	0.5 S	670	50 S1	80 oct. Boat;beach;ramp;tractor.
Corsopolis	0.5 N	675	50 S1	80 oct. Boat;ramp.
Edinboro	1.2 NNW	1200	Unl S1	Ltd fuel.Beach;boat;haul-out.
Harrisburg, Air-Harbor	1 SSW;brdg SE	300	30 S4	80 oct. Boat.No sto.
Kittanning, Sedwicks	0.2 W	769	50	Float;beach;boat.
McKeesport	1.3 NW	718	40 S1	80 oct. Float;ramp.
Milton	1.5 SW	440	50 S	Svcg from Milton Arpt.
Oakmont	Adj NW	725	52 S1	80 oct. Float.
Philadelphia	10 SW	10	Unl S6	80,91 oct. Ramps; all facs.
" Philadelphia Skyport	Center of city	10	Unl S6	Boat;all facs. Data unverified.
(N) " Mustin NAS (N)	4 S	S.L.	120 S6	87-100 oct. Ramp.
Pittsburgh, Buck's	at riv inter.	715	70 S6	87 oct.Boat;beach;ramp;winch.
" Dravosburg	5 SE;jct rivs	718	50 S2	80-100 oct. Ramp;float;boat.
" Highland	5 NNE	721	66 S6	80 oct. Ramp;dock;crash boat.
Rochester	o.5 S	670	78 S1	80 oct. Float;boat.

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
RHODE ISLAND				
Newport	3 NW	S.L.	Unl	Ramps;buoys;boat.
(N) Quonset Point NAS (N)	16.5 S Provid	S.L.	Unl L5 S6	91,100 oct. Ramps; all facs.
TEXAS				
(N) Corpus Christi NAS (N)	9.5 SE	S.L.	Unl R1 L3 S5	91,100 oct. Buoys;ramps.
La porte, Fay Bros.	2 NE	S.L.	Unl S1	No sto. Floats;marine ry.Data unver.
VIRGINIA				
(N) Dahlgren NAF (N)	Adj SE	10	S2	Ramp.
(A) Langley (A)	3 N Hampton	5	105 S2	Dock;Closed during ice period.
(N) Norfolk NAS (N)	7 N	S.L.	54 R1 L1 S6	87,91,100 oct. Ramps.
(N) Quantico MCAS (N)	1 S	13	180 S4	Buoys;boat;ramp.
WASHINGTON				
Bellingham	5 ESE	307	158 S2	73 oct. Boat;ramp;winch.
" Lakeside Fly. Serv.	3 E	307	106 S1	73 oct. Buoy;boat.
Bremerton	0.75 E	S.L.	211 S6	80 oct,No sto.Ramps;winch;hoist.
(N) " NAS (N)	0.5 S	S.L.	Unl S4	Ramp;buoys;haul-out.
Chelan, Air Harbor	0.8 W	1079	Unl S1	73 oct. Boat;beach;ramp.
Coulee Dam	3 ESE	1275	Unl S2	73 oct. Boat;beach;marine ry.
Longview, Sky Harbor	1.3 ENE	5	37 S1	73 oct. Float;beach.
(N) Oak Harbor NAS (N)	0.5 SE	S.L.	Unl R1 S	Fuel,sto,prior req.Ramps;buoys.
Oroville, Dorothy Scott	1,7 N	913	52	Boat;beach.
(N) Port Angeles CGAS (N)	2 NNE	13	Unl S4	Ramp; all facs.
Port Townsend	Adj S	S.L.	150 S4	Ltd fuel. Buoys.
Prosser, L & D	1 W	632	76 S1	80 oct. Ramp. 100' pole line WSW.
Seattle,Kurtzer Fly.Svcg.	In city	S.L.	79 S4	80 oct. Ramps;hoist.
(N) " NAS (N)	6 NNE	36	300 L S6	87-100 oct. Ramps; all facs.
" Seattle Service	In city	20	53 S2	80 oct. Ramp;boat.
Tacoma, Float Haven	0.7 NE	S.L.	26 S1	80 oct.Ramp;floats;boat;winch.Brdg SSE.
Wenatchee	0.5 E	600	53 S1	73 oct.Boat;beach;ramp.
WEST VIRGINIA				
Charleston,Kanawha Flying School	Center of city	586	50 S6	80 oct. Boat;ramp;winch.
Wheeling	Center of city	630	50 S1	87 oct.Boat. Bridges S.
South Charleston	W of city	560	Unl S6	80 oct.Boat;ramp;winch.Info unver.
WISCONSIN				
Madison, Jackson	3 WNW	849	Unl S2	80 oct. Dock;float
Milwaukee	3 ESE;hwy w	585	185 S6	80,91 oct.
Bangor, Down East (Maine)	3 NE		106 S4	80 oct.No sto.Ramp;float;beach.Data unverified,
Fall River (Massachusetts)	2 E	131	119	Data unverified
Gloucester (Massachusetts)	0.3 W	S.L.	50 S4	80 oct.No sto.Morrings;float.Data unverif.
Holyoke,South Hadley(Mass.)	3 N	95	66 S3	80 oct. Data unverified.
Lowell (Massachusetts)	1 W	95	92 S3	Data unverified.
Methuen,Merrimac Val'y(Mass)	2 W Lawrence	45	50	Data unverified.
New Bedford (Massachusetts)	In harbor	S.L.	Unl	Data unverified.
Athens (New York)	Adj E		Unl S1	73 oct. Float. Data unverified.

SPECIAL NOTICE

In compliance with numerous requests from seaplane pilots for immediate coverage, the above admittedly incomplete directory has been compiled. Seaplane base and anchorage operators, whose facilities have not been covered, or have been incompletely covered, are requested to submit complete data to: the Office of Aviation Information, att: A 250, Civil Aeronautics Administration, Department of Commerce, Washington 25,D.C.

R-radio facilities. L-lighting facilities. S-servicing. (See page x111) → NEW OR REVISED DATA. N.B. Seaplane bases and anchorages are not charted.

NOTICES TO AIRMEN

INTRODUCTION

✓ PROCEDURAL STATEMENT: The AIRMAN'S GUIDE no longer has a separate section for the DIRECTORY OF AIRPORTS or the AIR NAVIGATION RADIO AIDS. These two sections are now inserted as data pages between the flight planning charts. To retain the 2-page chart flow, however, the data pages are found on the reverse sides of the charts rather than facing them. On the data pages are tabulated all the data covering the facilities charted on the reverse sides and formerly found in the DIRECTORY OF AIRPORTS and AIR NAVIGATION RADIO AIDS sections. To facilitate reference to a particular facility, an Index of Facility Locations with the parenthetical number of the page on which the locale is charted has been added to the revised AIRMAN'S GUIDE, e.g., Chicago (139). On the back of page 139 will be found the Air Navigation Radio Aids and the Directory of Airports data covering Chicago.

Because of the serious paper shortage every means of reducing the Airman's Guide bulk has been investigated. Codification and considerable abbreviation are already being utilized. No material may be deleted, however, in this paper conservation program because surveys have revealed that subscribers consider all parts of the Guide essential. Consequently, about the ultimate step in this bulk-reduction direction has just been taken. The data pages backing the charts now serve, where possible, as notam pages. Resultantly, most of the new data formerly notamized in the Notices to Airmen section with prefixed large stars or double asterisks are no longer carried in that section. Only commissionings, abandonments, or changes so potentially hazardous that they are indicated with Ⓡ (for red flag) symbols on the charts, are now cited in the Notices to Airmen section.

Notamizing on the data pages is effected by the use of prefixed arrows as in the former Air Navigation Radio Aids publication. All changes from the previous issue, whether cited in the Notices to Airmen section or not, are indicated by the prefixed arrows. Following are examples of changes notamized only on the data pages: field obstruction, servicing, elevation, location, and runway length changes. Because of the use of the prefixed arrows as new data indicators, a further innovation had to be adopted. This is a heavy black horizontal line device.

Space below the heavy black horizontal lines on the data pages has been reserved as a supplement for new radio aids and airports whose data were received after the data pages were originally typed. Revisions to existing airports and radio aids are super-imposed on the old data, but new airports and radio aids are listed, necessarily out of alphabetical alignment, below the heavy black horizontal lines until the page is re-typed.

In summation: (a) on the data pages backing the charts, new data or revisions are indicated by arrows; (b) in the Notices to Airmen section, citations covering new or revised radio data are prefixed by one large star "★". Citations covering new or revised airport, or miscellaneous data are prefixed by two asterisks "**"

All temporary conditions (field soft, runway under construction, range course out of alignment, etc) are cited in full until they are no longer in effect. When a citation carries a permanent item and a temporary item, the permanent item is underlined. Parenthetical date at end of item indicates time item was reported.

To conform to chart practice, all facility data are listed in the Notices to Airmen section and on data pages alphabetically by states and by facility name. Thus, an airport will be found listed alphabetically under its own name rather than under its locale's name. If the airport or radio facility name is other than that of the city in which it is located, the location is shown in parenthesis after the facility name.

CIVIL FACILITY DATA: Please advise immediately the Office of Aviation Information, Attention A-250, CAA, Department of Commerce, Washington 25, D. C., whenever temporary conditions covering civilian airports or navigational aids begin or terminate, data revisions are effected, or flight hazards are erected or removed.

SPECIAL NOTICES

ARMY DATA: Advice covering Air Forces Fields or Air Forces Operations on civilian fields, or AAF Radio Facilities, and Danger or Caution Area activation, as well as requests for approval for the closing of any army airfields to transient military aircraft for a period in excess of ten days should be directed to: COMMANDING GENERAL, AIR TRANSPORT COMMAND, WASHINGTON 25, D.C. ATTENTION: HEADQUARTERS FLIGHT SERVICES, FLIGHT OPERATIONS. Information to be published will be coordinated and submitted to the C.A.A.

NAVY FACILITY DATA: In accordance with Hydrographic Office Memorandum for Aviations No. 9, July 29, 1946, Hydrographic Office information concerning naval and marine corps air stations and facilities, including changes in field facilities, operation rules, air/ground communications facilities, instrument approach procedures and navigational aids, should be directed to: The Division of Air Navigation, Hydrographic Office, Washington 25, D. C., for transmittal to the Civil Aeronautics Administration. In accordance with Aviation Circular Letter #96-46 of June 13, 1946, approval for the closing of any naval or marine corps air station or facility to transient military aircraft for a period in excess of 10 days must be obtained from the Chief of Naval Operations. Also, approval is to be obtained from the Chief of Naval Operations before relocation or modification of any aid to air navigation, such as reorientation of radio ranges.

POLICY ON ARMY USE OF TEMPORARILY INACTIVE ARMY AIR FIELDS: 1. Municipal airfields which have been used jointly by the Army Air Forces and civil interests and at which Army facilities are temporarily inactive but the civil facilities are still active, may continue to be used by military aircraft. No servicing other than that provided by commercial concerns will be available. Such airfields will be identified herein by the following notice: "Army temp inactive - civil facs". 2. Temporarily inactive Army airfields used exclusively by the Army Air Forces (either owned or leased) or municipal airfields used jointly by the Army Air Forces with civil interests at which both Army and civil facilities are inactive will be available to military aircraft on official business only under written orders of an air force, command or higher authority. Individual orders for each flight rather than blanket authority is desired. Such airfields will be identified herein by the following notice: "Temp inactive - no facs. (see Special Notice re use)". Operation of Air Transport Command hospital evacuation aircraft will not be limited in any respect by above policy. Above policy statement is not to be construed as countermanding any AAF regulations or letters governing command use of municipal airports or Army airfields.

"OFFICIAL BUSINESS" AS APPLIED TO AAF: The term "official business", within the meaning of AAF Regulation 85-2, is interpreted as the necessity for personnel aboard an aircraft to contact personnel, units or organizations at or near the airfield selected for landing for the purpose of conducting transactions in the service of, and in the interest of, the United States Government. This does not include the use of an airfield by transient aircraft for the purpose of obtaining aircraft clearance, service, or other items attendant with itinerant operations. Cross country flights for the purpose of maintining flying proficiency are not considered to be official business within the meaning of this regulation.

AIRPORTS AVAILABLE FOR USE BY MILITARY AIRCRAFT: The attention of Army clearance personnel and of Army pilots is invited to provisions of Section III of Army Air Forces Regulation 85-2, which states in part: "The use by Army aircraft of private airports which have not been leased, purchased, or otherwise acquired by the

✓ Indicates new or revised Special Notice.

Federal Government is unauthorized except in case of emergency or for official visits authorized by an Air Force or Command". This Regulation furhter states "AAF transient itinerant acft may utilize: (a) Government or DLA (development landing area) type airports, subject only to such restrictions as may be listed from time to time in Weekly Notice to Airmen..... (b) Private arpts when legal permits for their limited use are procured by, and filed with the real estate agency of the War Department.....". Reference to the AAF Installations Directory,and to the Data Pages as well as the Notices to Airmen section of the Airman's Guide should be made in case of doubt as to the proper use of fields. On the data pages, all AAF installations are designated by the prefix (A), Navy by (N) and DLA by (P).

RESTRICTION ON C-45, AT-7, AT-11, F-2, and CQ-3 ARMY AIRCRAFT: Upon compliance with following items and notation in Form 1B of each aircraft certifying completion, above types of aircraft may be cleared for IFR flight: (a) Replace all gyro units which on flight check spill either gyro at less than 45°; (b) Compliance with T.O. 01-90C-9; (c) Compliance with applicable modifications on auto-pilots prescribed by T.O.'s 01-90-50, 01-90-54, 01-90-52, 01-90-56; (d) Modify receiver dials so that index is turned 90° toward pilot as described in item 7, page 6, T.O. 00-65-14; (e) Periodic inspections prescribed in T.O. 05-45BA-2 for Jack and Heintz instruments and T.O.45AB-2 for Sperry instruments.

RESTRICTION ON FLIGHT OF AAF AIRCRAFT IN NEW YORK CITY AREA: Effective immediately no AAF acft except those on scheduled transport operations will be cleared to New York City Area unless point of first intended landing is Mitchel Field, Hempstead, L.I., N.Y. When instrument conditions prevail in New York City Area, no Army acft except those on scheduled transport operations will land at or take off from other than Mitchel Fld. When contact conditions prevail in New York City Area, acft which have been cleared for Mitchel Fld but which desire to land at other authorized fields in New York City Area will, when approaching New York City Area, obtain clearance from New York Flight Service thru normal communication means. For purposes of these instructions, New York City Area is defined as a circle 50 miles in diameter centered on southern tip of Manhattan Island. Contact weather New York Area will be considered to be: 2000 feet ceiling,3 miles visibility,both day and night. When cloud conditions exist below 2000 feet,flight conditions will be considered IFR.

MILITARY AND NAVAL LANDINGS IN NEWFOUNDLAND: All military and naval aircraft landing in Newfoundland should use Harmon Field at Stephenville or Naval Operation Base at Argentia. Gander has very limited military facilities and is reserved for commercial and weather diverted military aircraft.

RESTRICTIONS ON AAF HELICOPTERS: YR-5A, R-5A, YR-5D, R-5D (excpet as indicated below*) and YR-5E helicopters are grounded and will not be flown.

*R-5D helicopters No. 43-46643 and subsequent have been modified by the contractor and may be released for flight.

ARMY FOREIGN CLEARING STATIONS: Under the authority of AAF Regulation 61-4, Army aircraft with destinations listed below or returning therefrom to the United States will clear through the stations indicated: AFRICA - Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. ALASKA - McChord Field, Wash.; Great Falls AAF, Mont.; or Boeing Field, Wash. BERMUDA - Mitchel Field, N.Y.; Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. CANADA - Great Falls AAF, Mont.; McChord Field, Wash.; Washington National Airport, D.C.; Boeing Field, Wash.; Selfridge Field, Mich.; or Westover Field, Mass. CANAL ZONE, CENTRAL AMERICA, MEXICO, AND SOUTH AMERICA - March Field, Calif.; Kelly Field, Tex.; or Morrison Field, Fla. CARIBBEAN - Morrison Field, Fla. ENGLAND, GREENLAND, ICELAND, NOVA SCOTIA, NEWFOUNDLAND, AND NORTH IRELAND - Washington National Airport, D.C., and Westover Field, Mass. (Note: Selfridge Field also will clear for Nova Scotia and Newfoundland). HAWAII - Fairfield-Suisun AAF, Calif.

✓ ARMY AIRWAYS FACILITIES CHANGES AND ADDITIONS: In accordance with AAF Letter 100-74 and AAF Manual 100-63-1, the AAF Military Flight Service Communications System will be implemented in the near future. This new system, which replaces the leased CAA communications system now used for CFR flight plans and associated communications, will handle AAF operational point-to-point and air-ground communications pertaining to departures, arrivals, emergency rescue, hurricane evacuation, flight advisories, clearances, transportation and cargo services, training, bomb scoring, and RON messages. The CAA will continue to handle IFR flight in accordance with statutory responsibility.

This system will be operated by nine AAF military Flight Service Communications Centers located at the following points, which will have an area of responsibility corresponding to that of two or more CAA airway traffic control centers: McChord Field, Washington; Hamilton Field, Calif.; March Field, Calif.; Lowry Field, Colo.; Ft. Worth AAF, Texas; Maxwell Field, Ala.; MacDill Field, Fla.; Olmsted Field, Pa.; and Wright Field, Ohio. Communications between Military Flight Service Communications Centers will be by teletype normally; and communication between such centers and AAF air bases will be by interphone circuits.

System will be placed in effect on a trial basis on October 1st and it is contemplated that all facilities will be available and system will go into regular operation November 1st.

When installation is completed, communication with Army aircraft will be accomplished by means of HF and VHF installations as listed below:

HF Installations

EAST ZONE: Wright Field, Ohio, Maxwell Field, Ala.; Grenier Field, N.H.; Olmsted Field, Pa.; Pope Field, N.C.; MacDill Field, Fla.;Brookley Field, Ala.

CENTRAL ZONE: Rapid City AAB, S.D.; Lowry Field, Colo; Biggs Field, Tex.; Ft. Worth AAF, Tex.; Sherman Field, Kans.; Wold Chamberlain Field, Minn.; Kelly Field, Tex.; Scott Field, Ill.

WEST ZONE: McChord Field, Wash.; Medford AAB, Ore.; Hamilton Field, Calif.; March Field, Calif.; Luke Field, Ariz.; Hill Field, Utah; Great Falls AAB, Mont.

HF air/ground radio stations will operate on a common voice frequency of 4765 kc, common CW frequencies of 4595 and 8200 kc, with East Zone HF voice on 2862 and 4845 kc, Central Zone HF voice on 2936,4630 kc,and West Zone HF voice on 2862 and 4697.5 kc. The zone voice channels will be used mainly for local training missions. Detailed outline is given in AAF Manual 100-63-1.

VHF Installations

Andrews Field, Md.; Barksdale Fld, La.; Bergstrom Fld, Tex.; Biggs Fld, Tex.; Brookley Fld, Ala.; Casper AAF, Wyo.; Chanute Field, Ill.; Clovis AAF, N.M.; Columbus AAF, Miss.; Davis-Monthan Fld, Ariz.; Dow Fld, Me.; Eglin Fld, Fla.;

Ellington Fld, Tex.; Enid AAF, Okla.; Ft. Dix AAB, N.J.; Ft. Worth AAF, Tex.; Goodfellow Fld, Tex.; Great Falls AAF, Mont.; Greater Pittsburgh Arpt, Pa.; Greenville AAB, S.C.; Grenier Fld, N.H.; Hamilton Fld, Calif.; Hill Fld, Utah; Kearney AAF, Nebr.; Kelly Fld, Tex.; Kirtland Fld, N.M.; Langley Fld, Va.; Las Vegas AAF, Nev.; Lawson Fld, Ga.; Lockbourne AAB, Ohio; Lowry Fld., Colo.; Luke Fld, Ariz.; MacDill Fld, Fla.; March Fld, Calif.; Maxwell Fld, Ala.; McChord Fld, Wash.; Medford AAF, Ore.; Memphis Mun. Arpt., Tenn.; Merced, AAF, Calif.; Mitchel Fld, N.Y.; Moody Fld, Ga.; Morrison Fld, Fla.; Olmsted Fld.; Pa.; Orlando Air Base, Fla.; Pocatello AAF, Idaho; Pope Field, N.C.; Portland AAB, Ore.; Rapid City AAB, S.D.; Robbins Field, Ga.; Rome AAF, N.Y.; Roswell AAF, N.M.; Scott Field, Ill.; Sedalia AAF, Mo; Selfridge Fld, Mich.; Shaw Fld, S.C.; Smyrna AAF, Tenn.; Spokane AAF, Wash.; Tinker Field, Okla.; Tonopah AAF, Nev.; Sherman Fld, Kans., Turner Fld, Ga.; Walla Walla AAF, Wash.; Westover Fld, Mass.; Wold-Chamberlain Fld, Minn.; Wright Field, Ohio.

Each VHF air/ground station will constantly guard two frequencies 116.1 mc and 137.88 mc and be capable of transmitting on either frequency. It is planned that 116.1 mc which is a common frequency will be used as secondary until such time as all aircraft are equipped with the eight channel VHF set. All aircraft equipped with 137.88 mc will use that frequency. Insofar as operating personnel allotments allow and the volume of air traffic dictates, facilities for VHF D/F Homing will be provided.

FLIGHT SERVICES CENTER BOUNDARIES:

McChord Field Flight Services Area: Encompasses present Seattle and Great Falls CAA Areas.

Hamilton Field Flight Services Area: Encompasses present Oakland and Salt Lake City CAA Areas.

March Field Flight Services Area: Encompasses present Los Angeles, Albuquerque and El Paso CAA Areas.

Lowry Field Flight Services Area: Encompasses present Denver, Minneapolis, Kansas City CAA Areas.

Ft. Worth Flight Services Area: Encompasses present Ft. Worth and San Antonio CAA Areas.

Maxwell Field Flight Services Area: Encompasses present Memphis, New Orleans, Atlanta CAA Areas.

MacDill Field Flight Service Area: Encompasses present Jacksonville and Miami CAA Areas.

Olmsted Field Flight Service Area: Encompasses present Washington, Pittsburgh, N. Y., and Boston CAA Areas.

Wright Field Flight Service Area: Encompasses present Detroit, Cleveland, Cincinnati, St. Louis, and Chicago CAA Areas.

STANDARD NAVY GROUND CONTROL APPROACH FREQUENCY ASSIGNMENTS: Allocations of frequencies, both HF and VHF, for Navy GCA use have been coordinated with the AAF. Universal frequencies allocated primarily for Navy GCA operational use are as follows: HF Communications - 3475 kcs., 4890 kcs., 6640 kcs; VHF communications 134.64 mcs., 142.02 mcs., 143.64 mcs. As a safety precaution, Navy GCA Units will also be prepared to control aircraft on 140.58 mcs., the Navy emergency frequency. To provide a means whereby Navy aircraft may receive assistance from Army GCA Units and vice-versa, the following agreement will govern: (a) Army GCA Units will at all times be prepared to control Navy Aircraft on 140.58 mcs. (b) Navy GCA Units will at all times be prepared to control AAF aircraft on 131.40 mcs. It is the responsibility of the pilot desiring GCA assistance to establish communication with the appropriate control tower for preliminary approach instructions. The pilot will then be instructed as to the proper frequency for contacting the GCA Unit. Navy GCA Operational Units are located as follows: Whidbey Island NAS, Wash.; Charlestown NAAS, R.I.; Oakland NAS, Calif.; Camp Kearney NAAS, Calif.; Seattle NAS, Wash.; Olathe NAS, Kans.; Oceana NAAS, Va.; Patuxent River NAS, Md.

LORAN DATA: Loran is a long range electronic navigational aid utilizing pulse techniques. It provides accurate fixes for the user within 1 per cent of his distance from the stations. Loran service is provided continuously twenty-four hours a day. Loran operates on fixed frequencies of 1750, 1850, and 1950 kilocycles. To use Loran it is required that a Loran receiver-indicator be employed and that suitable charts and tables be available to the navigator. The following is a list of Coast Guard and Canadian Loran rates presently in operation: Atlantic: 1L0, 1L1, 1L2, 1L3, 1L4, 1L7, 1H1, 1H2; West Coast U.S.: 2H4, 2H5, 2H2; Aleutian Area: 1L0, 1L1, 1L2; Central and Western Pacific: 2L0, 2L1, 2L2, 2L3, 4H2, 4H3, 4H4, 4H5, 1L6, 1L7. Information regarding Loran coverage, rates, frequency, etc., throughout the world is contained in the Catalog of Loran Charts and Service Areas, Hydrographic Office Publication No. 1-L. This publication may be obtained from Hydrographic Office agents located in various cities in the United States or from the Hydrographic Office, Washington, D. C., at a cost of $0.30. Complete Loran tables are contained in Hydrographic Office Publication Series No. 221, which can be obtained from the same sources at a cost of $3.00 per volume. Loran charts may be similarly obtained. Hydrographic Office Circular No. 3 and the Hydrographic Bulletin (issued weekly) give a list of these agents mentioned above and may be obtained without charge from the Hydrographic Office or any Branch Hydrographic Office. Changes in Loran service are broadcast in Hydrolants and Hydropacs, and as local broadcasts, the stations, frequencies, and schedules being listed in the first Hydrographic Bulletin issued each month. Inquiries of an operational nature regarding Loran may be addressed to the Commandant (OAN), U.S. Coast Guard, 1300 E Street, N.W., Washington, D. C.

CIVILIAN USAGE OF MILITARY FIELDS: Army and Navy fields are open to civilian fliers only in emergency or with prior permission of the commanding officers thereof.

FOREIGN ENTRY PROCEDURES: The following procedures are necessary in order to gain entry, with intention to land, in Canada and Mexico:

CANADA: 1. All departures from the United States must be made from Airports of Entry. (See next item). 2. If landing is to be made at a designated Canadian Airport of Entry, notice should be telephoned or telegraphed to the collector of customs at the predetermined point of entry when clearing U.S. Customs. 3. If entry is planned at a field other than a customs airport, arrangements should be made with the Secretary, Customs Division, Department of National Revenue, Ottawa, at least 10 days in advance. 4. Pilots and aircraft must be properly certificated and general observance of Canadian air regulations is required. 5. The following is a list of all Canadian Customs Airports of Entry: Whitehorse, Y.T.; Vancouver, B.C.; Calgary, Alta.; Lethbridge, Alta.; Moose Jaw, Sask.; Regina, Sask.; Winnipeg, Man.; Ottawa, Ont.; (Island or Malton); Hamilton, Ont.; Windsor, Ont.; Montreal, P.Q. (Dorval); Fredericton, N.B.; St. John, N.B.

MEXICO: Applications for permits may be filed with the nearest Mexican consul who charges a fee of $4.00, or directly with the Department of Civil Aeronautics, Mexico City, Mexico, without charge. The permit will be sent directly to the Airport of Entry named in the application, unless the applicant specifically requests that it be sent to his home address. If entry is to be made from Brownsville, Tex., permission may be received from Representative of Mexican Ministry of Communication and Public Works, Department of Civil Aeronautics, Rio Grande Valley International Airport, Brownsville, Texas. All departures from the U.S. must be made from Airports of Entry. (See next item).

AIRPORTS OF ENTRY: Customs clearance into or out of the United States must be made at the following Airports of Entry:
International Arpt, Douglas, Ariz.; Nogales International Arpt, Ariz.; Lindbergh Fld, San Diego, Calif.; Meacham Fld, Key West, Fla.; Miami International Arpt, Fla.; Midet Seaplane Base, West Palm Beach, Fla.; Caribou Arpt, Me.; Presque Isle Arpt, Me.; Detroit City Arpt, Mich.; Romulus AAF, Mich.; Sault Ste. Marie, Arpt, Mich.; Williamson-Johnson Fld, Duluth, Minn.; Cut Bank Arpt, Mont.; Great Falls Arpt, Mont.; Havre City-County Arpt, Mont.; Albany Arpt, N.Y.; Buffalo Arpt, N.Y.; Malone-Dufort Arpt, N Y.; Massena Arpt, N.Y.; Niagara Falls Arpt, N.Y.; Ogdensburg Arpt, N.Y.; Rochester Arpt, N.Y.; Rouses Point Seaplane Base, N.Y.; Watertown Arpt, N.Y.; Grand Forks Arpt, N.D.; Pembina Arpt, N.D.; Cleveland Arpt, Ohio; Hinde Arpt, Sandusky, Ohio; Put-In-Bay, Ohio; Eagle Pass Arpt, Tex.; El Paso Arpt, Tex.; International Arpt, Brownsville, Texas; Austin Arpt, Swanton, Vt.; Burlington Arpt, Vt.; Bellingham Arpt, Wash.; City-County Arpt, Port Townsend, Wash.; Felts Fld, Spokane, Wash.; King County Arpt-Boeing Field, Seattle, Wash.

CUSTOMS REPORTS: In making flights TO or FROM a foreign country, civilian fliers are required to report to a customs officer. If they do not report, they are subject to a civil penalty of $500.00 for each violation, and any aircraft used in connection with any such violation is subject to seizure and forfeiture, as provided for in the customs laws. On flights from foreign territory, the first landing in the United States is required to be made at an airport of entry, unless permission to land elsewhere than at an airport of entry is granted by the Commissioner of Customs, Washington 25, D. C. Consult the nearest customs officer before making foreign flights.

U.S. CIVIL AIRCRAFT CLEARANCE FOR FOREIGN COUNTRIES: Although the CAA does not require special permission for the flight of U.S. aircraft abroad, or for the delivery of aircraft exported to foreign countries, all aircraft must be registered and certificated as to airworthiness, and pilots must hold appropriate U.S. pilot certificates. The single exception to the above is: Special permission must be obtained from the Director, Aircraft and Components Service, CAA, Washington, D.C., for any flight into or through the Panama Canal Zone. In general, permission must be secured from foreign countries for the conduct of scheduled or non-scheduled operations from the U.S. Specific information may be secured from the Aviation Division, State Department. All air carriers must secure operating certificates from the CAA and their operations must be in conformance with these certificates. Although there are no Federal taxes on the exportation of aircraft from the U.S., it is mandatory that a license for such export be obtained from the State Department.

CANADIAN REGULATIONS FOR CFR FLIGHTS: (a) It is compulsory for pilots desiring to conduct a CFR flight to file a flight plan unless the flight will be made within a radius of 25 miles of the point of departure. (b) Arrival messages must be filed by pilot on all such CFR flights.

CANADIAN INSTRUMENT FLIGHT RULE FLIGHT: Pilots are cautioned to conform to the requirements of CAR 60.2 where flight is proposed to be conducted under Instrument Flight Rules from the United States into air traffic control areas designated in Canada. Failure to adhere to these regulations may result in detention of pilots concerned by Canadian Authorities.

PANAMA CANAL ZONE, FLIGHT INTO: Prior to take-off from Miami, New Orleans, or Brownsville, or other port of embarkation on any aircraft flight into, through, or out of the 200 mile intermediate area blanketing the Canal Zone, commanders of military aircraft will secure a Fighter Command clearance by filing a flight plan. With a view to the safe-guarding and protection of their equipment and personnel, operators of all other aircraft should follow the same procedure. Responsibility for this notification of flight plans is delegated to the clearance authority at the point of departure.

SAN JUAN, P.R. PRE FLIGHT CLEARANCES: The Isla Grande Airport at San Juan, Puerto Rico, is a part of the U.S. Naval Air Station, San Juan. Commercial air carriers may not operate at this field without receiving specific authorization from the Chief of Naval Operations, Washington, D.C. The Commanding Officer NAS, San Juan, may grant permission for one or two isolated landings. In any case proper authority must be obtained prior to landing at San Juan. Privately owned aircraft in a ferry status must obtain permission from the commanding officer before landing at Isla Grande Arpt.

PRE FLIGHT SERVICE: Pilots desiring to file flight plans are requested to do so with any CAA Airway Communication Station by personally visiting the station or by telephone. Radio should be used for filing flight plans only as a last resort. Pilots are urged to visit communications stations to obtain authentic flight information and assistance in planning their flights. Personnel at these stations are trained to render flight planning assistance. An objective of CAA pre flight service is to encourage pilots to familiarize themselves with flight conditions prior to commencing cross country flight.

TRAFFIC CLEARANCES: In order to prevent delay to aircraft operating in contact flight rule weather conditions and yet ensure adequate separation when and if instrument flight rule weather conditions are encountered, traffic clearances to pilots filing instrument flight rule (IFR) flight plans may amend such flight plans by requiring flight in accordance with contact flight rules (CFR) for all or a portion of the flight. A traffic clearance will specify the approved altitude followed by the abbreviation "CFR". Upon receipt of such clearance, the pilot will be responsible for avoiding other aircraft while operating in CFR weather conditions and for securing an amended clearance at the specified altitude before IFR weather conditions are encountered. The pilot must remain in CFR weather conditions until the amended clearance is received. For efficient operation, the use of this procedure can be determined only by Air Traffic Control. Pilots, therefore, should not file "altitude/CFR" in any flight plan; "altitude/CFR" is to be used only in a traffic clearance issued by Air Traffic Control.

AIRPORT APPROACH ZONES AND AIRPORT TRAFFIC ZONES CFR MINIMA: Part 60 specifies that CFR traffic within Airport Traffic Zones or Airport Approach Zones must maintain 500 foot vertical and 2000 foot horizontal separation from the clouds unless given traffic clearance by the control tower or control center concerned. Even under such clearance CFR flights must remain clear of clouds. These airport traffic zones and airport approach zones are indicated on the Flight Planning Charts of the Airman's Guide, and all recently revised Coast and Geodetic Survey Aeronautical Charts. In the interest of safety CFR flights must maintain the 500 foot and 2000 foot minima specified above while in these circular charted zones. (see page VIII of this publication for air traffic control procedures and weather minima).

FAIRBANKS, ALASKA AIR TRAFFIC CONTROL AREA CHANGE: Effective October 15, 1946, the Fairbanks, Alaska Air Traffic Control Boundary on Red Airway No. 39 was changed from 50 miles SW of Fairbanks to 25 miles SW of Nenana, Alaska.

TORONTO AIR TRAFFIC CONTROL AREA: Effective October 1, 1946, the Toronto Air Traffic Control Centre controls traffic conducted within the following airways: (a) Green 1 from 25 mi. N of North Bay, Ont. range, to 25 mi. SE of North Bay, Ont. range. (b) Green 2 from 25 mi. E of the intersection of the E leg of Romulus, Mich, range and the SE leg of Selfridge, Mich. range to 25 mi. W of the intersection of the E leg of Clear Creek, Ont. range and the SW leg of Buffalo, N.Y. range. (c) All of Amber No. 6. (d) Red 1 from 25 mi. NE of intersection of NE leg of Windsor, Ont., range and SE leg of Selfridge, Mich. range to 25 mi. E of Stirling, Ont. range. (e) Red 2 from Muskoka, Ont. range to 25 mi. SW of Killaloe, Ont. range. (f) Red 23 from 25 mi. NW of intersection of SE course of Toronto, Ont, range and NE course of Buffalo, N.Y. range to Toronto, Ont. range. (g) All of Blue 7. (h) Red 22 from the U.S.-Canadian Border to intersection of W course of Buffalo, N.Y. range and N course of Clear Creek, Ont. range.

MONTREAL AIR TRAFFIC CONTROL AREA: Effective October 1, 1946, the Montreal Air Traffic Control Centre controls traffic conducted within the following airway. (a) Green 1 from 25 mi. SE of North Bay, Ont, range to 25 miles E of Megantic, Que. range. (b) Red 1 from 25 mi. E of Stirling, Ont, range to 25 mi. NE of Quebec, Que. range. (c) Red 2 from 25 mi. SW of Killaloe, Ont, range to Killaloe, Ont. range. (d) Blue 4 from 25 mi. N of Burlington, Vt. range to Montreal, Que, range. Also, Montreal A.T.C. Centre controls traffic conducted within a 25-mile radius of following ranges: Montreal, Que.; Ottawa, Ont.

MONCTON, N.B. AIR TRAFFIC CONTROL AREA: Effective October 1, 1946, Moncton (Domestic) A.T.C. Centre controls traffic conducted within the following airways: (a) Green 1 from U.S.-Canadian Border to 25 mi. SW of St. Andrews, Nfld. rng. (b) All of Amber 3; (c) All of Amber 8. (d) Red 1 from 25 mi. NE of Quebec, Que. range to 25 mi. NE of Seven Island, Que. range. (e) All of Red 3. (f) Red Route 3 from Sydney, N.S. range to 25 mi. E of Sydney, N.S. range. (g) Red Route 4 from Sydney, N.S. range to 25 mi. E of Sydney, N.S. range. (h) Red Route 72 from 25 mi. E of intersection of SE course of Presque Isle, Me. range and N course of Blissville, N.B. range to 25 mi. E of intersection of N course of Charlottetown, P.E.I. range and Red Route 72. (i) Red Route 74 from Charlottetown, P.E.I. range to 25 mi. E of Charlottetown, P.E.I. range. (j) All of Blue 10. (k) All of Blue 11.

WINNIPEG AIR TRAFFIC CONTROL AREA: Effective October 1, 1946, Winnipeg A.T.C. Centre controls traffic conducted in the following airways: (a) Green 1 from 25 mi. E of Medicine Hat, Alta. range to 25 mi. W of Kenora, Ont. range. (b) Red 6 from intersection of W course of Winnipeg, Man. range and the SE course of Neepawa, Man. range to 25 mi. NW of Neepawa, Man. range. (c) Blue 8 from U.S.-Canadian Border to Winnipeg, Man. range. Also, Winnipeg A.T.C. Centre controls traffic conducted within a 25-mi. radius of following ranges: Winnipeg, Man.; Regina, Sask.

EDMONTON AIR TRAFFIC CONTROL AREA: Effective October 1, 1946, Edmonton A.T.C. Centre controls traffic conducted within following airways: (a) Green 1 from 25 mi. W of Cranbrook, B.C. range to 25 mi. E of Medicine Hat, Alta. range. (b) Amber 2 from U.S.-Canadian Border to 25 mi. W of Watson Lake, Y.T. range. (c) Red 6 from Edmonton, Alta. range to 25 mi. E of Edmonton, Alta. range. (d) All of Red 7. Also, Edmonton A.T.C. Centre controls traffic conducted within a 25-mi. radius of following ranges: Lethbridge, Alta.; Calgary, Alta.; Edmonton, Alta.

AIR TRAFFIC CONTROL AREA AND FLIGHT ADVISORY AREA BOUNDARY CHANGE: Effective October 15, 1946, the Control and Flight Advisory Area Boundaries between Chicago, Cleveland, and Cincinnati Centers were changed as follows: On Green 3 to 25 mi. W of Archbold; Blue 33 to 25 mi. SW of Archbold; Red 19 to 25 mi. SE of the relocated Ft. Wayne, Ind., range station.

NEW PRIVATE FLIER FREQUENCIES: Effective Jan. 1, 1947, all CAA Communications Stations will guard 122.1 mcs. and CAA operated towers will guard 122.5 mcs. in addition to those freqs. now guarded. These are the new frequencies assigned for use by the private fliers for air/ground communications.

GUARDING OF 3117.5 KCS. BY CAA AIRWAY COMMUNICATIONS STATIONS: Effective Oct. 1, 1946, all airway communications stations located at points also served by CAA airport traffic control towers discontinued continuous listening watches on 3117.5 kcs. Hereafter, communications stations at these locations will establish watches on 3117.5 kcs. upon "request" and during such hours as the associated tower is closed.

FEDERAL AIRPORT ACT HEARINGS AND PROCEDURES: All details of the Civil Aeronautics Administration's rules and regulations for use of federal money in airport construction will be open for discussion the week of October 28, 1946.. Those invited to the hearings are U.S. Conference of Mayors, American Municipal Association, National Insitutute of Municipal Law Officers, Council of State Governments, and the National Association of State Aviation Officials. Others, of course, may present their views, and the CAA will welcome briefs and memorandums submitted not later than November 8, 1946. Forms are now in the CAA's field offices for preliminary project requests. These are important to the CAA not only in planning its first year's work, but also in preparing the National Airport Plan, required by the Act. Once a project is tentatively selected, formal applications must include the sponsor's complete plans and specifications for the airport in question. The sponsor's assurance agreement, required in the tentative rules and regulations, lists all the responsibilities undertaken by a municipality. The provision that the federal funds be used to pay 25% of the cost of land brings up a number of rules regarding appraisal, title guarantee, etc. Communities also are reminded that federal money may be requested to pay for projects and planning that have been initiated since the law was signed, May 13, 1946. The proposed rules and regulations, published in toto in the Federal Register, can be obtained from the Superintendent of Documents, Washington 25, D.C., for 15¢, for study prior to the public hearings in October.

OPERATION OF SEAPLANES ON THE NEW YORK STATE CANAL SYSTEM: An official complaint has been received from the State of New York, Department of Public Works, that the New York State Canal channel is being used for the taking off and landing of aircraft. This channel is very narrow and has numerous curves. The taking off and landing of aircraft on this channel, therefore, is dangerous and presents a hazard to canal traffic and small boats. All airmen are cautioned that such activities may constitute careless or reckless operation of aircraft.

AERONAUTICAL CHART AND PUBLICATION CORRECTIONS: (a) Correct Orlando Sectional Aeronautical Chart, dated Aug. 6, 1946, by changing the bearing on N course of Tampa radio range to 355°-175°; Corpus Christi Sectional Aeronautical Chart, dated Aug. 6, 1946, by changing the area S of Corpus Christi, and E of Kingsville to a caution area instead of a danger area.

(b) Correct T.O. 08-15-1, dated Sept. 15, 1946, page 62, by showing the field elevation of Pyote AAF, Texas as 2612 feet.

(c) The correct elevation of Key Field, Meridian, Miss. is 297 feet. This corrects "Airman's Guide", Vol. 1, No. 14,

WEATHER REPORTING SERVICE

Weather Reporting Station	Type of Station		Effective Date
Whiteface Mountain, N.Y.	3-Hrly,6-Hrly & SW	Closed	Oct. 1, 1946
Columbiaville, N.Y.	Hourly	Closed	approx. Nov 1, 1946
Woodward, Pa.	Hourly	Closed	" Nov. 1, 1946
Putnam, Conn.	Hourly	Closed	Nov. 1, 1946
Pittsfield, Mass.	Hourly	Closed	Nov. 1, 1946
Hinckley, Minn.	6-Hrly & SW	Closed	--------
Canon City, Colo.	SW	Opened	--------

Note: Effective on or about October 15, 1946, the Philadelphia, Pa. (N.E. Airport) supplementary weather reports will be discontinued and hourly reports will be inaugurated in lieu thereof.

TELETYPE NOTAMS: Throughout the year climatic conditions (snow storms, floods, etc.) render many fields temporarily unusable or unsafe. In addition, there are intermittent maintenance operations in progress on many fields. Radio facilities suffer temporary power failures or course misalignments, and lighting facilities are temporarily inoperative. Because these temporary conditions cannot be given immediate coverage in the "Airman's Guide", full cognizance must be taken of Teletype Notam service which gives the desired coverage on any facility or field at which teletype transmitting stations are based. Cross-country pilots, accordingly, should consult these Teletype Notams for latest available data on air navigation aids. These teletype notams are posted in CAA Communications Stations and in all Army Air Field and Naval Air Station Operations Offices having teletype drops.

N.B.

AIRPORT TRAFFIC CONTROL PROCEDURES: (a) Planes with two-way radio should establish communication with control tower when 15 miles from the airport of destination and before taxiing or taking off.

(b) Planes without receivers, when approaching tower-controlled fields and before taxiing and taking off, should be on the alert for and be guided by light gun signals. (See AAF Regulation 100-4, dated March 4, 1944, and CAR Digest or Manual 60)

(c) Flashing tetrahedron lights, as well as the daylight operation of rotating beacons coupled with flashing red code lights, indicate suspension of CFR traffic.

AIR NAVIGATION AID DATA

All radio facilities except towers are CAA facilities unless otherwise cited. All towers are listed by operating agency. All range bearings are magnetic in-bearings. All fan markers and station location markers operate on 75 mcs. All radio facilities operate continuously unless otherwise specified.

LEGEND

** - New or revised airport, danger area, or miscellaneous data to be inscribed on charts or added to records.

★ - New or revised radio data to be inscribed on charts or added to records.

ALABAMA

ANNISTON AAF-Temp inactive-no facs. (See Special Notice re use).

BIRMINGHAM-RADIO: Courses aligned by ground check only. (10-2)

BIRMINGHAM ARPT-Closed to civil acft not equipped with operating rcvr. No landings on sodded areas. Ctn ngts or under IFR, plant S of fld has long taxi and parking strips resembling rnwys. No svcg mil acft 2200 to 0600. No maintenance.(10-9)

**BROOKLEY AAF (MOBILE)-RADIO: AACS, ground to air stn now operates on 4765 kcs., 137.88, 116.1, 140.58 mcs voice; 8200 kcs CW. (10-14). FLD: Soft-use rnwys, taxi strips only. No 91 oct. (10-4)

CAMP SIBERT AAF (ATTALLA)-CLOSED TO ALL ACFT.

CENTRE ARPT-N/S strip not mntnd. E/W strip rough. Tlfo lines E end. (4-9)

CHASTAIN'S ARPT (PRICHARD)-E/W strip under const, mrkd. (7-22)

COLUMBIANA ARPT-NE/SW strip unsafe. High grass S 500' N/S strip. (4-9)

CRAIG FLD (SELMA)-Twr obst lgts inop. No maintenance or RON facs. Bndry and N/S rnwy lgts inop. (9-9)

DANNELLY FLD (MONTGOMERY)-NE taxi strip closed (parked acft)(8-12)

GREENVILLE ARPT-SITE 24, NEW ORLEANS-ATLANTA-E 400' E/W rnwy unsafe (high grass) (9-2)

GUNTER FLD (MONTGOMERY)-RADIO: Army twr temp suspended. (5-16) FLD: Temp inactive-no facs.(See Special Notice re use). Use rnwys only. Sod areas adj rnwys and taxi strips soft.

HARTSELLE ARPT-N 900' W side avail. emerg. landings, bal fld unusable. (3-30)

HUNTSVILLE-Bombing and mortar firing is being conducted within the following described area: beginning at the Tennessee River Channel at lat 34-34-30, long. 86-44; due N to Southern RR; easterly along RR to long. 86-42; due S to said river; SW along river to point of beginning.

MAXWELL FLD (MONTGOMERY)-At ngt or under IFR conditions large depot 1 mi S looks like arpt and lgts give impression of parallel rnwys. NE/SW, NW/SE rnwys closed (const). Equip. on fld. (6-18)

MUSCLE SHOALS ARPT-Fuel, avail. civil. acft only. (8-1)

NAPIER FLD (DOTHAN)-Avail. civil. acft in emerg only. (8-6)

OZARK AAF-Temp inactive-no facs.(See Special Notice re use)

PRYOR FLD (DECATUR)-Mun. opers and acft sto depot. No collect calls or telegrams accepted by sto depot. (6-22)

TUSCALOOSA ARPT,SITE 59, FV-AG-Rnwys not lgtd although N bndry and parallel obst lgts may look like rnwy lgts. (9-16)

**TUSKEGEE AAF-RADIO: Army range and twr discont. Oct. 10. FLD: Temp inactive-no facs. (See Special Notice re use). N/S, E/W rnwys closed at N-S/E-W intersections; open for taxiing and emerg. only. (7-18)

TUSKEGEE INSTITUTE FLD NO. 1 (TUSKEGEE)-Soft in spots, mrkd. (1-21)

ARIZONA

ANDERSON MESA, BEACON SITE 44, LA-AQ-Soon, site consisting of 24" rot. bcn and course lgts atop 51' twr, flash. char "4" (. . . .) will be comm 36.2 mi SE Flagstaff, lat 34-56-50, long. 111-17-50. Elev. 7100'. (10-9)

ARIZONA-Continued

AQUARIUS CLIFFS, BEACON SITE 32, LA-AQ-Soon, bcn site consisting of 24" rot. bcn and course lgts, atop 51' twr, flash. char "2" (. . -) will be comm 68.4 mi SSE Kingman, lat 34-47-25, long. 113-25-00. Elev. 5612'.(9-4)

ASHFORK INT, SITE 36A, LA-AQ-Rough.(9-19).

COCHISE-RADIO: Courses aligned by ground check only. (10-9).

COCHISE INT, SITE T-3, PH-EO-Rough. Tall grass in spots on fld. Ctn when landing and taxiing. (9-20)

CONNELL MOUNTAIN BEACON SITE 34, LA-AQ-Soon, site consisting of 24" rot. bcn and course lgts flash. char "4" (. . . .) will be comm 49 mi NNW Prescott, lat 34-45-40, long. 112-57-30. Elev 6425' (9-4).

COOLIDGE ARPT-Closed-emerg use only.

**DATELAN ARPT-This is still an army fld and will hereafter be carried as Datelan AAF. (10-7) See page 84.

DAVIS-MONTHAN FLD (TUCSON)-E fld closed; acft parked on rnwys. Blinding ceilometer projector W end fld half way between ends of NW/SE, E/W rnwys.

DEEP LAKE INT, SITE 54A, LA-AQ-E end E/W, N end N/S strips rough with soft areas due wind erosion, soft sand, mrkd. (7-12).

DOUGLAS AAF-Temp inactive-no facs. (See Special Notice re use).

ECHEVERRIA FLD (WICKENBURG)-Use rnwys only (parked acft)

ERNEST A. LOVE ARPT (PRESCOTT)-Use wind tee SW of apron. (9-20)

FALCON FLD (MESA)-Closed to trans acft-no facs.(9-19)

FREDONIA ARPT-High weeds, cattle on strips. (9-3)

GILA BEND AAF-Tetrahedron inop. (8-26)

**GRANITE PEAK, BEACON SITE 29, LA-AQ-24" rot. bcn and course lgts flash. char "9" (--.) comm 20.5 mi SSE Yucca, lat 34-49-00, long. 113-52-15.Elev 6032'

HOLBROOK MUN. ARPT (HOLBROOK)-CLOSED (rough). (6-13)

INTERNATIONAL ARPT (DOUGLAS)-Temp closed (const). (6-17)

KINGMAN ARPT-No inst flights cleared to Kingman. No obst lgts atop Haulpai Mt. (8500' MSL) 11 mi S. Rnwy lgts Rnwy 17-35 inop. (7-12)

LITCHFIELD PARK NAF-No landings permitted later than one half hr before sunset without prior approval from CO. (9-19)

LUKE FLD (PHOENIX)-Traffic direction indicator on N hangar. (1-11)

MARANA AAF-CLOSED. (9-9)

**METEOR CRATER, BEACON SITE 46, LA-AQ-36" double end bcn flash. alternate clear and red, comm 25 mi SW Winslow, lat 34-59-22, long. 111-02-28. Elev 5634'. (10-12).

NOGALES INTERNATIONAL ARPT (NOGALES)-Use only NE/SW rnwy and paved taxiways, bal fld soft and rough due to heavy rains and erosion. (4-29)

PARADISE ARPT (GLENDALE)-Const. (6-3)

PHOENIX-Inst. train. on Phoenix Range between 5500' and 9500'.

RYAN FLD (TUCSON)-Use rnwys only, bal fld soft in wet weather, parked acft. Washes N edge. (8-8).

SELIGMAN INT, SITE 32, LA-AQ- On or about Oct 16, all facs will be discont. Fld will no longer be maintained. (9-25). LA-AQ-Rough. (4-24).

SKY HARBOR ARPT (PHOENIX)-N/S rnwy closed. Equip. on taxi strip to N of E/W rnwy and in dirt area S of E/W rnwy. (10-6).

THUNDER BIRD ARPT NO. 2 (PHOENIX)-Use strips only (parked acft).

TUCSON ARPT-Avail. civil. acft days only. (2-3)

WILLIAMS FLD (CHANDLER)-Use rnwys only.

WINONA INT, SITE 43A, LA-AQ On or about Oct 16, all facs will be discont. Fld will no longer be maintained. (9-25).

WINSLOW ARPT-E end E/W taxi strip beyond first tie-in closed. (7-27)

**YUCCA, BEACON SITE 28, LA-AQ-24" rot. bcn and course lgts flash. char "8" (- . . .), comm 6 mi S Yucca, Lat 34-47-00, long. 114-07-23.Elev 1798'.

YUMA ARPT-Closed-emerg use only.

ARKANSAS

ADMAS FLD (LITTLE ROCK)-Use rnwys only-shoulders soft. Equip. on fld.(8-7)

ARKANSAS-Continued.

EL DORADO-RADIO: Oct. 23 VHF range will be comm at lat 33-17-00, long. 92-48-00. Freq. 109.1 mcs, ident "LD" (. -.. - . .) Visual courses: 45°,225°; Aural courses 135°,315°,courses mag and towards sta. Mag. var: 7° E. Stn class: VARW. (8-14)

EL DORADO ARPT-GOODWIN FLD (ELDORADO)-Lgts avail. emerg only. (9-17)

FORT SMITH ARPT-Acft over 28,000 lbs use in emerg only. Use rnwys only-taxi strip and ramp being repaired. (7-8)

GRIDER FLD (PINE BLUFF)-Use strips only (parked acft). Closed ngts.(6-7)

HELENA-Two unlgtd 405' twrs crossing Miss. River at S edge City. (7-20)

JONESBORO ARPT-Use rnwys only. (8-16)

LUXORA INT, SITE 39 NO-LS-30' unlgtd pole line being erected S end N/S rnwy.

McGEHEE ARPT-Cattle on fld intmtly. (9-6).

McLAUGHLIN ARPT (HOT SPRINGS)-RADIO: Mobile Army twr transmits on 4420 kcs and receives on 4495 kcs only. (9-11). FLD: Use ctn when landing and taking off. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23).

PINE BLUFF-RADIO: Soon VHF range will be comm at lat 34-14-18, long. 91-55-36. Freq. 108.7 mcs. Ident. "PL" Visual courses 27°, 207°; aural courses: 117°, 297°. Stn class: VARW. Mag var. 7°E. (8-14) This corrects "Airgi", Vol. 1, No.11.

**ROGERS AIRFIELD-New fld. lat 36-22-15, long. 94-06-45, See page 64.

THOMPSON-ROBBINS FLD (HELENA)-Use rnwys only (parked acft).

WALNUT RIDGE ARPT-Acft parked all areas fld and ramp. Use rnwys only. Equip. on fld. Closed 1730 to 0800. (4-4)

CALIFORNIA

ALAMEDA NAS-Maintain high approach on Rnwys 26L and 22. Heavy acft parked these areas. 175' unlgtd cranes 2000' from NE corner fld-ctn ngts and during low visibility. Lgtd dredge and pipe extending to shore operating 1/2 mi S of lagoon in seadrome. Equip adj to and on rnwys. Fld on positive control. (8-16).

AMERICAN LEGION ARPT (SALINAS)-Obsts on E/W strip. (3-16)

ARCATA ARPT-Closed to acft without 2-way radio unless prior approval rcvd from Stn Director. All incoming acft required to file flight plan and ctc twr as soon as possible because of exten exper flying. Use surfaced areas only. (10-2).

BAKERSFIELD-RADIO: 116.1 mc transmitter temp inop. (10-10).

**BELLFLOWER ARPT-New fld. Lat 33-53-30, long. 118-06-45. See page 137.

BELMONT ARPT-Avail at pilots risk (equip). NW end Rnwy 28 closed. (4-23)

BRAWLEY ARPT-Holes in extreme NW corner fld. (3-20)

BROWN FLD NAAS (OTAY)-Use in emerg only (caretaker status-no facs).

BURBANK-RADIO: Intermittent interference from Navy transmissions on adjacent channel of 245 kcs. (5-23)

BURBANK-LOCKHEED AIR TERMINAL-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STA. Right traffic use Rnwys 7, 15; left traffic use Rnwys 25, 33. Approach lgts Rnwy 7 changed to red. Lgts on approach to Rnwy 7 partially obstructed by trees. 2-way radio required all acft. (8-2).

CAL AERO ARPT (ONTARIO)-Use rnwys only (parked acft).

CANNON FLD (FRESNO)-No take-offs to SSE. Traffic pattern to the E. (7-24)

CASTAIC-RADIO: FM flight-checked and oper normal. (10-8).

CATES, BEACON SITE 235 MI. BLINKER, SF-SA-Beacon inop. (2-17)

CLEAR LAKE SEAPLANE BASE-Avail. in emerg only. (6-11)

CORCORAN-135' unlgtd twr being const adj Santa Fe Railroad, downtown Corcoran Upon completion will be 148' high and lgtd. (2-24)

COTATI OLF-Crash truck avail. at Santa Rosa NAAS upon req. (6-11).

CROWS LANDING NAAS-Use in emerg only (caretaker status-no facs).

**DELPERT ARPK (NORWALK)-New fld. Lat 33-54-30, long. 118-06-15. See page 137.

DESERT CENTER INT, SITE 17, LA-PH-E/W strip emerg use only. (9-19).

CALIFORNIA-Continued

DONNER SUMMIT-RADIO: Range flight-checked Oct 9, courses correctly aligned.
EL CENTRO NAS-Lgts E/W rnwy inop. Avail 0700 to 1800. Other hrs on 30 min prior notice. Service rnwy will be lgtd for emerg use. (6-24)
EL TORO MCAS-Fld carrier landing practice Rnwy 25L. Trans acft use Rnwy 25R when practice in progress. Rnwy tests. Fld on positive control. (5-7)
★FAIRFIELD-SUISUN AAF (SUISUN)-RADIO: Army ILS now operates 1000 to 1600 for train. and emerg use. (10-4). Army range unreliable, use for homing only. (9-30). FLD: First 1000' Rnwy 25, new Rnwy 21,closed. (8-22).
GARY FLD (BLYTHE)-Use rnwys only (parked acft).
GRAND CENTRAL ARPT (GLENDALE)-CLOSED TO ALL ACFT IN EXCESS OF 35,000 LBS. Parking area pitted, mrkd. W end Rnwy 12-30 being shortened 1000'. (6-1).
**GUSTINE ARPT-New fld. Lat 37-15-45, long. 120-57-30. See page 48.
HAMILTON FLD (SAN RAFAEL)-Extionsion to Rnwy 12 closed except in emerg.(6-4)
HANWEE FLD (FRESNO)-Temp inactive-no facs. (See Special Notice re use).
**HARMON FLD (SAN JACINTO)-New fld. lat 33-46, long. 116-58. (9-24) See page 81.
HAWTHORNE ARPT-NORTHROP FLD (HAWTHORNE)-CLOSED EXCEPT ON OFF. BUS. Use Los Angeles Arpt.
**HOBERG ARPT (LOWER LAKE)-New fld. Lat 38-52-15, long. 122-40-30. See page 48. Take off to SSE-land to NNW. (7-11)
HUMBOLT COUNTY ARPT (EUREKA)-Closed to trans acft (const). (7-6)
INYOKERN NAF-HARVEY FLD (INYOKERN)-Use in emerg only (caretaker status-no facs). (8-14)
KERN COUNTY ARPT (BAKERSFIELD)-Unlgtd 92' pwr line 1/2 mi N of bndry.(7-3).
LINGBERGH FLD (SAN DIEGO)-Army temp inactive-civil. facs. Acft departing for or arriving from Mexico land at Lindbergh Fld for customs clearance. Closed to acft without 2-way radio unless prior approval rcvd from Arpt Manager. 30' crane SW end Rnwy 31. (8-21)
★LIVERMORE NAS-RADIO: Navy twr decomm Oct. 1. FLD: Avail. emerg use only.
LIVERMORE OLF-Obsts in SW corner fld. (2-4).
LOCKHEED AIR TERMINAL-See Burbank.
**LODI ARPK-New fld. lat 38-04-45, long. 121-18-45. See page 48.
LONG BEACH ARPT-RADIO: AACS, ground to air stn will be discont soon. (9-18) FLD: Obst lgts atop 165' twr Radio Stn KVOE 15 mi ESE (107°) true inop. No 91 oct mil acft. Ltd svcg. No maintenance. (9-30)
LOS ALAMITOS NAAS-Closed 1730 to 0800 except in emerg. Rnwy 22L closed.(9-1)
LOS ANGELES-SPECIAL NOTICE-All acft requested to avoid Hollywood Bowl area from 2000 to 2300 daily. (7-26).
LOS ANGELES-RADIO: VHF range will be comm soon at lat. 33-56-35, long. 118-25-49. Freq 109.1 mcs, ident "LA" (. - . . . -) Visual courses: 75°, 255°; Aural courses: 165°, 345°. Bear. and dist, stn to Los Angeles Aprt: 91°, 2 mi. Mag var 16°E. Stn class will be: VARN. (9-10). This corrects previous issues of "Airgi".
LOS ANGELES ARPT-MINES FLD (LOS ANGELES)-Unlgtd oil derricks on approach to Rnwy 34, Rot. bcn unlgtd days. E/W paved strips S side fld avail. taxiing only. N side fld under const. Equip. on fld, N edge Rnwy 7L-25R, and N side fld adj Rnwy 4-22. All landings, take-offs and taxiing rstd to paved areas. Rnwys 11-29, 4-22 closed. Army temp inactive-civil. facs. Trans mil acft use Van Nuys Metroplitan Arpt. Obst lgts atop Army twr SW corner fld inop. Rnwy, taxiing lgts Rnwy 4-22 inop. (10-11).
LOS ANGELES-LONG BEACH HARBOR EMERGENCY SEAPLANE LANDING AREA-May not be avail. on short notice due to congestion in anchorage area. Two hrs advance notice should be given if possible. (7-1).
★LOS BANOS-RADIO: Oct. 11, FM comm on NW course of Fresno range. See page 48.
MARCH FIELD (RIVERSIDE)-RADIO: Army (CAA type) ILS inop (reletn) (5-21)
MATHER FLD (SACRAMENTO)-RADIO: Army ILS temp inop. (7-25). FLD: Use rnwys only. Mat unserviceable. (3-18).
McCLELLAN FLD (SACRAMENTO)-Rnwy 4-22 closed (parked acft). Equip. adj all rnwys. Shoulders, unsurfaced aread unsafe. (4-24)

CALIFORNIA-Continued

**MENDOCINO ARPT-Will hereafter be carried under Little River. See page 19.
MERCED MUN. ARPT-Rnwys 24 and 30 closed. Land only on N side and parallel to Rnwy 30. (9-28).
MINTER FLD (BAKERSFIELD)-Temp inactive-no facs. (See Special Notice re use).
MIRAMAR MCAS (SAN DIEGO)-Rnwy 10-28 under const. Rnwy 6-24 avail. Fld on positive control. All acft in San Diego area use ctn while approaching Miramar MCAS. (3-19).
★MOFFETT FLD NAS (MOUNTAIN VIEW)-RADIO: SE course of Navy range realigned to 320°. (Oct 15) Ground-checked only. These data rcvd too late for inclusion on Flgt Planning Charts and for (O) symbol.
MOFFETT NAS-LTA (MOUNTAIN VIEW)-Equip, trenches adj NW/SE rnwy. Ctn landing, taxiing, taking-off. Equip on fld. Fld on positive control. Multi-engine acft above JRB class use Rnwy 14L-32R only, except in emerg. (7-23).
MOJAVE NAS-Equip on Rnwy 25. Fld on positive control. (8-18)
MUROC AAF-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN. Ltd within a danger area. 50' equip near W end Rnwy 6-24. No 91 oct. No facs 1900 to 0700 or Suns. (5-16).
**NAPA SKY RANCH ARPT (NAPA)-New fld. lat 38-19-30, long. 122-18-00. See page 48. Under const. (7-10)
NEEDLES-RADIO: 116.1 mc transmitter and receiver temp inop. (9-1)
NEWHALL-RADIO: Oct 7 range and voice fac shut down for conversion to class SBRL-VDT fac.
OAKLAND-RADIO: 116.1 mc transmitter and receiver temp inop. (9-13).
OAKLAND ARPT-Naval acft avoid fld except on off. bus. Closed to civil. acft except on authority from Arpt Supt. Rock surface area between E and taxiway and Rnwy 27R avail. lgt acft. Take-off from center of area, adhere to instructions issued by twr. Taxiway leading from Rnwy 33 to ramp at Navy Terminal closed. Equip. on grass area E of Rnwy 24 ncts. Area under const, mrkd. No gas or maintenance facs avail. 1800 to 0800 excent in emerg. Ltd gas, maintenance facs 0800 to 1800. No Army opers or svcs avail. 2300 to 0700. Army facs to be discont in near future. Rnwy 6-24 closed. (9-26).
O'CONNELL BROTHERS ARPT (BRAWLEY)-E/W strip being extended to 2400'. (7-21)
ORLEANS FOREST FLD (ORLEANS)-Fence across N end of fld. (8-14)
OROVILLE ARPT-B-2 port. lgts inop. (7-26).
PASO ROBLES-RADIO: Soon, VHF range will be comm at lat. 35-40-35, long. 120-39-30. Freq. 108.7 mcs. Visual courses: 145°, 325°; aural courses: 55°, 235°. (9-27).
**PORT MECCA APRT (MECCA)-New fld. lat 33-35-00, long. 116-05-30. See page 84.
**RAMONA ARPT (HEMET)-ABANDONED. (9-24)
**RAMONA ARPT-In active operation. Hump in center of strip. Acft at one end of strip cannot see acft at other end. (7-24).
**REID-HILLVIEW ARPT (SAN JOSE)-Correct letn: Lat 37-20, long. 121-49. See page 49.
RYAN FLD (HEMET)-N side matted area rough. (5-2)
SACRAMENTO-RADIO: 116.1 mc transmitter and receiver temp inop. (10-2)
SACRAMENTO ARPT-Acrobatics, low flying days from flight strip 1000' N of Sacramento Arpt. NW/SE rnwy avail. days. Use rnwys, taxi strips only - shoulders soft. Unsafe small acft-rough. (9-16)
SAN BERNARDINO CO. ARPT (DAGGETT)-Obst lgts atop 50' poles along RR 1000' from end Rnwy 3 inop. Closed to civil. acft except in emerg. (7-2)
**SAN CLEMENTE ISLAND NAAS-RADIO: Oct 14, Navy range discont. These data rcvd. too late for deletion from "Flight Planning Charts", "ANRA", "Directory" and for (R) symbol.
SAN DIEGO NAS-Traffic circle oval in shape with left turns at 800'. Traffic pattern may be entered at any point at any angle not greater than 45°. Landing will not be made without passing thru Point Love (White Pyramid Buoy) unless directed by twr. Point Love (White Pyramid Buoy(is lctd on traffic pattern 1-1/2 mi S of Hotel Del Coronado. Acft crossing air

traffic lanes at North Island must be above 1500'. Acft will not fly over Coronado or Amphibious Train. Base at an alt of less than 1500'. Multi-engine acft land on heavy duty rnwys, single-engine acft on asphalt mat. (9-26).

SAN FRANCISCO ARPT-Two lines unmrkd white spar buoys 8' above water moored in NW/SE direction along edges of shipping channel adj to easterly side of Seaplane Area and extend SE therefrom. Anchored vessels in shipping channel between lines of buoys. Vessels unmrkd and will be lgtd only as required. Avoid rnwy, taxiway shoulders. Turf area closed, unmrkd hazards. Use rnwys, taxiways. Rnwy 14-32 closed. (9-30).

SAN FRANCISCO BAY-Rnwy marker lgts and buoys in seaplane landing area N of San Francisco-Oakland Bay bridge between Treasure Island and the mainland have been temp removed. (2-6).

SAN MATEO ARPT-Const. Avail lgt acft only. (4-29)

★SAN NICOLAS ISLAND:-RADIO: Navy FM on NW course of San Clemente Island Navy range decomm Oct. 14. These data rcvd too late for deletion from Flgt Planning Charts and Anra, and for ⓪ symbol.

SAN NICOLAS ISLAND NAAS-Use in emerg only (caretaker status-no facs).

SANTA BARBARA-RADIO: VHF range will be comm soon at lat 34-25-40, long. 119-52-26. Freq. 108.3 mcs. Ident. "OY". Visual courses: 96°, 276°; aural courses: 6°, 186°. (10-12).

SANTA MARIA AAF-Stay clear rnwy, taxiway sides. E/W rnwy closed. Temp inactive-no facs. (See Special Notice re use).

SANTA MONICA ARPT-CLOVER FLD (SANTA MONICA)-Avail trans acft with 2-way radio. Closed ngts and to all student pilots. (8-10).

SANTA ROSA NAAS-Equip. along rnwys. E/W rnwy closed. (6-11).

SHERMAN FLD (WALNUT CREEK)-Surplus Acft Sales Center-parked acft.

SILVER LAKE INT, SITE 18, LA-6L-E quarter fld rough. (10-9).

STOCKTON FLD-Rnwy 4-22 closed. At ngt or under IFR large depot 6-1/2 mi S looks like arpt, lgts resemble parallel rnwys. Army temp inactive-civil. facs. (6-24).

**SUMMER HOME ARPT (MANTECA)-New fld. Lat 37-48-45, long. 121-12-00. See page 48. Irrigation culvert being installed across middle of strip. (7-22).

SWEETWATER LANDING STRIP-Arrangements for using this fld made thru Opers Officer NAAS Brown Fld. No communications at landing strip. (5-13).

TERMINAL ISLAND NAAS (SAN PEDRO)-Trans acft not cleared to fld after sunset. (9-4).

TRONA-RADIO: Receiving watches, voice fac and teletype service operating from 0800 to 2400.

TULARE LAKE SEAPLANE PARK-CLOSED (water level 2'). (7-17)

**VALLEY ARPT (MORGAN HILL)-New fld. Lat 37-06-45, long. 121-39-00. See page 48

★VAN NUYS METROPOLITAN ARPT-RADIO: Army twr decomm. (10-4). FLD: Army opers. removed. (10-7) See page 137a. Closed-emerg use only.

VENTURA CO. ARPT (OXNARD)-Bcn, bndry, obst lgts inop. Flare pots avail ngts, in emerg or by prior arrangement. (5-7).

VERNALIS FLD-CLOSED (equip, obsts on rnwys, aprons). (8-15).

VICTORVILLE AAF-Use Rnwys 16L-34R, 7R-25L only. (7-3).

**VICTORVILLE "66" ARPT (VICTORVILLE)-New fld. lat 34-28-00, long. 117-20-30. See page 81.

VULTEE ARPT (DOWNEY)-Rnwys avail. days only when on off. bus. (9-16)

COLORADO

ALAMOSA ARPT-CLOSED (rnwys under const, fld lgts and bcn inop). (9-30).

BUCKLEY FLD (DENVER)-Temp inactive-no facs. (See Special Notice re use).

DENVER-All acft observe bombing danger area approx 12 mi ESE within the following bndry: N by lat 39-41; S by lat 39-35; W by long 104-45; E by long 104-26. (8-15).

FORT COLLINS ARPT, SITE 5, DV-LR-30' unlgtd pwr line being const 200' S of N/S rnwy. (9-29).

LA JUNTA AAF-Temp inactive-no facs. (See Special Notice re use).

LOWRY FIELD (DENVER)-RADIO: AACS, ground to air stn temp suspended. (8-19). FLD: Ltd parking and quarters. (9-28).

MONTE VISTA ARPT-CLOSED (const). (8-8).

PINE VALLEY ARPT (COLORADO SPRINGS)-E/W rnwy avail. between markers only. New N/S rnwy being const W of present N/S rnwy. All rnwys being widened to 300'. Heavy const equip on fld days. Use rnwys only. (7-5).

PUEBLO-Demolition being conducted thru Oct 20 within the following described area: bounded on the N by lat 38-17-28; S by lat 38-16-19; W by long 104-18-38; E by long 104-17-40.

PUEBLO ARPT-Rot. bcn atop hanger when lgtd indicates fld closed except to scheduled air-carrier acft and shall be lgtd only when air-carriers are approaching fld or taking off. Capt of air-carrier acft shall report his arvl time not less than five minutes before approaching fld. Air-carriers taxi on oiled rnwys only. (9-13).

PUEBLO AAB-Temp inactive-no facs. (See Special Notice re use).

RIFLE ARPT-Strips under const. In emerg use the extreme N side of the E/W strip. Grade stakes on strip. (9-11).

ROYAL GORGE ARPT (CANNON CITY)-Do not land to the S (tlfo lines).(6-11)

RUSTON FLD (DENVER)-Const. Strips soft during wet weather. (9-20)

RUTLEDGE FLD (DU PONT)-Surplus Acft Sales Center-parked acft.

SKY RANCH AIRPORT (DENVER)-RADIO: Municipal twr temp inop. (4-1). FLD: Right traffic Rnwys 26,30,36; left traffic Rnwys 8, 12, 18. Traffic controlled by manually operated tetrahedron. Avail CFP oper days only. (3-27).

STAPLETON AIRFLD-DENVER ARPT (DENVER)-Ltd svcg facs. (5-25)

TRINIDAD ARPT-Avail lgt acft only. Hangar being constructed N end fld adj center of fence line. Equip on fld. (7-18).

WALKER FLD (GRAND JUNCTION)-RADIO: CAA ILS lclzr ident temp inop. (9-14).

CONNECTICUT

BRAINARD FLD (HARTFORD)-Equip on fld intmtly. Turf closed to heavy acft (soft) 300' bldg under const 1-1/2 mi NW of fld bndry, close to NW leg Hartford Range. Flood lgts N end N/S rnwy inop. 75' lgtd pile driver moored in Conn. River 700' S of N/S and NW/SE rnwy intersection. (7-24).

BRIDGEPORT ARPT-Use rnwys only. (8-2).

BROOKFIELD ARPT-Open only to planes grossing less than 2000 lbs and closed to trans student pilots. (6-10).

GROTON ARPT-Rnwys being repaired. Equip. on fld. (10-1).

HARTFORD-RADIO: Auto. range monitor. sys inop. (9-30).

NEW HAVEN ARPT-Avail days only. Use rnwys only. (12-4).

SIMSBURY ARPT-Turf soft. Washouts E end E/W rnwy. (5-21).

DELAWARE

BELLANCA FLD (NEW CASTLE)-Use rnwy only. Sod strips under const. (6-13).

DOVER AAF-Temp inactive - no facs. (See Special Notice re use).

NEW CASTLE CO. ARPT (WILMINGTON)-Sod fld within bndrys of rnwys avail. lgt acft. (9-18).

DISTRICT OF COLUMBIA

SPECIAL NOTICE-TELEVISION TWR 730' ASL ERECTED 6.2 MI NW (302°) OF WASHINGTON NATIONAL AIRPORT, LAT 38-53-46, LONG. 77-08-05. (3-22)

ANACOSTIA NAS (WASHINGTON)-Closed Oct 26 from 1415 to 1500 for Reserve Air Show. (10-8) Avail. 0700 to sunset. Avail. to transport traffic after sunset upon receipt of two hrs prior req of ETA. Boom const masts 100 to 150' high lctd 600 to 800' N of Rnwy 3-21, mrkd. (7-12)

BOLLING FLD (WASHINGTON)-Rnwys 10-28, 14-32 closed. Rnwy 17-35 closed to acft when weather conditions below ctc flight minimums. No 91 oct. (4-29)

WASHINGTON NATIONAL ARPT (WASHINGTON)-RADIO: CAA ILS shut down until approx Nov. 1. (10-9). FLD: NAVY: Closed to Navy acft except NATS. Use Anacostia NAS. In special instances, all of which will be cleared by Anacostia Twr, Washington National Arpt will be avail. to Navy planes. ARMY: All previous instructions re use rescinded and following substituted. Closed to trans Army acft except those of ATC, those having off. bus. at fld and those carrying VIP. Acft carrying VIP will make their stop as brief as is consistant with mission to be performed and in no case RON. Bolling Fld or Andrews Fld will be used for all other Army flights except in emerg. Army acft landing this fld should taxi to new ATC Terminal Bldg N of Admin Bldg. GENERAL: Closed to acft without radio. Stay on paved areas-edges soft. Excavation, equip. along taxiways 1,2,3,4,5,6; ends of Rnwys 18,21,33,27,36,3. Use extreme ctn when swinging planes in these areas. Equip. SE portion fld and along apron edge. Ctn taxiing or parking on apron. Flood lgts on Washington Monument 3 mi N inop. (9-23)

FLORIDA

ALBERT WHITTED ARPT (ST. PETERSBURG)-Fld unlgtd-smudge pots avail. on 1 hrs notice. Avoid sodded areas, white sand area E of N/S rnwy extending to water (soft). (1-2)

APALACHICOLA AAF-Temp inactive-no facs. (See Special Notice re use).

AVON PARK AAF-Temp inactive-no facs. (See Special Notice re use).

BANANA RIVER NAS-RADIO: Navy range flight-checked Oct 2, courses correctly aligned. Navy exper VHF rnwy localizers and various types of ILS operate intermittently day, ngt. (5-2) FLD: Closed to civil. acft days except on prior permission from CO and in emerg. Closed ngts to civil. acft except in emerg. S end Rnwy 2-20 under const. Taxiway lgts being installed-rnwy lgts being repaired, lgtd on req. Acft of various types operating cont during IFR up to and including 2000' with weather minimums as low as 200' ceiling and 1/8 mi visibility. Air space will include area 20 mi radius from Banana River NAS. Acft will practice inst approaches. (8-23)

BANANA RIVER NAS SEAPLANE BASE-Seaplane landing area avail. W of stn on Banana River. Wind line consisting of seven green lgts on location in center of area ngts when training is scheduled. (7-11)

**BELVEDERE ARPT (W. PALM BEACH)-Lat 26-42, long. 80-04. (10-3). See page 136.

BOCA RATON AAF-Port. floods avail. on 15 minutes notice. No 91 oct. Stay on rnwys-shoulders soft. (6-27)

BRONSON FLD NAAS (PENSACOLA)-Closed to all trans acft. (8-14)

CECIL NAAS (JACKSONVILLE)-Use in emerg only (caretaker status-no facs).

CROSS CITY ARPT-CLOSED (cattle on fld). (10-3)

DALE MABRY FLD (TALLAHASSEE)-RADIO: 281 kc, 126.18,118.3 mc transmitters and 3105,3117.5,4495,6210 kc, 118.3,126.18 mc receivers at CAA twr temp inop. Twr now operating on E side of fld with lgt signals only. (7-10). FLD: S 500' N/S rnwy unusable. 26' bldg erected 900' NW of NW end NW/SE rnwy, lgtd. Observe twr E side fld for lgt signals. Bcn atop water tank S of fld inop. Bcn N side fld burning, but not flash, code ident. (10-12)

DREW FLD (TAMPA)-Use rnwys only. Equip. on fld days. Avail. to radio rcvr-equipped acft tuned to twr freq. (6-28)

FLORIDA-Continued

EGLIN FLD (VALPARISO)-RADIO: Army ILS sys temp inop. (10-2). FLD: Acft approaching fld will enter Danger Area on the N or S side of area (25 mi S) along right edge of S leg of Crestview Range. (1)-Acft on CFR will fly 3000' or 500' below the ceiling whichever is lower, until cleared by Eglin Twr. (2)-Acft on IFR will enter at last assigned airways cruising alt and ctc Eglin Twr for letdown instructions. Exten const. All rnwys lgts inop. Closed 2000 to 0600. Rnwy 13-31 closed. Port. rnwy lgts avail. Rnwy 6-24. (10-1)

ELLYSON NAAS-EAST & WEST FLDS (PENSACOLA)-CLOSED TO TRANS ACFT EXCEPT IN EMERG.

FORMAN OLF (FT. LAUDERDALE)-Use in emerg only (caretaker status-no facs).

FORT LAUDERDALE-Obst lgts atop N twr Radio Stn WGBS 8 mi W inop. (9-23)

FORT LAUDERDALE NAS-Open to mil acft on off. bus. 0700 to 1800. Closed ngts. Tetrahedron free swinging. (10-9)

FOUNTAIN ARPT-ABANDONED. (8-26)

GILBERT FLD (WINTER HAVEN)-Use rnwys only. (12-22)

HIDDEN ACRES ARPT (CLARCONA)-E/W strip avail. lgt acft. (9-18)

HILLSBOROUGH ARPT (TAMPA)-CLOSED. Sinkhole center of E/W rnwy 100' E of intersection center of fld. (5-26)

HOEQUIST ARPT (ORLANDO)-S half E/W rnwy avail., mrkd. (3-20)

JACKSONVILLE ARPT NO. 1-Army facs only. Equip. both ends NE/SW rnwy. Rnwy 18R-36L closed. 30' unlgtd poles for neon approach lgt sys being erected at the SW approach end of NE/SW rnwy. (10-11)

JACKSONVILLE NAS-Closed to ngt seaplane opers. Trans acft desiring ngt landing facs notify Jacksonville NAS 12 hrs in advance. Equip. on fld days. (9-19)

KEY WEST NAS-150' lgtd oil derrick being erected 8 mi ENE (76°) true. (6-7)

KEY WEST NAS SEAPLANE BASE-CLOSED TO TRANS ACFT EXCEPT IN EMERG OR PRIOR ARRANGEMENT. (6-19)

LEE OLF (GREEN COVE SPRINGS)-Closed except in emerg and off. flights. Avail. on 24 hrs advance notice to CO, NAS Jacksonville. (1-26)

LIMESBURG AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT UNDER WRITTEN ORDERS OF AN AIR FORCE, COMMAND OR HIGHER AUTHORITY OR IN EMERG. No facs.

★MacDILL FLD (TAMPA)-RADIO: AACS, ground to air stn now operates on 116.1, 137.86 mcs, guards 2562, 4845, 4765 kcs voice, 8200,4595 kcs CW. (10-8) Glide path of Army ILS (308-51) temp inop. (6-19). Army H facs temp inop. (8-5) FLD: Rnwys 4-22, 13-31, 18-36 avail. (8-12)

MARIANNA ARPT-Equip. on fld days. Mrkd hole Rnwy 8-26. Rnwy 4-22 closed. (10-10)

MASTER OLF (MIAMI)-Closed from thirty min after sunset until 0700. (9-5)

MAYPORT CGAS-Closed to all traffic except Air Sea Rescue and emerg landings (caretaker status-no facs). Rnwys 32 and 36 to intersection closed. (9-27)

MEACHAM ARPT (KEY WEST)-Two unlgtd 40' water tanks 400' N of S end Rnwy 4-22. (7-10)

MIAMI INTERNATIONAL ARPT-AAF (MIAMI)-Domestic trans acft taxi to Army Terminal Bldg SE side fld upon arvl and before dptr and register with Ramp Supervisor. Scheduled Air-carrier and International Acft requiring immigration and customs service use 36th St. Terminal Bldg. Non-scheduled trans acft requiring customs service advise twr before landing. Use rnwys only. Closed to trans Naval acft-use NAS in vcnty. NE/SW rnwy closed. Equip. on fld. Majority of taxiways closed-under const. Unlgtd 25' hangar under const approx 300' S of centerline and 600' N of E end of N E/W rnwy. Obst lgts atop Seaboard R.R. Shops S bndry N fld inop. Svcg in emerg only and no maintenance trans Army acft 2400 to 0600. (9-14)

MIAMI NAS-Acft remain on N leg Miami Range for distance of 25 mi N of range stn when passing Miami NAS. Stay clear of NW corner fld-fighter train. break up area. Acft practicing touch and go landings ngts. (9-5)

MORRISON FLD (WEST PALM BEACH)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFT. BUS. OR IN EMERG. N/S rnwy closed. Air Rescue Service acft will be cleared into this fld. (10-9)

NORTH POMPANO OLF (POMPANO)-CLOSED (no facs). (1-24)

★ORLANDO AAB-ORLANDO ARPT-RADIO: AACS, ground to air stn now operates on 116.1 and 137.85 and 140.58 mcs cont. (10-2) FLD: 333' twrs Rdo Stn WORZ lctd 7 mi W (267°) true; properly marked and obst lgtd. (9-24). Closed to acft exceeding 50,000 lbs except for use alternate destination by scheduled airs carriers. North E/W, West N/S rnwys closed. No 91 oct. No Army maintenance Sats and Suns and from 1700 to 0600 daily. (10-9) Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0600 to 1200 daily Mon thru Fri. (7-1)

PAGE FLD (FT. MYERS)-NE/SW, NW/SE rnwy lgts, tetrahedron inop. Use E/W rnwy only at ngt. (9-14)

PENSACOLA ARPT-Ext Navy train. throughout area. Join pattern at 500' left turn and circle. Use rnwys only. Taxi to right on nearest avail. taxi strip. Opers and svcg lctd brick hangar. (9-23)

PENSACOLA NAS-CHEVALIER FLD (PENSACOLA)-Avail. days only. Ngts use NAS Corry Fld. Permission may be obtained to land at Saufley or North Whiting Flds. Multi-engine acft requiring rnwys in excess of 2500' land at NAS Corry Fld. bear. 341° NNW. Disposition Delivery acft land at NAAS Ellyson Fld. Pilots desiring to land at Chevalier Fld contact Pensacola Navy twr before entering traffic pattern. (8-22)

PETER O. KNIGHT ARPT (TAMPA)-Equip. on fld days. Sodded areas unsafe heavy acft. Rnwy lgts avail. on 1 hrs notice between 1900 and sunrise. (10-1)

PINECASTLE AAF-RADIO: Army ILS temp inop except for lclzr. (7-23). FLD: Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0600 to 1200 daily Mon thru Fri. Req pilots land at Orlando AAB if not on off. bus. this stn. No 91 oct. Closed to trans acft 1700 Fri to 0800 Mon. Army facs to be discont in near future. (10-9)

RICHMOND NAS-LTA-Use in emerg only (caretaker status-no facs).

RIDDLE FLD (CLEWISTON)-Heavy acft avoid lgt bar and rod steel mat. Twr oper only during scheduled flying. Unsafe areas partially mrkd days, unmrkd ngts. Cloud flying when clouds broken to overcast during daylgt hrs in area bounded by lat 26-27, lat 26-43, long. 80-50, long. 81-27. Use rnwys only. Grass areas flooded most of summer. (7-27)

RUSSELL-RADIO: Navy range temp inop. (10-24)

STENGEL FLD (GAINESVILLE)-Equip. on fld, mrkd. (5-24)

TAYLOR FLD (OCALA)-Use rnwys only. (5-6)

TITUSVILLE-COCOA ARPT (TITUSVILLE)-Hangar under const. (9-10)

TITUSVILLE INT, SITE 20, MM-AC-Soft and unsafe except that portion W of a line from S rnwy lgt on NE/SW rnwy to circle marker then W to N rnwy lgts on NW/SE rnwy and a strip 300' wide from circle marker E to old radio stn bldg. Tall weeds on fld. (10-6)

VERO BEACH-Blasting of ground structure will be in progress thru Nov 15, on North Island in an area lying between the Atlantic Ocean and Indian River extending 7 mi S from a line due E of Vero Beach. Dangerous to low flying planes. (8-3)

WHITING FLD NAAS-NORTH (MILTON)-Avoid fld area under 2000'. 6' sloping curb at rnwy edges. Tetrahedron indicates rnwy in use and not wind direction. NE/SW rnwy lgts inop. (3-2)

**WILLIAMS ARPT (JACKSONVILLE)-New fld. Lat 30-21, long. 81-43. See page 133.

**WITT ARPT (LAKE CITY)-New fld. Lat 30-11-00, long. 82-40-30. See pages 129, 133.

GEORGIA

ALBANY ARPT-Use rnwys only. (7-22)

ATHENS ARPT-Bndry, bcn lgts inop. (8-10)

ATLANTA-RADIO: Compass locator inop. (10-13)

ATLANTA ARPT-RADIO: Middle marker of CAA ILS lctd 3600' SE of SE end NW/SE rnwy, keyed with alternate dots and dashes will be comm soon. Outer marker will be relctd 4.5 mi SE of SE end NW/SE rnwy. Lclzr temp inop. (9-19) FLD: Const, equip. on fld intmtly. Use rnwys ngts. Closed to HB and VHB acft. Army temp inactive-civil. facs. Trans Army acft use Marietta AAF. Twrs of Radio Stn WSB 12 mi NE being dismantled, lgtd. (8-3)

ATLANTA NAS-Acft on IFR between 2000 and 0700 clear thru A.T.C. and proceed to Atlanta Arpt. Const equip. along rnwys. (5-10)

AUGUSTA-Three 310' twrs, one 420' twr being constructed by Radio Stn WGAC approx 5 mi N Augusta Range Stn, obst lgtd. (7-18)

BEMISS FLD NO. 3 (VALDOSTA)-Temp inactive-no facs. (See Special Notice re use)

BOWERS ARPT (BAINBRIDGE)-CLOSED (high weeds). (8-14)

BUSH FLD (AUGUSTA)-WAC planes parked entire fld off rnwys. Use rnwys only. Close flight plans with Bush Twr. (7-1)

CAMP STEWART AAF (HINESVILLE)-Temp inactive-no facs. (See Special Notice re use). Cattle on fld. (12-17)

CHATHAM AAF (SAVANNAH)-Temp inactive-no facs. (See Special Notice re use). Pot. bcn inop. (5-22)

COCHRAN FLD (MACON)-Temp inactive-no facs. (See Special Notice re use). Use rnwys, taxi strips only. (12-5)

COOK CO. ARPT (ADEL)-Lgts inop. (9-23)

DANIEL FLD (AUGUSTA)-RADIO: CAA twr comm Sept 5. Operates 0800 to 2400. Lgt gun oper only. (9-5). FLD: Closed to trans acft except air carriers and air evacuation acft from 1400 to 1730 Oct 19 and 20-air show. (10-14).

GLYNCO NAF-LTA-RADIO: Navy twr temp closed-operates on call on one hrs notice. FLD: Landing mat being repaired. (6-12)

HINESVILLE ARPT-Equip. on fld and in approach zones intmtly. (2-26)

**HUNTER FLD (SAVANNAH)-155' twr Rdo Stn WCGP, lctd 3.5 mi NNE (21°) true, properly obst lgtd. (9-11). Sharp incline of approx 20', 370' on approach to Rnwy 23L. 120' lgtd twr between Rnwys 10 and 15 outside outer perimeter. No taxiing permitted on ramp east of Terminal Bldg-congested vehicular traffic. Area being fenced off. Will be compd approx Nov 15. (10-9)

KINGS ARPT (MILLEDGEVILLE)-Soft after rainy weather. (7-22)

LA GRANGE ARPT-Heavy acft use rnwys, taxiways only-grass areas soft. (12-27)

LAWSON FLD (COLUMBUS)-MAKE ALL APPROACHES TO LAWSON FLD W OF CHATTAHOOCHEE RIVER, HIGH TRAJECTORY FIRING E, SE OF LANDING AREA DAY, NGT. Pilots may be required to make cross-wind landings. Use rnwys only. 4 lgtd parachute jumping twrs E of fld; mass parachute jumping from all alts under 1600' scattered thru area 10 mi sq. S of fld. Drainage ditch with unlgtd fence between ends Rnwys 2 and 32. Right hand traffic Rnwys 14, 20, 27; left hand on Rnwys 2, 9, 32. (6-25)

LE TOURNEAU ARPT (TOCCOA)-NE/SW strip closed (const). Avail. only with extreme ctn. 1000' extension being added to W end E/W strip. (8-6)

MARIETTA AAF-No 73 oct. Ltd sto. Facs avail. 0800 to 2000. Radio Stn WFOM erecting unlgtd 100' twr 2 mi WSW. (9-9)

**McRAE INT, SITE 47, MM-AC-Name changed to McRae Arpt, Site 47, MM-AC. (9-28)

MOODY FLD (VALDOSTA)-Temp inactive-no facs. (See Special Notice re use). 2 obst lgts atop Radio Stn WGOV inop.

NORTHSIDE ARPT (MOULTRIE)-NE/SW strip closed. (3-26)

**PARKAIRE FLD (MARIETTA)-New fld, Lat 33-58, long. 84-25. See page 125. Emerg use only-const. (8-28)

ROBINS FLD (WARNER ROBINS)-No 91 oct. (7-17)

ROCKY FORD FLD NO. 1 (VALDOSTA)-CLOSED TO HEAVY ACFT. (7-18)

ST. SIMONS ISLAND NAS-Avail. only to mil acft and scheduled airlines sunrise-

GEORGIA-Continued

to sunset. Closed ngts except on prior req. Only 100 oct avail. (8-3)
SOUTHER FLD (AMERICUS)-Use strips only-parked acft.
TURNER FLD (ALBANY)-Temp inactive-no facs. (See Special Notice re use). Use rnwys only. Rnwys 4C, 9R, 14C, 18L closed. (8-26)
VADA ARPT (BAINBRIDGE)-CLOSED (cattle on fld). (8-14)
VALDOSTA ARPT-Army temp inactive-civil. facs.
VIDALIA-LYONS AIRFLD (VIDALIA)-Temp inactive-no facs. (See Special Notice re use). Flight plans handled thru TurnerFld. (4-5)
**WOODBURY ARPT-New fld. Lat 32-59, long. 84-34. See page 125. These data rvcd too late for inclusion on Flight Planning Charts.

IDAHO

BENNETT FLIGHT STRIP (ANDERSON DAM)-Avail. for emerg use only. (5-7)
BURLEY ARPT-Use rnwys only (rough, vegetation). Soft spots on taxi strips. (7-19)
COEUR D'ALENE-RADIO: Courses aligned by ground check only. (10-4)
DUBOIS-RADIO: Range flight-checked Oct 12, courses correctly aligned.
GOODING ARPT, new-Use rnwys only-sod unsafe (erosion). (9-20)
GOWEN FLD (BOISE)-Army temp inactive-civil. facs. Use rnwys, taxi strips only-shoulders soft. Blinding 30 million candle pwr ceilometer 1000' NNW of arpt bcn. (9-13)
IDAHO CO. ARPT (GRANGEVILLE)-NE/SW strip under const. (9-19)
MOUNTAIN HOME AAF-Temp inactive-no facs. (See Special Notice re use). N/S rnwy closed. Gravel area W edge approx 20' sq. soft.
POCATELLO ARPT-6' ceilometer projector in centerof grass strip running parallel with Rnwy 5-23 and approx 75' S of rnwy at a point 500' W of taxi strip that intercepts Rnwy 29, lgtd. Equip. on fld days. (6-29)
POCATELLO AAF-Temp inactive-no facs. (See Special Notice re use).
PRIEST RIVER MUN. ARPT-NNE/SSW strip under const. (7-1)
REXBURG ARPT-W side N/S strip at S end washed out. (7-26).

ILLINOIS

ASHBURN ARPT (CHICAGO)-Avail. lgt acft under 2000 lbs only. Landing fee for heavier acft $2.00 and up. (7-25)
AURORA ARPT-Use strips only. (9-28)
BEARDSTOWN ARPT-S 400' N/S strip, 300' from end E/W strip and fld soft during heavy rains, mrkd. (7-15)
**CASEY ARPT-New fld. Lat 39-15, long. 88-00. (9-20). See page 68.
CHANUTE FLD (RANTOUL)-Ltd parking. (4-25)
CHARLESTON ARPT-Left traffic when wind from N or W; right traffic when wind from S or E. Unsafe heavy acft-soft. NE/SW rnwy closed (const). (9-23)
CHICAGO ARPT-NE/SW rnwy closed, unlgtd (parking area). Closed to trans mil acft except on off. bus. or in emerg. No Army facs. Army acft use Chicago Orchard Arpt. Closed to trans Navy acft except on off. bus. or acft containing officers of flag rank. Pilots must register in Terminal Bldg on arvl and check out on dptr. Floodlgts avail. on req. Following landing fees in effect to all non-scheduled revenue producing acft: 30 cents per 1000 lbs or fraction thereof of the gross weight of the acft. Minimum charge $2.00. Fee payable at Arpt Supt's Office before take-off. All numerals and letters on Rnwys 13L, 13R lgtd ngts. Hangar under const N side fld just E of NW corner. Obstn when taxiing. Covered ditch adj Rnwys 27L, 31R, mrkd. Ditch on E side Rnwy 36R, mrkd. (9-11).
CHICAGO-HAMMOND ARPT (LANSING)-Surplus Acft Sales Center-parked acft.
CHICAGO-ORCHARD ARPT (CHICAGO)-Closed ngts-no lgts. Ltd svcg and maintenance. (9-10)
CYRIL LEBERT ARPT (LEBANON)-Left traffic pattern at 400'. Watch for Scott Fld traffic. (6-22)
GALESBURG ARPT-Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23)

ILLINOIS-Continued

GEORGE FLD (LAWRENCEVILLE)-CLOSED (no facs). (5-15)
GLENVIEW NAS-Prior approval required all acft expecting to ROM except off. bus. regularly scheduled MATS or MATSFWS flights. Equip. on approaches. Non radio equipped acft land on mats only. Closed ngts except in emerg or by prior arrangement. (7-8)
INTERSTATE ARPT (DE KALB)-CLOSED. (5-11)
JOLIET ARPT-SITE 22, LS-CO-Emerg fueling and acft svcg avail. 2400 to 0800 on req. (7-18)
MARION ARPT-Ext. train. 8 mi radius. Trans pilots use left hand rectangular 600' traffic pattern. NE/SW rnwy closed. During wet weather use black rnwys only. (9-6)
MOLINE-RADIO: Following repairs, courses aligned by ground check only.(10-13)
**MOLINE ARPT-200' twr Radio Stn WQUA, 2.5 mi NW (333°) true obst lgtd. (9-26) 75' lgtd mast, 1500' W, 500' S of centerline of E/W rnwy guyed with cables. 30' lgtd gravel plant, 422' due W of SE end NE/SW rnwy. Pwr shovels, high boom near both plants. Equip. NW portion fld days. 20' antenna being erected 1000' S of N end N/S rnwy and 250' E of centerline N/S rnwy, mrkd. N/S rnwy closed (ditch both sides). (10-8)
**NASHVILLE ARPT-New fld. Lat 38-15-05, long. 89-15-06. (9-16). See page 68.
PEORIA ARPT-Closed ngts. (10-8)
**PHILARRY FLD (PEORIA)-Will hereafter be carried under Roanoke. See page 33.
PROSPERI ARPT (TINLEY PARK)-Use rnwys only. (7-5).
QUINCY ARPT-Extreme W end E/W, NW end NW/SE strips under const. (7-30).
RUBINKAM ARPT (HARVEY)-Use only area W of trench. (4-26)
ST. CHARLES ARPT-Closed except in emerg. (10-2)
ST. DAVID ARPT-Closed to cross-country acft. No svcg avail. N/S strip closed. New arpt under const 6 mi N. (6-13)
SCHILT FLD (OLNEY)-NW/SE strip soft in wet weather and after thaws. (9-21)
SMITH AVIATION FLD (ST. ELMO)-Use N/S rnwy only. Equip. on fld. (7-31)
SPRINGFIELD ARPT-Fld and strips soft after heavy rains. Unsafe heavy acft when soft. Closed ngts. (7-18)
VANDALIA MUN. ARPT-Use only N/S rnwy after heavy rains. (5-10)
WAUKEGAN ARPT-NW corner NW/SE rnwy, W end E/W rnwy unusable, mrkd. (8-16)
WHITE CO. ARPT (CARMI)-NE/SW strip rough. Low wires S end fld. (7-22)
YORK TOWNSHIP ARPT (LOMBARD)-Equip. on fld. (8-9)

INDIANA

ATTERBURY AAF (COLUMBUS)-Temp inactive-no facs. (See Special Notice re use).
AUBURN ARPT-Use strips only. Kerosene lanterns avail. in emerg. (5-14)
**BAER FLD (FORT WAYNE)-RADIO: Army ILS (CAA type) temp inop. (9-27). FLD: Temp inactive-no facs. (See Special Notice re use). Antenna poles rmvd. New poles erected 3.5 mi SW, lgtd. (10-14)
BENDIX FLD (SOUTH BEND)-Army temp inactive-civil. facs. Equip. on fld days. N triangle closed. (8-15)
BLOOMINGTON ARPT-Fresh grading soft when wet. (8-7)
BRIGHTWOOD ARPT (INDIANAPOLIS)-Fld under const. E/W rnwy closed. Pilots observe tetrahedron for rnwy direction. Taxi on well mrkd taxi strips and dead rnwys. (9-19)
CHAIN LAKES ARPT (SOUTH BEND)-Avail. acft up to 6000 lbs. Use strips only.
CHARLESTOWN ARPT-2000' strip under const-usable with otn. (9-16)
COLUMBUS ARPT-Turn off rnwys onto taxi strips after landing. (9-10)
EVANSVILLE ARPT, old-Use rnwys only. Equip. on fld days. (9-26)
★FORT WAYNE-RADIO: Oct 12, fac relocated at lat 40-56-20, long. 85-15-00, serving Baer Fld. See Page 36. About Oct 21, receiving and teletype facs will be relctd to Baer Fld. Ground-checked only. Stn lctn marker temp inop.
HULMAN FLD (TERRE HAUTE)-Use rnwys only (erosion). (8-28)

INDIANA

INDIANAPOLIS-RADIO: GCA unit operated by CAA on exper basis at Weir-Cook Mun Arpt, between the hrs 0800 and 1600 Mon thru Fri. Unit aligned for approach from the SW on Rnwy 4. Transmits on 212 kcs, 126.18 mcs, receives on 3105,4495,6210,3117.5 kcs, 126.18 mcs. Pilots desiring to make practice runs should make arrangements thru Indianapolis twr, Indianapolis Radio or airline ground stn at Indianapolis. All flights must be CFR prior to starting GCA runs and must remain CFR throughout approach. No run should be made in hooded cockpit unless accompained by safety pilot. 75 mcs bndry marker using keyed 3000 cycle tone, operating intmtly at SW bndry of arpt. Exper lclzr on 10.3 mcs operating intmtly SW end NE/SW rnwy. Exper Compass Locator at outer marker. Fneq. 219 kcs. Ident "ID". Exper FM operating occasionally 10 mi SW fld on lclzr course, modulation 3000 cycles, keyed "U". Exper radio range operating intmtly at Avon, Ind, 7 mi NW of arpt on 172 and 194 kcs. Mooresville holding marker 19 mi SW of arpt operating on low power keying "U", tone 3000 cycles. (10-2)

INDIANAPOLIS ARPT-Heavy acft use rnwys only. Const around N side fld,parking ramp. No crash equip. Mil pilots register with registrar in Admin Bldg Lobby, trans acft at City desk in Terminal Bldg Lobby. Rnwy 18L-36R closed.1 bldg and 22' mast 400' off centerline near SW end NE/SW rnwy. Tetrahedron being installed in triangle between NE/SW, NW/SE, E/W rnwys. EXPER OPERS: Approach lgt sys on SW approach lane; bndry lgts SW corner, operating intmtly. 2-1/2' exper rnwy lgts both sides NE/SW rnwy. Exper flights of all types in all weather conditions. 25' pole outside bndry 500' W of Rnwy 18; 65' twr 10' N CAA hangar; truck and 20' equip. 400' NW end NW/SE rnwy 500' W of rnwy centerline; truck 20' high NE corner at bndry 500' NW of NE/SW rnwy; 10' bldg with 25' antenna middle of W bndry; five 131' twrs 6 mi NW; 27' glide path stn 250' W of N/S rnwy and lclzr stn with 19' screen 700' N of N/S rnwy; 12' trailer 1000' NE of NE/SW rnwy on centerline; trailer adj CAA glide path 400' SE of NW/SE rnwy, all lgtd ngts. 15' unlgtd trailer 800' E of CAA hangar. (10-13) Closed to trans acft without two-way radio up to and including Oct. 23 except Sats and Suns. due to Exper flying being conducted within a 50 mi radius at all alts up to 6000' MSL from 0900 to 1800. All pilots advised to avoid this area if possible and thru flights should be at a minimum of 7000' MSL.

MADISON AAF-JEFFERSON PROVING GROUNDS (MADISON)-CLOSED TO ALL ACFT.

McCOMB ARPT (DECATUR)-Closed when wet. (5-10)

MICHIGAN CITY ARPT-Use only mrkd strips, taxiways-bal fld unsuitable for landing and taxiing. (7-27)

MORGANTOWN-RADIO: FM on S course of Indianapolis Range will remain in oper on exper basis until Nov. 1.

MUNCIE ARPT Hangar under const along S bndry. (8-31)

PERU ARPT-Use only rnwys unless strong cross wind conditions exist. (5-20)

PLYMOUTH ARPT-E/W strip avail. NNW/SSE strip avail with ctn (const). (7-3)

PURDUE UNIVERSITY ARPT (LAFAYETTE)-Due to heavy local traffic, trans acft avoid turning in middle of fld after landing. Continue to taxi straight to end of fld then taxi to within 100' of bndry to hangar. Scattered pools of water SW end NE/SW rnwy in wet weather. Const NE end of fld.(9-20

SKY HAVEN ARPT (BEDFORD)-Use rnwys only-shoulders soft. Left traffic pattern Const areas mrkd. (8-27)

SMITH FLD (FT. WAYNE)-Hangar under const N edge fld, mrkd. (10-5)

STARKE CO. ARPT (KNOX)-N/S strip soft. (7-25)

STOUT FLD (INDIANAPOLIS)-Temp inactive-no facs. (See Special Notice re use).

WHITTENBERGER ARPT (WABASH)-Use right traffic in landing S or W;left in landing E or N. No-wind conditions land to W. (8-16)

IOWA

AUDUBON AIRWAYS ARPT (AUDUBON)-Fld rough.

CEDAR RAPIDS ARPT-Use rnwys, taxi strips only. (9-23)

IOWA-Continued

CHAPMAN FLD (WATERLOO)-Bcn, bndry, obst lgts inop. Soft in wet weather(7-26)

COUNCIL BLUFFS INT, SITE O, OH-CG-Site will be discont and relctd soon 1-1/4 mi E of the E end of the E/W rnwy at Omaha Arpt, Nebr. (10-9)

CRAM FLD (DAVENPORT)-Const. Fld rough, equip. on fld. (3-21)

DES MOINES ARPT-Const. Entire area off rnwys E of N/S, NW/SE rnwys, E/W taxi strip closed. Use rnwys only.Equip. on fld. Army temp inactive-civil facs (9-9)

**DUNLAP ARPT-New fld. Lat 41-51-15, long. 95-36-15. See page 29.

**ELKADER AIRPARK-New fld. Lat 42-50-30, long. 91-23-00. See page 32. Strip rough and rolling. (5-22)

HARLAN ARPT-Strips plowed up-regrading. Strip E of N/S strip approx 1000' long avail. with extreme ctn-rough. (10-11)

HUNTER FLD (CEDAR RAPIDS)-Use rnwys only. (6-22)

**INDEPENDENCE ARPT-New fld. Lat 42-27-30, long. 91-58-15. See page 32.

IOWA CITY ARPT-Avail days only. Use rnwys, taxi strips only. Sod adj rnwys, taxi strips freshly seeded, graded. (8-30)

★MASON CITY-RADIO: MH fac relctd Oct 8 at lat 43-10, long 93-20.

MASON CITY ARPT-Sod between taxi strip and N end N/S rnwy unusable. (10-18)

OTTUMWA NAS-Equip. on fld. Only 73 oct avail. (7-25)

**ROCK FLD (OSKALOOSA)-New fld. Lat 41-16-15, long. 92-37-30. See page 32.

**SHENANDOAH MUN. ARPT-New fld. Lat 40-45-15, long. 95-25-15. See page 29.

SIOUX CITY ARPT-Blinding 30 million candle pwr ceilometer 1000' N of Admin Bldg. Facs avail. 0800 to 1700. (8-21)

**WILKE FLD (GARNER)-New fld. Lat 43-07-15, long. 93-37-15. See page 32.

**WINTERSET ARPT-New fld. Lat 41-20, long. 94-03. See page 32. Rough and rolling. (2-28)

KANSAS

ATKINSON AIRPORT (PITTSBURGH)-CLOSED (Const). (8-15)

BEECH AIRPORT (WICHITA)-Use rnwys only during damp weather. (7-1)

BLOSSER FLD (CONCORDIA)-Equip on fld intmtly. (7-13)

CESSNA ACFT FLD (WICHITA)-Portion of fld E of Rnwy 17L unsafe-large cracks. Stay W of flags. (10-11)

COFFEYVILLE ARPT-Use rnwys only. (9-23)

DODGE CITY ARPT-Blinding 25 million candle pwr ceilometer projector inatalled 1000' NW of Admin Bldg. E/W rnwy closed. Obst lgt atop W 50' antenna pole 300' W Admin Bldg inop. (10-10)

DODGE CITY AAP-Temp inactive. No facs. (See Special Notice re use).

DOWNS ARPT-When taking off to the S or E use right traffic. (9-30)

FAIRFAX FIELD (KANSAS CITY)-Use rnwys only. (3-12)

FORT RILEY-AA firing conducted immediately N of Marshall Range Sta.

GARDEN CITY AAP-Ctc Garden City Radio for landing information ngts. Svcg, opers avail. 0800 to 1630 Mon. thru Fri only. (10-9)

GOODLAND ARPT-Rnwy sides soft when wet. (9-20)

HERINGTON AAP-Temp inactive. No facs. (See Special Notice re use).

HUTCHINSON MUN. ARPT-Heavy acft use rnwys only. (9-23)

**HUTCHINSON NAS-Svcg avail on 2 hrs notice through Hutchinson radio.(10-1) Closed to all Navy acft except on off. bus. (10-1)

INDEPENDENCE AAP-Only N/S rnwy near ramp avail. Svcg, opers avail. 0800 to 1630 Mon thru Fri only. (9-20)

LAWRENCE ARPT-Center fld, taxi areas unusable, soft. Use rnwys only in dry weather. (8-16)

LLOYD FIELD (FT. SCOTT)-Use in emerg only (vegetation). (6-24)

MARSHALL FIELD (FT. RILEY)-For AA firing see Ft. Riley, Kans. Use rnwys, taxi strips, ramps only. Soft shoulders off rnwys. Obst lgts inop. 150' twr atop 1200' hill. (4-3)

OLATHE NAS-Closed 1800 to 0800-flights desiring landing during these hrs must notify opers before 1600. (6-13)

OLATHE OLF NO. 2-Use in emerg only - no facs.

OLATHE OLF NO. 4-Use in emerg only - no facs.

KANSAS-Continued

OLATHE OLF NO, 7-Use in emerg only. - no facs.
OLATHE OLF NO. 9-Use in emerg only - no facs.
SHERMAN FIELD (FT. LEAVENWORTH)-Left traffic on Strips 12, 15; right traffic on Strips 30,33. Use strips only. Strips soft when wet. 10' dike connects N end N/S strip. Closed to VHB type acft. (7-8)
★SMOKY HILL AAF (SALINA)-RADIO: Army DF (HF) and (VHF) stn decomm.(9-28) Army ILS (CAA type) temp inop. (6-25) FLD: E/W rnwy closed. (6-19)
TOPEKA-Inst flying radio range ngt, day. Call Topeka Radio at least 20 mi out before flying range.
WALKER AAF (HAYS)-Temp inactive. No facs. (See Special Notice re use). Trucks on NW/SE rnwy. (5-23)
**WICHITA ARPT-RADIO: About Oct. 17, glide path of CAA ILS will be comm on 335 mcs. (10-12) FLD: Bldg and antenna 750' N of S end N/S rnwy, 350' W of center line at elev 1350'. (10-12) Ctc lgts all rnwys under repair. Avoid taxiing over ctc lgts. Closed to trans acft without radio. Stay on concrete, sod unsafe. Equip on fld days. Army svcg, opers avail. only 0800 to 2000 daily. (9-20)
**WIRT FLD (NEWTON)-Name changed to Newton Arpt. See page 62.

KENTUCKY

BLUE GRASS FLD (LEXINGTON)-Use rnwys only. (6-24)
**BOWLING GREEN ARPT-150' Twr Rdo Stn WKAY, lctd 28 mi W. (83°)true;properly obst lgtd. (9-22)
BOWMAN FLD (LOUISVILLE)-CLOSED TO B-26 AND AT-23 ACFT. Heavy acft use rnwys only. Army temp inactive-civil. facs. Trans mil acft use Godman Fld. (6-28)
CAMPBELL AAF (HOPKINSVILLE)-Opers, engineering closed 1700 to 0800. (9-24)
GODMAN FIELD (FORT KNOX)-RADIO: Army range now operating reliably maximum power only 25 watts. Multiples on S course about 15 mi out. (6-24) FLD: CLOSED TO ALL HEAVY AND VERY HEAVY BOMBARDMENT TYPE ACFT EXCEPT IN EMERG. Oper office open 0800 to 1700 for clearance purposes only. Ngt lighting facs avail.upon 12 hr prior notice. (3-24)
GREATER CINCINNATI ARPT (COVINGTON)-Bndry lgts inop. (10-1)
STANDIFORD FLD (LOUISVILLE)-Bndry, rnwy lgts inop. Tetrahedron unlgtd, free swinging. (5-25)

LOUISIANA

★BARKSDALE FLD (SHREVEPORT)-RADIO: Army ILS (CAA type) temp inop.(6-4) AACS, ground to air stn now operates on 116.1 and 137.88,140.58 mcs. (10-10) FLD: Liaison type acft land Rnwy 14R-32L. Exten training - heavy traffic. (7-22)
COTTON VALLEY ARPT-E/W strip closed.
CROSS LAKE ARPT (SHREVEPORT)-CLOSED (const, equip. all strips). (4-29)
**CROSS LAKE SEAPLANE BASE-New base. See page 105. (10-4) Scattered obsts in seaplane area-ctn when landing. (10-4)
DE RIDDER AAB-Temp inactive. No facs. (See Special Notice re use).
EAST BATON ROUGE PARISH ARPT (BATON ROUGE)-Avoid SE corner fld, marked with white flags.
HOUMA NAS-LTA-Twr operates daylgt hrs on week days only for acft in connection with Bureau of Aeronautics Storage. Closed to all other acft except in emerg. No fuel. (7-22)
IBERIA PARISH ARPT (NEW IBERIA)-Use rnwys, taxi strips-sod shoulders parallel rnwys and taxi strips avail. lgt acft only. Rnwy lgts inop. (3-16)
JENNINGS ARPT-Use strips only in wet weather. Smudge pots avail. on prior arrangements. Unlgtd pole lines S and E side fld. (5-17)
LAFAYETTE AIRPORT-Avail. days only. Use rnwys only. (7-4)
LAKE CHARLES-RADIO: Flight checked Oct. 9. Courses correctly aligned.

LOUISIANA-Continued

LAKE CHARLES AAF-Blinding 30 million candle pwr ceiling lgt installed Stn WBAS. Operates during cloudy conditions. No 91 oct. (7-19)
**MINDEN ARPT-New fld. Lat 32-37-00, long. 93-18-45. See page 100.
MOISANT ARPT (NEW ORLEANS)-Use rnwys only ngts. Sod area 200' each side rnwys avail. lgt acft days only. Closed to all acft not equipped with 2-way radio except in emerg. 171' unlgtd steel derrick being erected approx 15 mi SSE in Lake Salvador. N/S, E/W rnwys closed-repairs. NE/SW rnwy avail. (10-14)
MONROE-RADIO: Range flight-checked Oct 13, courses correctly aligned.
MONROE ARPK,new-Arpk 1/2 mi SE of old Monroe Arpk unsafe (soft). (9-12)
NATCHITOCHES AIRPORT-Taxi to right. (4-23)
NEW ORLEANS ARPT-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. Obst lgts on S pole line inop. Equip on fld days. Non-radio equipped acft use extreme ctn. Closed to all Army acft except primary, basic and advanced (not inclg converted tactical type) trainers,utility cargo, C-46, C-47 series, C-60, C-64, liaison acft. helicopters and autogyros. (7-20)
NEW ORLEANS NAS-Avail. Navy acft not exceeding 9000 lbs daylgt hrs. (9-29)
SELMAN FLD (MONROE)-Closed to all acft except scheduled airlines.No svcg facs. Obst lgts atop twr, hangars,flood lgts atop poles W sidefld inop.Ngt lighting facs not avail. trans acft. Equip. on fld. (9-4)
SHREVEPORT ARPK, INC.-Const on fld. Land S of new hangar. Equip on fld days. (6-18)
SHREVEPORT AIRPORT-Use rnwys only. Two 120' derricks 1/2 mi SW fld and one 120' derrick 1-1/4 mi S within approach zone N/S rnwy lgtd. (8-7)
**SPRINGHILL ARPT-ABANDONED. (10-2)
TURNER FLD (MONROE)-W half N/S strip soft-E half avail. (9-25)Radio twr under const 4 mi NNE (25°)true,lgtd. (10-8)

MAINE

AUGUSTA ARPT-Bcn operating intmtly. Obst lgts atop poles 400' N of ENE/WSW rnwy, and on bldgs S side Admin Bldg inop. Equip. on fld days.(9-5)
BRUNSWICK NAS-Closed to all but off. flights(caretaker status - no facs.)
DOANES ARPT (BREWER)-N 1000' N/S rnwy avail.-bal of rnwy and E/W rnwy closed until spring-repairs. These data revd too late for ⓪ symbol.(10-14)
DOUGLAS FLD (BRUNSWICK)-Right traffic in use when wind is from the S.(10-22)
DOW FLD (BANGOR)-Temp inactive.No facs. (See Special Notice re use).E/W rnwy closed. Use concrete portion fld only. Closed 1900 to 0700. (7-1)
HOULTON ARPT-Closed to all acft except scheduled airlines and local opers. Other acft land by prior permission from Resident Engineer,tlfo2211.(10-10)
LEWISTON-AUBURN ARPT(AUBURN)-Safety strips,unsafe heavy acft-use rnwys.(7-20)
MILLINOCKET-RADIO: Auto. range monitor. sys temp inop.
MILLINOCKET ARPT-NW/SE rnwy closed from intersection to NW end. Grade stakes W side NW/SE rnwy until approx Oct 29. (19-8)
NORRIDGEWOCK ARPT-CLOSED - use in emerg only.
OLD TOWN ARPT-Use rnwys only -safety strips rocky. Lgts inop. (7-10)
PORTLAND ARPT-E/W rnwy closed ngts (ctc lgts inop).Equip.on fld days.(9-20)
PRESQUE ISLE AAF-RADIO: Army DF facs on standby status;services avail within 1/2 hr upon req over air to ground or point to point facs.(3-4)
RAYMOND'S ARPT (PHILLIPS)-NW end NW/SE strip soft beyond flagged area.(10-7)
SCARBORO ARPT-Avail lgt acft only.Use N/S strip.Land within flagged area.

MARYLAND

ANDREWS FLD (CAMP SPRINGS)-No 91 oct. (5-31)
**ANNAPOLIS-Caution area E has been discont.
**ANNAPOLIS ARPT-New fld. Lat 38-57-15, long. 76-29-30. See page 16. (10-5) These data rec'd too late for inclusion on Flight Planning Chart.

BALTIMORE MUN. ARPT-No crash equip. Use rnwys, taxi strips only-other areas soft. 2 cranes 20 and 40' high operating approx 250' S, SW of Rnwys 32, 27. 80' crane 800' N of N/S rnwy, mrkd. 65' lgtd boom on floating derrick 800' N of N end N/S rnwy, mrkd. Const, equip on fld. NE/SW rnwy closed (10-14)

BELTSVILLE OLF-Closed to civil. acft except in emerg. (7-31)

EDGEWOOD ARSENAL FIELD-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG OR PRIOR PERMISSION FROM CO. Closed Sat and Sun. Operates Mon thru Fri 0800 to 1600. Approach fld N of Penn. RR. High alt bombing E and S. Stay on concrete. (2-20)

ERCO ARPT (RIVERDALE)-Gen. fld const, however, one strip always avail.(9-20)

GLENBURNIE-WHIPP ARPT (GLENBURNIE)-Avoid flagged area-equip. (10-5)

HAGERSTOWN ARPT-Acft parked on hangar and factory apron, also along W bndry of fld just W of the N end of the N/S rnwy and N of the W end of the E/W rnwy. Use ctn in landing and taking-off in area off rnwys. (9-20)

LEE ANNAPOLIS ARPT (ANNAPOLIS)-N/S rnwy closed (const). NE/SW rnwy and black-topped taxiway avail.-unsuitable for acft heavier than twin-engined type. (10-8)

MARTIN ARPT (BALTIMORE)-First 1500' Rnwy 14 closed. Equip. all rnwys.(9-10)

MEEKINS NECK-RADIO: FM signals on NE course of Patuxent River Navy range, weak. (1-12)

PATUXENT RIVER NAS-RADIO: Navy GCA sys temp inop. (10-1) FLD: Taxi strips adj and parallel to Rnwy 13-31 between Rnwys 2-20, 6-24 closed. Ditches, equip. adj taxiway parallel to Rnwy 2-20, ditches adj Rnwy 9-27, mrkd. Equip. on fld. (9-24)

PHILLIPS FLD (ABERDEEN)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. Equip. on fld. Ltd svcg. No maintenance or RON. Closed Sats., Suns. Rnwy 4-22 closed. Approach fld from N only, fly heading of 200° from Aberdeen to fld. Avoid area 1500 yds S of fld; firing up to alts of 25,000'. No 91 oct. Closed to very heavy type acft.(7-30)

SCHROM ARPT (GREENBELT)-SE end NW/SE rnwy under const, mrkd. Use only rnwy pavement and taxi strips. (9-24)

WEBSTER FLD (PRIEST POINT)-Blue and white checkered flag flown on Opers Bldg during daylgt hrs when twr not manned. (2-6)

BARNES ARPT (WESTFIELD)-Oper of arpt ben days only indicates scheduled airlines in venty arpt. Acft proceed with ctn when ben lgtd. Ctc Westfield Radio for lgts. (8-4)

BOSTON-RADIO: Soon FM will be comm at Dedham, Mass located at lat 42-15-59, long 71-10-07, on SW course 14.4 mi from range sta. Ident, two dots, three dashes (. . - - -) Bear, and dist, range sta to FM: 238°,14.4 mi. When Dedham FM is comm, ident of Franklin, Mass FM will be changed to three dots, three dashes). . . - - -). (10-8)

BOWELS ARPT (AGAWAM)-High grass. Ltd maintenance. (6-6)

BROCKTON ARPT-E/W strip closed (const). N/S strip under const-avail with ctn. (6-4)

BROOKFIELD ARPT-Rough and steep. (7-22)

CAPE COD BAY-Wire cable 35' above high tide extending between wooden twr and fish processing plant has been established approx 5 mi SE Provincetown at lat 42-01-00, long 70-05-30, extending 1000' seaward from shore of Cape Cod Bay.

GRAFTON ARPT (NORTH GRAFTON)-Avail lgt acft. Heavy acft use ctn. Avoid W, SW portions of fld. (6-15)

LAWRENCE ARPT-At ngt use rnwys for landing and taking off. (3-23)

LOGAN ARPT (BOSTON)-Landing and dockage fees in effect as follows: Acft under 10,000 lbs $3.00; more than 10,000 lbs and less than 27,000 lbs $6.00; 27,000 lbs or over $10.00. Passenger planes shall pay in addition to above $1.00 per enplaning passenger. Freight, cargo and express planes shall pay in addition $6.00 per day or fraction thereof beginning at time of landing. Private or personal planes shall pay $1.00 when landing. All trans pilots must register at office of Arpt Manager and pay fees. Pilots will be denied clearance until fees are paid. All acft must be equipped with operating 2-way radio. (9-26) Closed to B-17 and all Army tricycle gear type acft-use Bedford AAF. Army temp inactive-civil facs. Range lgts inop. Equip. on fld. Mercury arc vertical beam NW end new temp NW/SE rnwy-used intmtly day, ngt. Floodlgts and wind tee rmvd. Equip. on perimeter of fld. New 5900' Rnwy 15-33 and Rnwy 4-22 avail. Rnwy 16-34 closed. NE 100' Rnwy 7-25 unsafe. Ditches N side Rnwy 15-33 midway between ends, mrkd. 100' floating derrick SW end Rnwy 4-22, mrkd. New hangar being erected SW corner of old fld, lgtd. (9-26)

MYRICKS ARPT-Wires on S end N/S strip. (7-13)

OTIS NAAS (FALMOUTH)-Use in emerg only (caretaker status - no facs.).

PITTSFIELD ARPT, SITE 3B, AZ-BW-Land according to wind sock. (8-27)

SOUTH WEYMOUTH NAF-50' lgtd antenna pole 2200' from S edge landing mat.(6-25)

SPRINGFIELD ARPT-Lgts inop. (6-24)

SQUANTUM NAS-Unlgtd 100' boom on lighter at bndry due W between Rnwys 2 and 8. Equip. at bndry. Fld avail. 0800 to 30 minutes prior to off. sunset. (9-27)

STEVENS FLD (NORTH ADAMS)-Avail. only lgt acft. (9-26)

WESTOVER FLD (CHICOPEE FALLS)-RADIO: Compass locators and middle and outer markers of Army ILS temp inop. (10-8) FLD: No maintenance for trans mil acft; acft requiring svcg other than routing, gas and oil should not land this fld. (7-31)

ABRAMS ARPT (GRAND LEDGE)-Hangar being const. N/S, E/W strips newly sodded. (6-20)

ADRIAN CITY ARPT (ADRIAN)-W side fld being gradded (stakes, flags). Extreme ctn in landing all strips except NE/SW strip. (3-18)

ANN ARBOR ARPT-Use rnwys only. Taxi strips being widened, apron and parking areas being enlarged. Equip. on fld. (6-14)

BAKER'S FLD (PORT HURON)-Use strips only. (6-25)

BISHOP ARPT (FLINT)-Use rnwys only when turf soft. Lgt acft use turf adj left side of concrete. Unmrkd acft parked on fld within 500' of bldgs. 160' water twr under const 1-1/4 mi NE, unmrkd. (8-15)

CALVIN CAMPBELL MUN ARPT (INDIAN RIVER)-Emerg use only. (6-24)

CAPITAL CITY ARPT (LANSING)-Use only rnwys, new N/S strip. Strip closed ngts. Equip. on fld days-acft parked W side fld E of apron. (9-20)

DETROIT CITY ARPT-Equip. on landing area days. Inbound acft required to have radio receivers. (7-12)

DETROIT NAS-Closed 1700 to 0800. (9-14)

DR. HAINES FLYING FLD (THREE RIVERS)-Sides and ends of strips soft. (9-10)

EMMET CO. ARPT (PELLSTON)-Avail. all acft days. (9-24)

FITCH H. BEACH ARPT (CHARLOTTE)-Caution on taxi strips. (5-10)

FORD ARPT (DETROIT)-CLOSED. Avail emerg use only. Use rnwys only. (8-14)

GLADWIN ARPT-40 x 60' unlgtd hangar NW corner fld. (9-27)

JAMES CLEMENTS ARPT (BAY CITY)-Closed ngts. Heavy acft use rnwys only.(7-20)

JEWETT ARPT (MASON)-Strips mrkd with yellow mrkers. Plowed areas unusable, (rough). (7-3)

KELLOGG FLD (BATTLE CREEK)-Equip. on fld. (6-2)

KINROSS AAF-Temp inactive. No facs. (See Special Notice re use).

LAPEER ARPT-Hangars under const. Use strips only. E/W,N/S strips being widened. (7-13)

LEACH AERO SERVICE ARPT (HARTFORD)-E/W strip avail., bal fld under const.(3-9)

MICHIGAN-Continued

LINDBERGH ARPT (KALAMAZOO)-Avail. ngts in emerg. All landings made in accordance with wind tee lctd midway between NW end NW/SE rnwy and N end N/S rnwy. (6-27)
MACKINAC CO. ARPT (ST. IGNACE)-Trucks, equip. on SE side fld. (9-20)
McKINLEY ARPT (FRASER)-Closed except to lgt acft in dry weather,soft.(4-26)
MOUNT PLEASANT ARPT-Strips soft in wet weather. (3-16)
MUSKEGON CO. ARPT (MUSKEGON)-Use rnwys only-rough. (9-20)
OSCODA AAF-Use rnwys, taxi strips only. Temp inactive. No facs. (See Special Notice re use).
OTSEGO COUNTY ARPT (GAYLORD)-Const-usable with ctn. (5-16)
PRICKETT FLD (SIDNAW)-Unusable - under const. (6-25)
RACO AAF-Temp inactive. No facs. (See Special Notice re use).
ROMULUS AAF-RADIO: Army ILS (CAA type) less glide path, inop. (8-30)
SAGINAW ARPT-Constructing new hanger S side of fld. (8-26)
ST. CLAIR COUNTY ARPT (PORT HURON)-Use strips only. (9-26)
SAULT STE MARIE-RADIO: Stn lctn mrkr flight-checked Oct 8, oper normal.
SAULT STE MARIE ARPT-Loose gravel on N/S rnwy. Use rnwys only. (9-20)
STINSON ARPT (WAYNE)Closed to trans acft. Const sides N/S rnwy. (7-10)
TWIN CITY ARPT-ROSS FLD (BENTON HARBOR)-Use rnwys only (shoulders, fld soft after heavy rains), marked. (6-26)
WASHTENAW ARPT (ANN ARBOR)-Use rnwys only. Avail days only. (8-14)
WILLOW RUN ARPT (YPSILANTI)-Equip. on fld. Trucks on NE/SW taxi strip.(6-15
YPSILANTI ARPT-Use strips only. (4-1)

MINNESOTA

ALEXANDRIA ARPT-New ramp being const adj present ramp. (7-12)
APPLETON ARPT-Use rnwys, taxi strips only. (6-26)
BENSON ARPT-Only NW/SE strip avail, bal fld under const. (6-16)
DECKER ARPT (AUSTIN)-Acft over 3500 lbs use caution. (6-28)
DETROIT LAKES ARPT-CLOSED (const). Will be avail. soon. (5-24)
FARIBAULT ARPT-Closed to all acft weighing over 5000 lbs. (5-16)
FERGUS FALLS ARPT-Temp closed (const). (6-17)
FLYING CLOUD ARPT (MINNEAPOLIS)-Const. (12-17)
MANKATO ARPT-Use strips only. (5-16)
MINNEAPOLIS-Lgt stop Foshay twr will be discont soon. (10-11)
MONTEVIDEO ARPT-Const until approx Oct 20. Temp rnwys avail. Equip. on fld. intmtly. (10-11)
ORTONVILLE ARPT-Temp closed (const). (6-20)
PARK RAPIDS ARPT-Temp closed (const). (6-17)
ROCHESTER ARPT-Equip. on infld. SW 800' NE/SW rnwy closed (repairs).(10-1)
ST. PAUL ARPT-Use rnwys, taxi strips only. (8-1)
THIEF RIVER FALLS ARPT-Const. Fld closed to hvy acft. Portion old E/W rnwy, most of N/S rnwy avail lgt acft only. (8-27)
UNIVERSITY OF MINNESOTA ARPT (NEW BRIGHTON)-E/W strip. N end N/S strip rough. (9-30)
VICTORY ARPT (MINNEAPOLIS)-Surplud Acft Sales Center - parked acft.
WHITNEY MEMORIAL ARPT (ST. CLOUD)-Ctn, glider opers. (6-19)
WILLIAMSON-JOHNSON ARPT (DULUTH)-Closed ngts. (8-1)
★WOLD CHAMBERLAIN FLD (MINNEAPOLIS)-RADIO: AACS, ground to air stn now operates on 4765,2936,4630 kcs voice, 4505,8200 kcs CW. Oct. 3, operation commenced on 116.1,137.88,140.58 mcs. (10-2) Army DF sts oper temp suspended. (2-14) FLD: Glide path bldg erected 400' E of N/S rnwy and 1000' N of S end of N/S rnwy marked day and ngt. (10-1) Crane with 100' boom operating NE side fld days, mrkd. Lgt acft use grass areas; heavy trans acft use rnwys. 3' trench, 10' long, 3' wide at S edge and at N edge of S side taxiway at junction of taxiway and E edge N/S rnwy and on N side same taxiway at W edge of N/S rnwy, mrkd. Equip. on rnwys, taxiways, loading ramp adj to hangars and Terminal Bldg W side fld 0800 to 1700 daily. (10-9)
WORTHINGTON ARPT-New fld 1/2 mi ENE unusable. (6-22)

MISSISSIPPI

AUGUSTINE FLD (JACKSON)-Use strips only-parked acft.
COLUMBUS AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys only. (8-19)
FOREST INT, SITE 46, FV-AG-Three bndry lgts SE side fld being replaced with flush type lgts and lctd 260' NW of old lctn and one conventional type bndry lgt with cone installed 1240' N of twr, 280' W of present bndry lgt, being in line with the three flush lgts. (9-17)
GREENWOOD ARPT-Use rnwys only-sodded portion soft. (9-9)
GRENADA ARPT-NE/SW rnwy closed. (6-28)
GULFPORT MUN ARPT-Closed ngts. Fld lgts inop. Ltd svcg. Avoid flying over area directly off SW corner. Entire sod fld avail. (5-27)
JACKSON-RADIO: 3105,4495,6210 kc receiver oper poor (interference).(10-14) These data rcvd too late (I) symbol.
JACKSON ARPT-Rnwys 16L-34R, 2-20 open to lgt acft only. Bndry lgts NW end Rnwy 11, SE end Rnwy 34 discont. Red guide lgts installed 100' from Rnwy 11-29. (8-14)
JACKSON COUNTY ARPT (PASCAGOULA)-Trans acft use rnwys only - drainage grills under grass. (5-17)
KRESSLER FLD (BILOXI)-Use rnwys only. Floodlgts avail on req. Ngt opers rstd to acft with 2-way radio. 20' boom NE corner NE/SW rnwy, mrkd. (5-6)
KEY FLD (MERIDIAN)-Radio Stn WTOK erecting 180' twr 5 mi NE, lat 32-22-46, long 88-40-04. (9-7)
LAUDERDALE CIVIL ARPT (MERIDIAN)-Cattle on fld. (6-6)
LAUREL AAF-Army temp inactive - civil facs.
McCOMB ARPT-West 1/3 of E/W strip unusable. (9-30)
WINONA ARPT-Use N/S strip only. (3-25)

MISSOURI

BUTLER ARPT-NW/SE, NE/SW strips being lengthened, all strips being widened. (9-18)
CHILLICOTHE INT, SITE 7, KC-CG-Avoid during wet weather. Sod areas slightly rough. (10-2)
COLUMBIA ARPT-Equip on fld days. Heavy student traffic. Ngt flying 3 mi radius fld. Sod at rnwys sides soft when wet. Traffic pattern 800' on down-wind leg. Blinding 20 to 30 million candle pwr ceilometer 1000' E of rot. bcn. 200' twr being const 1 mi SE, temp obst lgtd. (8-29)
FULTON ARPT-N/S rnwy closed to heavy acft. (5-24)
HARRIS FLD (CAPE GIRARDEAU)-Use strips only - parked acft.
HARVEY PARKS ARPT (SIKESTON)-Use rnwys only - parked acft.
INDEPENDENCE ARPT-N/S strip avail, bal fld closed (grading). (6-25)
JEFFERSON CITY ARPT-E/W, N/S strips avail. lgt acft only (sod soft when wet) NE/SW strip avail. twin-engine acft not exceeding weight of C45-C78.(5-11)
JOPLIN ARPT-Obst lgts NE end NE/SW rnwy inop. (10-10)
★KANSAS CITY-RADIO: Auto range monitor, sys comm Oct 7, monitor. NW course.
★★KANSAS CITY ARPT-RADIO: Effect Sept 30 lclzr glide ppth and bndry marker will be inop for indef period (const). FLD: Five 305' Twrs Rdo Stn KCMO, lctd 9 mi N (346°) true. Twrs spaced 506' apart and are obst lgtd. (9-23) CLOSED TO ALL ARMY ACFT EXCEPT IN EMERG-USE FAIRFAX FLD. Army acft rstd from refueling except in extreme emerg. Equip. on fld. Floodlgts on req. Neon approach lgt sys discont until approx Mar 3, 1947 due to maj const N end arpt. Levee around arpt, 20' above fld level 300' off N end N/S rnwy, unlgtd. Extreme ctn ngts. S portion fld immediately W and NW of Goebel Bldg being leveled. Fresh dirt being dumped to bring this port' of fld up to level. (9-27)

MISSOURI-Continued

KANSAS CITY-GRANDVIEW ARPT (KANSAS CITY)-Equip. on fld days. (8-1)
KIRKSVILLE AIRPARK-E/W rnwy under const, unmarked. (7-17)
**KNOXVILLE,Bcn Site 3, MC-CG-Comm 1-3/4 mi S of Knoxville. 24°clear rot bcn with red course lgts flash char 3 (. . . -) (9-8)
LAMBERT-ST. LOUIS ARPT (ST. LOUIS)-RADIO: Low clearances observed in blue and yellow sectors of ILS. (10-8) FLD: Surplus Acft Sales Center - parked acft. Closed to non-radio equipped acft. Equip. on fld and ramp. Const E, SE bndry fld. Taxi strip between Rnwys 6 and 24 SW quadrant closed. Obst lgt atop 200' tank 8/10 mi E of range stn inop. Navy facs closed 1700 to 0800 except when Opers Officer notified 2 hrs prior to 1700. (10-8)
LEBANON INT, SITE 54B, AQ-LS-Equip. on fld. (8-15)
McFARLAND FLYING SERVICE (SPRINGFIELD)-Right traffic all strips. (10-1)
ROSECRANS FLD (ST. JOSEPH)-Closed ngts. Beacon inop. (9-3)
★SEDALIA AAF (KNOBNOSTER)-RADIO: Army range, twr and ILS decomm. (10-2) FLD: Temp inactive - no facs. (See Special Notice re use). Use rnwys only.
SPRINGFIELD-GREENE CO. ARPT (SPRINGFIELD)-Use rnwys, taxi strips only-bal fld rough. Blinding 30 million candle pwr ceilometer projector in oper on E bndry. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23)

MONTANA

BAKER ARPT-2' gully across NW/SE strip 1200' from SE end, across E/W strip, 400' from E end. (6-5)
BILLINGS ARPT-Lgt lane for ILS operating for test purposes only. Lgtd lclzr bldg 1100' from W end E/W rnwy, lgtd glide path bldg 300' N of E/W rnwy adj E bndry. Army acft rstd from refueling except in extreme emerg. (9-23)
BUTTE ARPT-Blinding 30 million candle pwr ceilometer 267' E of center of N/S rnwy. (9-11)
COLUMBUS ARPT-E section arpt from middle of fld closed (const.). Equip. on fld, unmarked. (6-22)
CUT BANK ARPT-Obst lgts on twr, beacon inop. Ctc lgts avail. on req. (9-1)
GREAT FALLS AAF-RADIO: Army ILS (CAA type) lclzr, middle and outer markers temp inop. (9-24) FLD: Rnwy lgts 75' in from outer edge of rnwy shoulders-use 150' center strip. Rnwy 16-34 closed. (9-27)
HELENA ARPT-Rnwys rstd to acft under 30,000 lbs. Equip. on fld. Blinding 30 million candle pwr ceilometer 150' W of fld adj middle portion of W bndry. E/W, NE/SW rnwys closed-break in paving at W end of intersection. (10-2)
LEWISTOWN ARPT-Use rnwys only. (7-23)
MILES CITY ARPT-Bndry lgts inop. (9-20)
MISSOULA CO. ARPT (MISSOULA)-NE/SW rnwy closed. NW/SE rnwy closed to class B-17 or heavier acft. (6-23)
POLSON ARPT-Usable with caution. (7-19)
SIDNEY AIRPORT-Ends of strips in cultivation.
WOLF POINT ARPT-Hay stacks on fld. (9-10)

NEBRASKA

BEATRICE ARPT-Exten const. (5-24)
CLAY CENTER ARPT-Use strips only. (5-19)
CLEAR RIDGE ARPT (OMAHA)-Use strips only. (9-26)
ELGIN ARPT-Haystacks on fld. (5-24)
FREMONT ARPT-Equip, stakes on fld. (7-28)
GRAND ISLAND AAF-RADIO: Army ILS temp inop. (9-27) FLD: Only 73, 100 oct avail. (8-20)
KEARNEY AAF-2nd and 3rd Echelon maintenance not avail. Use rnwys, taxiways only. No svcg 1700 to 0800. (7-11)
LEE BIRD FLD (NORTH PLATTE)-Army acft rstd from refueling except in extreme emerg. (10-9)

NEBRASKA-Continued

LINCOLN ARPT-Private acft taxi and park on ramp S of Admin Bldg, stay clear of Airline traffic. (9-25)
McCOOK AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys only - shoulders extremely soft.
OMAHA ARPT-S taxi strip avail. only single engine acft. Use rnwys only. Rnwy 17R-35L avail. lgt acft only. Rnwy 2-20 closed. (9-17)
SCOTTSBLUFF-RADIO: Flight-checked Oct 9. Courses correctly aligned.
SIDNEY INT, SITE 50, SL-ON-E/W strip avail, bal fld rough. (9-20)

NEVADA

ALAMO ARPT (LAS VEGAS)-Const equip. SW end NE/SW strip. (3-13)
BATTLE MOUNTAIN FLIGHT STRIP, SITE 35, SF-SL-Use paved surfaces only - shoulders soft. Equip. on fld days. 40' unlgtd obst 800' from NE end NE/SW rnwy. (10-2)
BOULDER CITY ARPT-SW end NE/SW rnwy unusable. (10-8)
DOUGLAS-TAHOE ARPT (MINDEN)-S 700' N/S taxiway closed. (4-2)
FALLON ARPT-Closed except in emerg. (9-27)
**FALLON NAAS-No navy opers. (9-27)
FERNLEY (Site 22, San Francisco-Salt Lake)-Rough with soft areas due wind erosion, soft sand, marked. (7-10)
HUBBARD FLD (RENO)-Equip E, W ends Rnwy 7-25. (9-17)
HUMBOLDT INT, SITE 28B, SF-SL-Washes on SE quarter fld. (9-20)
INDIAN SPRINGS ARPT-Temp inactive. No facs. (See Special Notice re use).
LAS VEGAS-RADIO: VHF range will be comm soon at lat 36-11-06, long. 115-05-48 Bear. and dist, stn to McCarran Fld: 24°, 4.2 mi. Freq. 109.1 mcs. Ident. "LQ" (. - . . - - . -) Courses: Visual, 29°, 209°, aural, 119°, 299°. Mag Var: 16°E. Simult voice channel and receiving watches (3117.5 kcs, 116.1,131.7 mcs) avail 24 hrs daily. Stn class: VAR-VDT. (10-8)
LAS VEGAS AAF-No weather forecasting. Clearance by AFS. Opers and ltd maintenance facs avail. 0800 to 1700 Mon thru Fri only. Obst bcns No. 3 and 4 stop Sunrise Mtn inop. (9-6)
RENO AAB-Temp inactive. No facs. (See Special Notice re use).
SPARKS AIRPARK-Two 275' rdo twrs lctd 1 mi NNW (322°) true, obst lgtd. (9-24)
TONOPAH-RADIO: Stn unmanned from 2400 to 0800 daily. (7-31)
TONOPAH AAF-Temp inactive. No facs. (See Special Notice re use).
YELLAND FLD (ELY)-Bcn, bndry lgts along N/S rnwy inop. (10-3)

NEW HAMPSHIRE

BOIRE FLD (NASHUA)-Wind cone atop brick hangar bldg used to indicate wind conditions. In calm air conditions, take-offs and landings will be made toward the NW. (7-15)
BRATTLEBORO-HINSDALE AIRPARK (HINSDALE)-Use only N/S strip unless familiar with fld. (6-4)
GRENIER FLD (MANCHESTER)-RADIO: Glide path and inner marker of Army ILS temp inop. (7-23)
HOOKSETT LAND & SEAPLANE BASE (HOOKSETT)-Avail. days only. (5-9)
LAKES REGION ARPT (WOLFEBORO)-CLOSED (const). Grass strip avail. in emerg. (4-8)
LANCASTER AIR PARK-CLOSED. (4-25)
LEWIS FLD (LITTLETON)-CLOSED (const). (4-23)
NEWPORT ARPT-60' trees N end N/S strip. (10-9)

NEW JERSEY

ATLANTIC CITY NAS-Avail. 0700 to 1530 Mon thru Fri. ETA prior to 0700 and after 1530 required previous arrangement with Operations Officer. (7-11)
BENDIX-RADIO: Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.
BOUNDBROOK-RADIO: Tests of exper equip. will be conducted on freqs of 108.5 109.3,110.1 mcs.

NEW JERSEY-Continued

CALDWELL-WRIGHT ARPT (CALDWELL)-5' trench 2-1/2' wide 200' SE of NW/SE rnwy. (9-17)
CAPE MAY CGAS-Closed to trans acft except in emerg (caretaker status-no facs).
CARTARET-Beacon, side lgts inop. on twr Radio Stn WOR. (7-24)
FORT DIX-Artillery range at Fort Dix. When firing in progress, special traffic patterns are used.
FORT DIX AAB (WRIGHTSTOWN)-Temp inactive. No facs. (See Special Notice re use).
HEIGHTSTOWN ARPT & AIR SERVICE ARPT (HEIGHTSTOWN)-Under const. (3-12)
**LAKEHURST-Large caution area in this vicinity has been revised to a circular area having a radius of 10 mi centered at NAS, Lakehurst, excluding that portion which falls within the arwy. All acft remain above 3000' in the vicinity of Lakehurst and between the Naval Air Station and the coast. Intensive lighter than air (airship) activities being conducted.
LAKE SUSQUEHANNA ARPT (BLAIRSTOWN)-Temp fence erected at SW bndry of fld. (8-6)
NASSAU AIRPARK (CLARKSVILLE)-100' drainage ditch N side NNW/SSE strip, mrkd. (3-27)
NEWARK-RADIO: Multiples all courses.
★NEWARK ARPT-RADIO: Army ILS operating cont. See Page 80. FLD: To reduce the noise of acft flying over Newark residential areas and to avoid tall bldg section following must be complied with: 1. Increase the rate of climb as much as practical. 2. North-bound or East-bound acft make left turn as soon as practical when taking off to SW. 3. Make a half left turn as soon as practical when taking off to W. 4. Make a half right turn as soon as practical when taking off to N. Pass at least 500' to E of gas tanks lctd in Harrison when making a southerly direction approach to the N/S rnwy. 5. Whenever practical the arpt traffic controller will suggest the use of rnwys which will permit acft to avoid passing over residential and tall bldg areas. (9-7) Closed to all acft without 2-way radio. Landing fee for itinerant acft now in effect based on weight classification. All acft must taxi to the City of Newark Registry Office NW side fld and register. E 800' Rnwy 28 rough. Pilots are to make approach for numeral on Rnwy. No hangar space for Army acft. S 1800' from extreme end pavement Rnwy 1 closed until approx Dec 15. 75' lgtd pile driver approx 1000' W of Rnwy 10 and 300' S of centerline of Rnwy 10. (10-13)
RED BANK ARPT-E end E/W rnwy under const. Const beginning at the hwy and proceeding W 1200' to the intersection of the N/S rnwy. Area marked. (10-9)
**SOMERSET ARPT (SOMERVILLE)-New fld. Lat 40-37-30, long. 74-40-30. See page 80.
★TETERBORO AIR TERMINAL (BENDIX)-RADIO: Priv twr comm Oct 4. See Page 80. FLD: Heavy acft use NE/SW, N/S rnwys. Taxi strip S end fld incomplete. Acft landing from N must taxi back on rnwy to N end taxi strip. Use extreme ctn due to other acft landing on rnwy. Lgt acft use NNE/SSW rnwy. All acft landing and taking-off should be guided accordingly. (8-6)

NEW MEXICO

ALAMOGORDO AAF-RADIO: Army ILS (CAA type) inop. (8-7) FLD: Opers and svcg avail. 0730 to 1600 Mon thru Fri only. Rnwy 3-21 lgts inop. (7-19)
ALBUQUERQUE ARPT-Used by RFC. Avail. only for delivery surplus acft this fld, prospective purchasers of surplus acft or parts, or in emerg.
ANTON CHICO INT, SITE 78A, LA-AQ-No fuel. (5-30)
CLOVIS AAF-RADIO: Army ILS (CAA type) temp inop. (6-27) FLD: No 91 oct. (6-12)
CONDON FLD-See Notice under White Sands Proving Ground, N. M.
CREWS FLD, SITE 42, MO-PU-(RATON)-CLOSED (const). (4-29)
DEMING ARPT-Closed-emerg use only.
DEMING FLD (CENTER)-Closed - emerg use only.
DEMING FLD (SOUTH)-Closed - emerg use only.
EL MORRO-RADIO: About Oct 29, range freq will be changed to 353 kcs. (10-1)
GALLUP ARPT-E/W rnwy closed (5-4)
GALLUP CITY FLD-ENE/WSW strip under const. (5-7)
HOBBS AAF-Rnwys 3-21, 12-30 closed. Ltd svcg, maintenance. (6-10)
HOBBS MUN. ARPT-Allway landing area rough. Heavy acft use rnwys only. (7-21)
**HOT SPRINGS ARPT-165' twr Rdo Stn KCHS, lctd 6.5 mi SSE (164°) true, lgtd by red flash. bcn atop. (9-17)
JUNDT FLD (STRAUSS)-Avoid E 500' E/W strip. Fld soft when wet, dusty when dry. Closed to cross-country acft when wet. S half E/W strip being widened. (5-28)
KIRTLAND FLD (ALBUQUERQUE)-RADIO: About Nov 4, CAA twr freq will be changed to 278 kcs, 118.7,126.18 mcs. (10-2) CAA ILS will be comm soon serving the N/S rnwy with approach from the S. Mag heading for landing: 349°. Lclzr transmitter lctd 1030' N of N end N/S rnwy, freq 110.3 mcs, ident "AB" (. - - . . .). Glide path transmitter lctd 1500' N of S end N/S rnwy, 400' W of centerline, freq 335 mcs. Two marker bcns: outer marker lctd 4.32 mi S of S end N/S rnwy, keyed two dashes per sec; middle marker lctd 3400' S of S end N/S rnwy, keyed with alternate dots and dashes. (10-8) AACS, ILS and DF (HF) facs temp suspended. (6-25) FLD: Blinding 25 millio candle-pwr ceilometer projector installed 1000' N of Terminal Bldg. (6-5)
LAS VEGAS ARPT-Use rnwys only - bal fld unsafe. (5-30)
MAGDALENA MUN. ARPT-Large rocks, holes scattered over strips. Water across strips. Use ctn after rain. (5-6)
ROSWELL-Inten inst train. on Roswell Radio Range below, above, and in overcast. Acft inbound to Roswell or operating in vicinity under IFR, contact Roswell Radio for instructions.
ROSWELL AAF-Inside Rnwy 3L-21R closed. Ltd parking, svcg facs. (5-2)
SANTA FE ARPT, new-Rnwy lgts inop. Army acft rstd from refueling except in extreme emerg. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23)
**SEAMI, BCN SITE 64, LA-AQ-Redesignated as Site 65. (10-4)
WEST MESA ARPT (ALBUQUERQUE)-Surplus Acft Sales Center - parked acft.
WHITE SANDS PROVING GROUND.-All AAF acft intending to land at Condon Fld, White Sands Proving Ground will be cleared to Biggs Fld, Tex, and will obtain permission and instructions from Biggs Fld Opers before landing at Condon Fld when Condon Fld is "Arpt of first intended landing". This will be indicated on AAF Form 23 and the above permission and instructions obtained from Biggs Twr by radio prior to landing. Only acft under pertinent orders or off. bus. with White Sands Project will land at Condon Fld. (10-14)

NEW YORK

ALBANY ARPT-Equip. on fld intermittently. (6-20)
BUFFALO ARPT-Acft entering and departing Buffalo traffic zone use ctn-new arpt 4000' ESE. 70' unlgtd smokestack W bndry fld between E/W and NE/SW rnwys. (10-4)
CHEMUNG CO ARPT (ELMIRA)-Gliding and soaring activity over fld and vcnty. Lgts on req. Traffic gun displayed in front of main hangar during air carrier opers to control local traffic and at other times when circumstances make such practices consistent with safety. Equip. N and W of N/S rnwy days. (7-2)
CHEMUNG VALLEY ARPT (WAVERLY)-Right traffic when taking off or landing to the W and N. (9-20)

CLASON'S POINT-RADIO: Range will be comm soon at lat 40-49-11, long. 73-50-33. Freq 209 kcs, ident "LG" Bear. and dist, stn to LaGuardia Fld: 222°, 3.2 mi. Courses will be 42°,129°,222°,273°. Stn class will be: SBRAZ-VDT. VHF voice fac will transmit on 116.1 mcs, Stn will guard 3105,4495, 6210,3117.5 kcs, 116.1 mcs. The Clason's Point LFM will not be decomm as previously advertised. A FM will be comm at New Rochelle, N.Y. at lat. 40-54-17, long. 73-47-19, on the NE course of the New Clasom's Point Range soon. Bear. and dist, range to FM: 42°, 5.6 mi. Ident one dash (-); on the same date FMK will be comm at the New Rochelle, N.Y. FM site on 275 kcs ident "N" (- .). Note: See "New York-Special Notice-Radio". (9-13)

**CLIFF HAVEN ARPT (ACCORD)-New fld. Lat 41-47-45, long. 74-14-30. See page 44.

★FLOYD BENNETT FIELD NAS (NEW YORK)-RADIO: Sept. 16, Navy twr freq changed to 440 kcs,142.74 mcs. (10-7) This corrects Airgi Vol. 1 No.14. FLD: Closed 1700 to 0800. (8-15)

FORT PLAIN INT, SITE 40A, CV-AZ-Unsafe heavy acft-soft. SE 700' NW/SE strip unsafe all acft, mrkd. (4-4)

GLOVE CITY ARPT (GLOVERSVILLE)-Right traffic pattern except when taking-off or landing to E. NE corner fld unusable, soft area mrkd. Closed to all acft above 250 horse pwr. (7-3)

HILTON AIRPORT-Use rnwys, taxi strips only, bal fld closed. (4-1)

HYLAN FIELD (ROCHESTER)-Use strips only - caution when wet. (5-18)

IDLEWILD ARPT-Not yet opened-const. (9-9)

ITHACA ARPT-Right traffic pattern in use. (8-3)

KINGSTON-ULSTER AIRPORT (KINGSTON)-ESE/WNW strip closed. (3-20)

LA GUARDIA FLD (NEW YORK)-RADIO: Soon the outer marker of CAA ILS will be relctd at lat 40-42-54, long. 73-55-50, located 4.4 mi SW of SW end NE/SW rnwy. Same date outer compass locator stn (located at new outer marker site) will be comm. Freq 317 kcs, ident "C" (- - -). Note: See "New York-Special Notice-Radio". (9-13) FLD: ARMY ACFT HAVING OFF. BUS. WITH HQ ATLANTIC DIV ATC, FT. TOTTEN,N.Y. SHOULD LAND AT MITCHEL FLD AND USE ATC OPER FACS THAT POINT. CLOSED TO ALL NAVAL ACFT EXCEPT THE FOLLOWING BECAUSE OF HEAVY TRAFFIC AND INSUFFICIENT SVCG FACS: Acft containing personnel on off. bus. or with Cmdr Eastern Sea Frontier or Hdqs 3rd Naval Dist when RON or refueling services not required. Acft containing officers of flag rank shall not be forbidden fld. TRANS NAVY ACFT USE NAS, FLOYD BENNETT. Army temp inactive civil. facs. Equip. between NW/SE rnwy and ramps N of Hangars 2 and 4. Pilots of all mil acft upon arrival check in base oper office and contact AFS,fld ext 285. 10' high, 40' long obst 190' N of NE/SW rnwy, lgtd.Dump trucks outer edges fld days, clear of all rnwys. Obst lgts atop localizer shack approach end Rnwy 22 and end Rnwy 4. 70' lgtd boom 4000' SE of NW/SE rnwy. 20' lgtd bldgs 300' E of NE end NE/SW rnwy. NE 1300' Rnwy 22 rough. (9-6)

MacARTHUR FIELD (ISLIP)-RADIO: Priv twr operating on 278 kcs. Guards 3105 kcs. Operates 0900 to 1700, week days, can provide ngt and Sun service upon req if important. (2-7) FLD: Mobile inst landing units 20' high on all rnwys 500' from rnwy center line, lgtd ngts. Acft use ctn-unconventional flight test oper. (5-23).

MALONE-DUFORT AIRPORT (MALONE)-Land on rnwys or grass along side of rnwys. Taxi on hard surface. (7-26)

MASSENA-156' twr Radio Sta WMSA lctd 232°, 3.0 mi SW,temp lgtd with red lgts on top. Upon completion lighting facs will consist of 300 mm flash. beacon atop and four side lgts; two at 1/3 level, 2 at 2/3 level. (9-9)

MASSENA AIRPORT- Use rnwys, taxi strips only - turf rough. (6-11)

MITCHEL FLD (HEMPSTEAD)-RADIO: Army ILS (CAA type) temp inop. (7-31)

FLD: Rnwy 18-36 closed. (7-17)

MONTGOMERY FIELD (U.S. MILITARY ACADEMY NO. 1)(MONTGOMERY)-CLOSED. (11-7)

NASSAU ARPT (HEMPSTEAD)-Fld not maintained. (6-26)

NEW YORK-SPECIAL NOTICE-RADIO: Soon, The Clason's Point range, the New Rochelle, N.Y. FM and FMK, and the outer marker and outer compass locator stn on the CAA ILS at LaGuardia Fld will be comm on a temp basis operating only when LaGuardia Fld weather is ceiling unlimited and visibility ten mi or more to permit pilot familiarization with the new holding patterns and approach procedures which will be published at a later date in the "Airman's Guide" when fully developed and accepted.

★NEW YORK-RADIO - SPECIAL NOTICE:- Oct 15, Overseas Foreign Aeronautical Stn. WSY bdcasts Meteorological data designed to permit acft. engaged in overseas flight to take advantage of pressure pattern flying in the North Atlantic area. Info. bdcast every even Greenwich hour following transmission of the 25 surface weather reports and notices to airmen bdcast. The data to be headed Navigation Reports abbreviated "NAREP" will consist of the pertinent groups designated in PICAO as position and weather report, specifically the groups containing time, octant and lat., long. and position determinant supplementary group nine, wind group, true alt., and pressure alt. Initially the bdcast will be made on 3380kc only. Comments concerning this service will be appreciated.

NEW YORK-RADIO: The New York Radio Range will not be decomm as previously advertised. Note: See "New York-Special Notice-Radio" (9-13)

NEW YORK CITY-See Special Notice "Restriction on Flight of AAF Acft in New York City Area".

NIAGARA FALLS ARPT-Use rnwys, taxi strips only-soft spots along edges new E/W rnwy, mrkd days. Grass area S of mid E/W rnwy and E of N/S rnwy closed (tall stakes being driven into sod). Army acft rstd from refueling except in extreme emerg. Bndry. obst, wind sock and rnwy lgts avail. 2300 to 0700. (10-10)

PULASKI AIRPORT-Under const. Landing area being extended in all directions. (8-7)

REPUBLIC FIELD (FARMINGDALE)-RADIO: Priv twr operating on 371 kcs. Guards 3105,4495,6210 kcs. Operates days only. (2-15)

ROCHESTER AIRPORT-Use rnwys only (soft). No hangar space. Equip. on fld days. (5-19)

ROME AAF-Traffic alt 1500' MSL. Right traffic pattern. (7-15).

**RUSHVILLE ARPT-New fld. Lat 42-47-45, long. 77-13-00.(9-20)See page 41.

SALAMANCA ARPT-SPECIAL NOTICE: The Common Council of the City of Salamanca passed ordinance that any person violating traffic pattern Federal and State regulations subject to a penalty of $100. for each violation. Closed to heavy acft.

SALAMANCA ARPT-Right traffic pattern when landing and taking off to N-variable pattern to clear houses 1000' W of end of strip. (10-9)

SARANAC LAKE AIRPORT-Use rnwys, taxi strips only - turf rough. (6-5)

SCHENECTADY CO. ARPT (SCHENECTADY)-Equip. on N end fld. Trucks crossing N/S, NW/SE rnwys and taxiways. (10-3)

SCHOHARIE COUNTY ARPT (RICHMONDVILLE)-Right traffic pattern in use. (1-25)

SHERIDAN AIRPORT-(WILLIAMSVILLE)-E/W rnwy under const. NE/SW avail. with caution. (5-21)

STEPHENTOWN-RADIO: FM to be relctd on E course of Albany, N.Y. range.

STEWART FLD (NEWBURGH)-Pilots unfamiliar with Stewart Fld let-down procedure will not be cleared this fld under actual inst conditions. Final approach under these conditions will be made on SW leg Stewart Fld range only.(8-5)

SYRACUSE ARPT-Turf areas soft after heavy rains. (9-10)

NEW YORK-Continued

TONAWANDA AIRPORT-NE/SW strip rough. Acft may land on either side of rnwy. (6-11)
TROY ARPT-Bcn inop. (10-10)
WALLKILL FIELD (U.S. MILITARY ACADEMY NO. 2)(WALLKILL)-CLOSED. (11-7)
WATERTOWN ARPT-Lgts being installed. Land, taxi with ctn. Holes along rnwy edges. (8-1)
WESTCHESTER ARPT INC (ARMONK)-Const, tree removal equip on fld. (8-16)
WESTCHESTER CO. ARPT (WHITE PLAINS)-Const, excavation, equip. SW end NE/SW rnwy. Lgts inop due to repairs. 3 unlgtd 40' masts being erected off bndrys of fld approx 1000' SE of intersection of N/S and E/W rnwys. Equip. on NE end NE/SW rnwy daily from 0700 to 1800. (10-8)
WINDALE ARPT-Avail. lgt acft only-rough. (3-21)

NORTH CAROLINA

ASHEVILLE-HENDERSONVILLE ARPT (ASHEVILLE)-No ctc lgts installed on NW/SE rnwy approach all rnwys with ctn, equip on fld. No radio facs. (1-7)
ATLANTIC MCAAF-Use in emerg only (caretaker status - no facs).
BALLOON FIELD NO. 1 (FORT BRAGG)-CLOSED. (11-20)
**BYERS ARPT (SHELBY)-304' Antenna, Rdo Stn WOHS, lctd 4.5 mi NW (306°) true, obst lgtd. (10-4)
BOGUE MCAAF-Closed to all acft except in emerg (no facs). (7-11)
BROOKS ARPT (RED SPRINGS)-NNW/SSE strip soft, rough. (6-6)
BURLINGTON AIRPORT-CLOSED (equip.). (5-23)
CANNON AIRPORT (CHARLOTTE)-Surplus Acft Sales Center - parked acft.
CHARLOTTE-RADIO: Following repairs, courses ground-checked only. (10-12)
CHERRY POINT MCAS-Const, equip. on rnwys. Rnwy lgts being repaired. (7-17)
DOUGLAS ARPT (CHARLOTTE)-Army temp inactive-civil. facs.
EFFINGTON MAS-Use in emerg only (caretaker status - no facs).
ELIZABETH CITY CGAS-Stay on rnwys-shoulders soft, rough. Closed ngts from 1930 to 0730 except on prior req. All fld lgts inop. (9-13)
ELKIN ARPT-Under const. (4-23)
FAIRCHILD-CIVIL ARPT (BURLINGTON)-Use rnwys, taxi strip only. No fld facs. (3-29)
FORT BRAGG-Heavy firing is being conducted in all sections of Fort Bragg danger area up to 20,000 ft. All acft must avoid this area shown on Flight Planning chart 55, herein.
FORT BRAGG-Inten. train. days with radio control target planes from fld 6 mi due E of E end Pope Fld. Acft will operate within circle of 4 mi radius from center of fld with max alt of 2000' taking off by catapult, landing by parachute.
GREENSBORO-HIGH POINT ARPT (GREENSBORO)-Both sides Rnwy 32 to intersection soft, rutted. Use rnwys only. (9-9)
**HENDERSON ARPT-304' twr Rdo Stn HNC, lctd 4 mi N (11°) true, properly obst lgtd. (9-19)
**LEE COUNTY ARPT (SANFORD)-245' twr Rdo Stn WCGP, lctd 3.5 mi WSW (245°) true, properly obst lgtd. (9-19)
MORGANTON AIRPORT-Soon arpt will be closed to all acft - use Riverside Arpt. (4-26)
POPE FLD (FT. BRAGG)-CLOSED TO LIAISON TYPE ACFT WITHOUT 2-WAY RADIO-USE AUX STRIP 2 MI N, AT FT. BRAGG. Svcg avail. that fld. Heavy glider traffic. Equip. on fld days. 73, 100 oct avail. (8-26)
**RALEIGH-DURHAM ARPT (RALEIGH)-285' twr Rdo Stn WTIK lctd 8 mi NW; obst lgtd 1/4 and top levels. (9-19) ILS and transmitter bldgs 900' from NE end NE/SW rnwy. Glide path unit 400' S center line and 900' S of SW end NE/SW rnwy. Approach lgts 75' N of S end NE/SW rnwy and extending 1500' from end of rnwy. All obsts mrkd. (7-31)

NORTH CAROLINA-Continued

SEYMOUR-JOHNSON FIELD (GOLDSBORO)-Use rnwys only - shoulders soft. Temp. inactive. No facs. (See Special Notice re use).
**SMITH REYNOLDS ARPT (WINSTON-SALEM)-385' twr Rdo Stn WAIR, lctd 3.5 mi SW (215°) true, obst lgtd. (9-7)
WEEKSVILLE NAF-LTA-Avail. HTA and LTA acft daylgt hrs; ngts by prior tlfo arrangement or in emerg. (9-3)

NORTH DAKOTA

BISMARCK ARPT-Use rnwys only. Equip. on fld-resurfacing rnwys. Army acft rstd from refueling except in extreme emerg. Crash and fire fighting equip avail. 0800 to 1900 only. (9-16)
CHANDLER AIRPORT (WILLISTON)-Use strips only, bal fld rough. (5-10)
DICKINSON-RADIO: Moderate multiples E course, lgt multiples other courses.
DICKINSON MUN. ARPT-30' hay stacks near all edges of fld. Use rnwys only.
FARGO ARPT-HECTOR FLD (FARGO)-Tetrahedron flash. lgts indicates weather below CFR minimums. Bcn will operate only during hrs of darkness. (10-1)
GRAND FORKS AIRPORT-Use rnwys, taxi strips only. Shoulders soft. Equip. on fld. 50' const booms adj to NE corner fld, lgtd ngts. (8-27)
VALLEY CITY ARPT, SITE 71, HL-TWIN CITIES-CLOSED (const). Course lgts changed to red. Bndry lgts discont. (7-29)

OHIO

AKRON ARPT-Surplus Acft Sales Center-parked acft. Use rnwys only. Equip on fld days. Trans pilots must register in Admin Bldg on arvl and dptr. Ltd svcg facs only. (5-27)
BRECKLING AIR SERVICE (CLEVELAND)-Large ramp under const. (7-24)
BRICKER FLD (BOWLING GREEN)-Use right traffic when landing or taking off to N, W and SW. (7-17)
BROOKFIELD AIRPORT-Avail. lgt acft only. Use E/W strip, N/S strip under const.
BRYAN-DEFIANCE MEMORIAL AIRPORT (DEFIANCE)-Use E/W rnwy only, bal fld and rnwys under const. (7-3)
CEDAR LAWN AIRPORT (KENTON)-Use strips only. (6-26)
CHERRY FORK INT, SITE 4, CC-WA-Unlgtd 30' pwr line 500' N of N/S strip. (8-3)
CINCINNATI AIRPORT, INC. (SHARONVILLE)-Taking off to W, SW, S use right traffic pattern. (5-1)
CLEVELAND ARPT-Trans pilots must register in Terminal Bldg upon arvl and dptr. Landing fee on all civil. multi-engine acft. Rnwy 9-27 closed (const). Parts of mat under const. (9-27)
CLINTON COUNTY AAF (WILMINGTON)-Rnwy lgts avail. on one hrs notice. For flight thru danger area, permission must be obtained from Cincinnati Airway traffic control center upon entering or prior to departure from ATC area. Inten inst train. being conducted - for danger area description see Wilmington, Ohio. (7-8)
CONNEAUT AIRPORT-Use mowed strips only. (6-4)
DAYTON ARPT-Use rnwys only. Equip. on fld. Approach lgt lane under const for approx 1500' off SW end Rnwy 6-24R. Consists of poles graduated up to 32' in height. (9-26)
FINDLAY AIRPORT-Green rnwy lgts removed from NW end NW/SE rnwy due to const of new 30' hangar NW corner fld adj to CAA bldg. (6-5)
GRIESER AIRPORT (WAUSEON)-Use strips only. (7-3)
GRIMES FIELD (URBANA)-Use strips only. Land according to wind tee lctd in center of fld. (5-27).
HAYESVILLE INT, SITE 27, LV-CV-Unlgtd 80' twr 1500' S. (8-4)
LANSDOWNE ARPT (GREENVILLE)-Equip on fld intmtly. (8-12)
LIMA AIRPORT-1320' of the E portion of fld avail. in emerg only - under cultivation. (7-26)
LOCKBOURNE AAB (COLUMBUS)-RADIO: Lclzr of Army ILS (CAA type) inop for indef period (6-21) FLD: Use rnwys, taxi strips only-shoulders soft. (4-29)

OHIO-Continued

**LOSAIN ARPT-Name changed to Lorain City Arpt. (9-30)
LORAIN CITY ARPT (LORAIN)-Water main being run thru the SW corner of fld, temp shortening NE/SW strip to 1800'. Will be completed approx Oct 27.
LOST NATION ARPT (WILLOUGHBY)-Const. Pilots use rnwys indicated by wind sock and tetrahedron lctd S side arpt. (7-9)
LUNKEN ARPT (CINCINNATI)-Fast landing acft use ctn. Slightly rolling section Rnwy 6-24. Army facs ltd. Crash and fire fighting equip. 0800 to 1700 Mon thru Fri only. (9-27)
MANSFIELD ARPT-RADIO: Priv. twr and low-powered range (lclzr) operate on req or for training. Freq 269 kcs, Ident "IV". FLD: Equip on fld (const).
MARION ARPT-Use only NE/SW, NW/SE rnwys W side fld. NE/SW, NW/SE strips extend into cultivated area W end of fld. (6-4)
MATHER ARPT (CLEVELAND)- Closed to trans acft except on special permission. Const on 1C00' NW/SE, 1100' NE/SW rnwys. (8-22)
McKINLEY ARPT (CANTON)-330' twr Radio Stn WCMW being erected 5 mi WNW (285°) true. (6-9)
MEDINA PRICHARD ARPT (MEDINA)-NE/SW strip under const. (10-1)
MIDDLETOWN ARPT-Right traffic pattern taking off to S, SW and W.
NORWALK ARPT-Ditch N end N/S strip adj to side of road. (7-24)
OHIO STATE UNIVERSITY ARPT (COLUMBUS)-Const. Trans use rnwys only. (9-17)
OHIO UNIVERSITY ARPT (ATHENS)-3' ditch W end fld. (5-18)
PARKS WATSON ARPT (CINCINNATI)-Right traffic pattern in take-offs to E, NE, SE. (4-2)
PATTERSON FLD (FAIRFIELD)-RADIO: Glide path of Army ILS unreliable for ceilings under 1C0'. (7-1) Army CCA sys temp deactivated. (8-16)
PAULDING CO ARPT (PAULDING)-Soft when wet, land at own discretion. (6-7)
PORT COLUMBUS ARPT-NAS (COLUMBUS)-Rnwys and taxi strips being resurfaced, all areas marked. NW/SE rnwy except at intersection first rnwy closed. 10' bldgs being erected: 400' E of E end of E/W rnwy and on center line of E/W rnwy; 400' E of E end E/W rnwy and 250' S of center line E/W rnwy; 750' E of W end of E/W rnwy and 400' S of center line of E/W rnwy. 18" trenches being dug: on SW side NW/SE rnwy from Admin Bldg to NW end NW/SE rnwy; from Admin Bldg to just W and parallel to Navy opers area terminating at bldg lctn 400' E of E end of E/W rnwy, mkd. Neon approach lgts being erected 85' N of center line of E/W rnwy and from W end of E/W rnwy to approx 1500' W. (7-16)
SULLIVANT AVE ARPT (COLUMBUS)-W end E/W strip being extended 900'; S end N/S strip 1000'; SE end NW/SE strip 800'. These extensions are under const and unsafe. (6-14)
TAYLORCRAFT ARPT (ALLIANCE)-No radio. Left traffic 800' pattern. Student train. and test flying. Land acrdg to wind tee atop NE corner of hangar. Use rnwys only. Unlgtd bldgs entire S bndry fld. Trans pilots must register in Opers Office upon arvl and dptr. (8-23)
TWIN CITIES ARPT (GALLIPOLIS)-Use in emerg only. Cattle on fld. (7-3)
WARD ARPT (BEDFORD)-NE/SW, NW/SE strips rough. (7-3)
WILLARD ARPT-Avoid center section of N/S strip (soft). (6-19)
WILMINGTON-Exper Flying is being conducted within the following described area: beginning at lat. 39-41, long. 83-01-30; S to lat. 38-48-40, long. 83-02-30; NW to lat. 39-11-20; long. 84-00; N to lat. 39-42-10, long. 84-00; E to point of beginning. This area should be avoided at all times.
WRIGHT FLD (DAYTON)-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON AUTHORIZED OFF. BUS. THIS STN OR IN EMERG AND TO ALL TRANS NAVAL ACFT. ALL OTHER ARMY ACFT AND TRANS NAVAL ACFT USE PATTERSON FLD. No svcg 2400 to 0730. Sod area closed. Rnwy, taxiway shoulders soft. Exten exper and train. flights
WYNKOOP ARPK (MT. VERNON)-Under const. (6-20)
YOUNGSTOWN ARPT-Use rnwys only. Equip. on fld. (6-22)
ZANESVILLE ARPT-Use rnwys, taxi strips only-newly seeded areas. Tetrahedron ngts on req only. Rnwy in use lgtd continously. (6-20)

OKLAHOMA

ALTUS MUN. ARPT-Avail. only for delivery surplus mil acft or in emerg. Equip on and near N/S rnwy. (12-13)
ARDMORE ARPT-Being used by AA. Avail. trans acft in emerg only. No fuel or svcg avail. trans acft-use Ardmore Arpt, Site 10, FV-WD. Inten ctc and inst train. in progress. (9-13)
BETHANY ARPT (OKLAHOMA CITY)-Use rnwys only. (6-6)
CHICKASHA FLD-CLOSED - under supervision Defense Plant Corp. (8-4)
CIMARRON FLD (YUKON)-Now a WAA Sales and Sto Center. No svcg, repairs or overngt sto. Planes parked on fld. 4 strips indicated by pylons and mrkrs. Lime mrkings center of each strip. (5-25)
ENID AAF-RADIO: Army range unreliable. (10-4) FLD: Ltd parkings facs. Use rnwys, taxiways only. (5-8)
GARTHORENER COUNTRY CLUB (OKLAHOMA CITY)-Only N/S, NW/SE strips avail.
GREAT SALT PLAINS BOMBING RANGE (JET)-Trans acft land at Enid AAF for permission to use this fld. (6-10)
GUTHRIE INT, SITE 21, FV-WD-Const. Equip. on fld. Temp N/S strip avail. during const period. Bndry lgts to be decomm soon. Green course lgts changed to red. (5-21)
HATBOX FLD-MUSKOGEE ARPT (MUSKOGEE)-Use rnwys only - parked acft.
LAWTON ARPT-Obst lgts inop. Bndry, flood lgts on req. (7-24)
LOWELL FLD (CHICKASHA)-CLOSED (no facs). (10-7)
MAX WESTHEIMER FLD (NORMAN)-Avail all acft up to 30,000 lbs, days only. Left traffic pattern; lgt acft 800', heavy acft 1000'. Lcl traffic avoid flying over bldgs on N Campus. All traffic avoid flying over corp. limits of Norman unless having vertical clearance of 2000' or more.(7-13)
**MIAMI COMMERCIAL ARPT (MIAMI)-ABANDONED. (10-5)
MUN. ARPT (BOISE CITY)-Emerg use only. (5-11)
NEWKIRK SKYPARK-NW/SE strip under const. (8-3)
NUCKOLS FLD (OKLAHOMA CITY)-Use rnwys only. (1-14)
PERRY ARPT-Trans mil acft land at Enid AAF for permission to use this fld.
PONCA CITY ARPT-Obst lgts atop 175' twr 1 mi S inop. (8-27)
POST FLD (LAWTON)-Closed to all except liaison type acft. Ext const. Equip on entire W half and NW portion fld. Closed ngts. Flash. bcn atop balloon hangar inop. Soft spots. Const on rnwys. (6-14)
ROOSEVELT-RADIO: VHF range will be comm soon at lat 34-52-00, long. 99-03-48. Freq. 108.7 mcs. Ident "RQ" (. - . - - . -). Visual courses: 53°, 233°; aural courses: 143°, 323°. (9-24)
SHAWNEE ARPT-Use rnwys, taxi strips only. (4-20)
TINKER FLD (OKLAHOMA CITY)-RADIO: AACS, gnd to air stn now operating on 137.88, 116.1, 140.58 mcs from 0630 to 1730 for testing purposes. (10-10) Army range reported unreliable for orientation and homing. Army DF stn temp inop. FLD: Obsts on sodded areas S of NE/SW rnwy. Equip. on Airdrome. (4-25)
TULSA-RADIO: Range flight-checked Oct 3, courses correctly aligned.
TULSA ARPT-Pilots without radio watch twr lctd SE corner fld for lgt signals. Helicopter area parking ramp mrkd with yellow and white circles with red "H" in center. Use rnwys, taxi strips only. 73, 100 oct avail. Crash and fire fighting equip. 0800 to 1700 Mon thru Fri only. (9-25)
WILL ROGERS FLD (OKLAHOMA CITY)-Ditch at approach end Rnwys 30, 35, lgtd.
WOODRING FLD (ENID)-Use rnwys only. (8-5)

OREGON

BAKER ARPT-Use rnwys only. Equip. on fld days. Erecting 25' unlgtd bldgs adj to and outside bndry lgts-700' E of N/S, 700' S of E/W rnwys. (9-14)
EUGENE-RADIO: All courses have multiples. (7-30)
EUGENE ARPK-N/S rnwy closed, to be used as taxiway only. (9-13)
GRANTS PASS ARPT-Ctn when wet. Traffic lands to N, takes off to S-steep grade. (6-50
MADRAS ARPT-Closed to all civil. flying. Acft landing this fld may be detained. (10-8)

OREGON-Continued

**MAHLON SWEET ARPT (EUGENE)-Lclzr antenna shelter and glide path bldg with 25' mast, obst lgtd, (10-6) Equip. on fld. Use rnwys only. (10-6)
MEDFORD-RADIO: All courses have multiples.
**MEDFORD ARPK-ABANDONED. (9-30)
MEDFORD AAF-RADIO: CW freqs of AACS, gnd to air stn, temp inop. (9-6) FLD: Use rnwys, taxi strips only. Tetrahedron controllable from twr until wind reaches velocity of 10 mph. No bndry or flood lgts. (10-5)
PENDLETON-RADIO: All courses have multiples with signals fades and surges.
**PENDLETON ARPT-24" rot clear, bcn with green code bcn, flash char "PE" range, ctc, obst lgts. (10-8)
PORTLAND-RADIO: Stevenson, Wash. FM comm delayed indefinitely. (7-4)
PORTLAND AAB-RADIO: AACS, gnd to air stn voice freq 140.58 inop until approx Oct. 15. FLD: East N/S rnwy avail. taxiing only. Flash. lgts on tetrahedron indicates suspension CFR flights. 100 oct, ltd 73 oct avail. Ltd JP-1 fuel avail. (8-10)
ROSEBURG INT, SITE 41A, SR-SA-Unlgtd 100' pole 1200' S, 300' E of S bndry.
THE DALLES-RADIO: All courses have multiples with signal fades and surges.
TROUTDALE AIRPORT-Surplus Acft Sales Center - parked acft.

PENNSYLVANIA

ALBERT ARPT (PHILIPSBURG)-Const S end N/S strip. (5-31)
ALLENTOWN-BETHLEHEM ARPT (ALLENTOWN)-Areas off rnwys soft in wet weather. Floodlgts Rnwys 9, 14, 18 inop. (5-18)
ALTOONA-BLAIR CO. ARPT, SITE 24A, CO-PG-Use rnwys only. (8-13)
BARRETT ARPT (CANADENSIS)-CLOSED (const). (6-11)
BEAVER FALLS ARPT-Patterson Heights Arpt, 1.5 mi S Beaver Falls is not under const., entirely avail. New fld, Beaver Falls Arpt, closed (under const and soft)(3-30)
BLOOMSBURG ARPT-Temp too soft for use (recent floods). (6-1)
BUTLER-ALAMEDA ARPT (BUTLER)-Pilots avoid hospital area adj arpt. Use right traffic pattern on W take-off. (7-9)
CARLISLE ARPT-NW/SE strip under const. Use ENE/WSW strip only. (6-11)
CECIL-RADIO: Visual and aural VHF signals reported in Vcnty of Imperial, Pa. (7-17)
CHAMBERSBURG-High explosives being discharged approx 7 mi NW thru Feb. 5, 1947, daily Mon thru Sat 0800 to 1700 within the following area: N bndry lat. 40-01; S Lat. 39-59-30; E long. 77-47; W long. 77-49. (8-3).
CHEMUNG VALLEY ARPT (ATHENS)-500' extension E end E/W strip under const. (5-31)
CUB HAVEN ARPT (LOCK HAVEN)-Use rnwys only. (8-13)
DALEVILLE ARPT-Use right traffic pattern on E take off. (8-22)
EAST SCRANTON ARPT (SCRANTON)-Emerg use only. (5-28)
GREATER PITTSBURGH ARPT (PITTSBURGH)-Use rnwys only-shoulders soft. CFR plans only. Ltd Army facs. No 91 oct. No sto. Rnwy 32, first 500' of Rnwys 23, 27 closed. Equip. on fld. (9-24)
HARRISBURG STATE ARPT (HARRISBURG)-Use rnwys only. Do not use lock-wheel turns at ends of rnwys. (6-28)
JOHNSTOWN ARPT-Use rnwys only. (7-1)
JOHNSVILLE ARPT-RADIO: Navy twr temp inop on Sun. (4-26)
KAISER FLD (BRISTOL)-Rnwy shoulders soft, unsafe for heavy acft during wet weather. Use rnwys only. (5-27)
LANCASTER ARPT-Drain-pipe on both sides NW/SE strip, mrkd, stay between red flags. Sinkhole extreme E end E/W strip; 2 holes S end N/S strip, mrkd. (6-27)
MILLBROOK-RADIO: VHF range temp. shut down. (5-10)
MT. POCONO ARPT-SITE 21, BUFFALO-NEW YORK-Shoulders NE/SW rnwy rough, not graded. Hazardous ruts along S side NW/SE rnwy. Use rnwys only. (5-22)

PENNSYLVANIA-Continued

MOUNT UNION ARPT-Use strips, taxiways only. Use rnwys only in wet weather - strips unsafe (rough). (6-28)
MUSTIN FLD NAAS (PHILADELPHIA)-Avail. ngts to pilots familiar with fld and surrounding obsts. Others and pilots of transport planes over 9000 lbs use Philadelphia Southwest Arpt for hgt landings and take-offs. Closed to acft 50,000 lbs or over. Left traffic pattern at 1000'. (8-5)
OLMSTED FLD (MIDDLETOWN)-Ngt landings hazardous. Obsts adj fld. 81' high tension wires across approach zones Rnwys 29, 14. Lgtd obsts between Rnwys 29, 32, approx 1000' from rnwys. Two 150' obsts right of Rnwy 29, lgtd. Ridges to WSW, ENE 300 to 700' higher than fld. Closed to B-29 opers. (4-10)
PARKER CRAMER ARPT (CLARION)-CLOSED (const). (5-24)
PHILADELPHIA NORTHEAST ARPT (PHILADELPHIA)-Avail radio-equipped acft. Use rnwys only. Equip on fld intmtly days. (8-16)
PHILADELPHIA SOUTHWEST ARPT (PHILADELPHIA)-RADIO: Lclzr of CAA ILS which was operating on 109.9 mcs for test purposes only. is now temp inop. (10-14) FLD: Closed to non-radio-equipped acft except in emerg. Const on fld. Use rnwys only. Use oth in taxiing. (10-8)
PHILIPSBURG-RADIO: Courses aligned by gnd check only. (10-7)
PITTSBURGH-RADIO: DF stn temp inop. (10-23)
PITTSBURGH-ALLEGHENY CO. ARPT (PITTSBURGH)-Army acft use in emerg only or on written orders. Use Greater Pittsburgh Arpt. Outgoing AAF flights clear thru AAF Flight Service. N/S rnwy closed. Equip. on fld, mrkd. Closed to non-radio equipped acft. (7-18)
PITTSBURGH-HETTIS ARPT (PITTSBURGH)-Right traffic on NE and NW rnwys. (6-4)
PITTSBURGH-BUTLER ARPT (BUTLER)-Land in accordance with wind tee. Wind cone atop hangar for wind direction only. (7-24)
PUNXSUTAWNEY ARPT-WNW end ESE/WNW strip closed. (8-5)
READING ARPT-RADIO: CAA ILS comm Oct 9 on Rnwy 36 on exper basis. Lclzr on 109.5 mcs. Not flight-checked. FLD: Ridges S and E within 4 mi of fld up to 1200' MSL. Equip. on fld days. Right traffic pattern on Rnwys 13 and 18. (6-11)
VALLEY FORGE ARPT (NORRISTOWN)-E/W, NE/SW strips avail. NW/SE under const. On take-offs to and landings from E or NE use right traffic temp; on W or SW use left traffic. (5-29)
VANDERGRIFT ARPT-Being repaired - use only center of strips. (4-25)
WILKES-BARRE-WYOMING VALLEY ARPT (WILKES BARRE)-Use rnwys only. Closed ngts - all lgts inop. (8-2)
WILLIAMSPORT ARPT-Closed ngts. Avail. emerg landings only. (10-4)
WILLOW GROVE NAS-Closed ngts. Equip. sides all rnwys days-lgts being installed. IFR inbound flights will be accepted daylgt hrs but no IFR outbound flights may be made. (9-16)
WINGS FLD (AMBLER)-NW/SE rnwy unusable (plowed up). Hangar const S side fld. Fld being graded, mrkd days. (9-14)

RHODE ISLAND

CHARLESTOWN NAAS-Const. Low alt formation break-up. Use ctn below 1000' alts Equip. on Rnwy 4-22.

GREENE, THEODORE FRANCIS, AIRPORT (PROVIDENCE)-Use rnwys only. Turf channels avail. local instruction purposes only. (5-23)

SOUTH CAROLINA

CHARLESTON ARPT-Lgtd bldg under const in sodded area between NW/SE rnwy and taxi strip 1500' S on NE end Rnwy and 325' from edge. 10' antenna shelter 45' long being erected on center line 1200' from SE end NW/SE rnwy, mrkd. Use rnwys only. Army temp inactive-civil. facs. (9-23).

CLARK FLD (CHARLESTON)-Strips rough. (4-19)

FLORENCE ARPT-Closed sunset to sunrise (bcn, rnwy, obst lgts inop). (7-12)

GEORGETOWN CO. ARPT (GEORGETOWN)-Equip. on rnwy shoulders. Bcn inop. (3-10)

GREENVILLE ARPT-Bndry lgts E, SE fld inop. (9-24)

★GREENVILLE AAB-RADIO: AACS, ground to air stn transmits and receives on 116.1,137.88,140.58 mcs. (10-4) FLD: Only 73,100 oct. Wind tee rmvd. Tetrahedron lgts inop. Non-radio equipped acft watch twr for landing instructions. (10-3)

••LEXINGTON CO. ARPT (COLUMBIA)-Rot. bcn, ctc lgts oper dusk to dawn. (9-27). Army temp inactive-no facs.

MEMORIAL ARPT (SPARTANBURG)-Use rnwys, taxi strips only. Ctc lgts inop.(7-19)

MYRTLE BEACH AAF-Inst train. at 1000 to 5000' alts 50 mi radius during IFR. (6-19)

NORTH AIRPORT-Temp inactive-no facs. (See Special Notice re use).

OWENS FLD (COLUMBIA)-RADIO: Soon, DT fac of CAA range will be relctd at Lexington Co. Arpt. (10-8) FLD: Use rnwys only. Req pilots avoid pivoting acft on NW end NW/SE rnwy. Small acft parked on ramp front Admin Bldg, mkd. (8-14)

PARRIS ISLAND MCAS-Use in emerg only (caretaker status-no facs).

WOODWARD FLD (CAMDEN)-RFC planes parked entire fld off rnwys. Use rnwys, taxi strips only. No facs for closing flight plans other than tlfo. Flight plans should be closed by radio with Shaw Fld twr before landing. Closed ngts. (1-10).

SOUTH DAKOTA

ANDERSON ARPT (MITCHELL)-Use strips only. (5-7)

BELLE FOURCHE ARPT-SE end NW/SE strip rough. Avoid S end N/S strip beyond intersection of E/W strip. Loose gravel around new hangars and taxi strip leading to NW/SE strip. All strips soft when wet. (8-5)

BIEDENFELT FLD (FAULKTON)-Hay stacks on fld.

BROOKINGS ARPT-Use strips only-fld soft in wet weather. (8-5)

PIERRE AIRPORT-Tetrahedron unreliable. (6-18)

PLATTE ARPT-Use strips only.

RAPID CITY-RADIO: Unusual multiple on range courses. (10-10)

RAPID CITY AAB-RADIO: Army ILS temp suspended. AACS, ground to air stn inop on all freqs. (6-10) FLD: No svcg or opers 1900 to 0700 daily. (10-9)

SIOUX FALLS ARPT-Use rnwys only. Tetrahedron rmvd. (9-2)

WATERTOWN COMMERCIAL ARPT-Use in emerg only-no facs. (9-11)

W. W. HOWES ARPT (HURON)-Closed to all acft exceeding 25,500 lbs. Blinding 30 million candle pwr ceilometer 1000' NW bcn. (9-27).

TENNESSEE

BERRY FLD (NASHVILLE)-Use rnwys only-rnwy, taxiway shoulders soft. Neon approach sys NW end Rnwy 15-33 completed. Sys being installed S end Rnwy 2L-20R days. (9-11)

CHATTANOOGA ARPT-LOVELL FLD (CHATTANOOGA)-Intmt dynamiting in stone quarry N bndry fld days. Avoid flying over quarry. (9-25)

CORNELIA FORT AIRPARK (NASHVILLE)-Landings and take-offs to S use left hand traffic, to N right hand traffic. (7-24)

TENNESSEE-Continued

CUMBERLAND FIELD (NASHVILLE)-Strips under const. (1-26)

EMBRY RIDDLE FIELD (UNION CITY)-Use rnwys only-parked acft.

KNOXVILLE-RADIO: Heavy multiples E course.

KNOXVILLE-McGHEE TYSON ARPT (KNOXVILLE)-S taxi strip closed. No parking on ramp front of Admin Bldg any time day or ngt. Army acft rstd from refueling except in extreme emerg. Unlgtd parked acft on parking area and edge of ramp NE of Admin Bldg. (10-3)

LEBANON AIRPORT-Soft spots in E/W and NE/SW strips near intersection; avoid using after heavy rains and thaws. (11-26)

McKELLAR AIRPORT (JACKSON)-Use rnwys only-parked acft.

★MEMPHIS ARPT-RADIO: AACS, ground to air stn now operates on 140.58,116.1, 137.88 mcs also. (10-4). FLD: Fld badly eroded. Use rnwys only-shoulders soft. Equip. on fld. Avail. private acft equipped with fully operating 2-way radio transmitting on one of the following freqs: 3105,4495,6210 kcs. Other acft may land by obtaining previous authorization from CAA inspector. Student instruction in private acft not permitted. Neon approach lgts inop-being relctd. (9-14).

MEMPHIS NAS-CLOSED NGTS EXCEPT IN EMERG. Flight plans should be addressed to "MEMPHIS NAVY". Ngt flying in 5 mi radius up to 2500'. Exten flight opers in 15 mi radius. Traffic left at 1000'. Resurfacing Rnwys, mats. Red rot. bcn indicates IFR. (8-6).

NASHVILLE-RADIO: FM will be comm soon at Mt. Juliet, Tenn. at lat 36-12-00, long. 86-28-35, located 9.6 mi from range stn. Ident. will be one dash (-) Bear. and dist, range stn to FM will be: 66°, 9.6 mi. (10-9)

••PARSONS, BEACON SITE 56, DL-LV-Site will not be discont and relctd as previously advertised. (10-8)

SMITHVILLE-RADIO: Severe multiples E and W courses. (10-5)

SMYRNA AAF (NASHVILLE)-RADIO: Army ILS temp inop. (6-25). AACS, ground to air stn and DF facs on 4765, 4890 kcs, voice, 2796,5200 kcs CW temp inop. (5-31). FLD: NW/SE rnwy lgts inop. (9-17)

TRI-CITY ARPT-RADIO: Oct 5, CAA twr comm, operating 0800 to 2100. Lgt gun only. FLD: Army acft rstd from refueling except in extreme emerg. (9-9)

••WHITEVILLE INT, SITE 49, DL-LV-200' antenna Rdo Stn WENC, 1.5 mi S, obst lgtd. (9-29)

TEXAS

ABILENE AIR TERMINAL (ABILENE)-E/W rnwy avail. only on permission of control twr. (9-3).

ABILENE AAF-Temp inactive-no facs. (See Special Notice re use).

AMARILLO AAF-RADIO: AACS, ground to air stn temp inop. (6-25)

ARLEDGE FLD-MAIN AIRDROME (STAMFORD)-Use rnwys only-parked acft. Sod soft after rain. Wind tee removed. Wind socks on N and S hangars. (6-3)

ARLINGTON (MIDWAY) ARPT-All rnwy lgts inop. NE/SW rnwy unsafe; NW/SE rnwy usable with ctn. (4-18)

ASHERTON ARPT-High brush-use strips with ctn. (6-11)

AUSTIN-RADIO: Range flight-checked, courses correctly aligned, break in stn location marker light pattern. (5-23)

AUSTWELL INT, SITE 5A, CR-HU-Unsafe (soft). (9-23)

BERGSTROM FLD (AUSTIN)-RADIO: Army ILS temp inop. (10-2). FLD: Rnwys NE/SW, 8-26 closed. (10-1)

BIGGS FIELD (EL PASO)-RADIO: Army ILS (CAA type) temp inop. (5-16). FLD: Const on rnwys. Army acft with destination White Sands Proving Grounds clear thru Biggs Fld. Dirt landing strip at old fld closed for resurfacing. Five 90' towers under construction 2000' E of N/S rnwy, lgtd. (9-27)

BIGGS FLD (EL PASO)-See notice under White Sands Proving Ground, N.Mex.
BROWNSVILLE-RADIO: Range flight-checked Oct. 2, courses correctly aligned. 3105,3117.5,4495,6210 kc receivers unreliable. 116.1 mc. transmitter and receiver temp inop. (9-23)
**BROWNWOOD MUNICIPAL ARPT-No Army opers. (10-7)
BRUCE FLD (BALLINGER)-Use rnwys only - parked acft.
BRYAN AAF-Temp inactive. No facs. (See Special Notice re use).
CAMP HOOD LANDING FLD (KILLEEN)-CLOSED EXCEPT ON OFF. BUS. THIS STA OR IN EMERG. AAF oper facs avail. Ngt opers on previous arrangements. Right traffic to N, left to S overhead approach. E/W rnwy closed. (6-28)
CARTHAGE AIR SERVICE ARPT (CARTHAGE)-E/W strip under const. (5-28)
CHILDRESS-RADIO: Sept. 24, VHF range on exper status only comm and flight checked for cont oper at lat 34-22-12, long. 100-17-12, lctd approx 5-1/2 mi SW of Childress Freq. 109.1 mcs. Ident. "CM" (- . - - . - -) Visual courses: 53°, 233°; aural courses: 323°, 143°. (7-25)
CHILDRESS AAF-Temp inactive. No facs. (See Special Notice re use)
CLEVELAND-RADIO: VHF range operating on exper basis, at lat 30-15-36, long. 94-58-00. Freq 109.1 mcs. Ident. "CL" (- . - . . - . .) Visual courses: 15°, 195°, aural courses: 105°, 285°.
CLIFF MAUS FLD (CORPUS CHRISTI)-Use rnwys only during wet weather. (9-12)
COLORADO CITY-RADIO: FM on E course of Big Spring range will be decomm. Oct.17
CONROE ARPT-Use in emerg only - no facs.
CORPUS CHRISTI-RADIO: 116.1 mc transmitter and receiver temp inop. (10-1). Range flight-checked Oct 3, courses correctly aligned.
CORSICANA ARPT, mun.-UNUSABLE. Acft parked entire fld. (2-6)
COK AAF (PARIS)-Temp inactive. No facs. (See Special Notice re use)
CUERO ARPT-In wet weather land as near the ramp as possible. Use ramp only in emerg. Center portion fld soft in wet weather. No svcg or lgts. Landings should be made within orange cone bndrys. Use strips only - parked acft.
ELDORADO ARPT-E/W strip soft in wet weather. (12-11)
ELLINGTON FLD (HOUSTON)-Closed to VHB acft except in emerg. Temp inactive-no facs. (See Special Notice re use)
EL PASO MUN. AIRPORT-ED ANDERSON FLD (EL PASO)-RADIO: On or about Dec.1 ILS (CAA type) will be comm, serving NE/SW rnwy with approach from NE. Lclzr lctd 1700' SW of SW end of NE/SW rnwy, freq. 109.5 mcs. Ident. "EO" Glide path 1000' SW of NE end of NE/SW rnwy and 400' SE of rnwy centerline, freq. 332.6 mcs. Two marker bcns: Middle, 3556' NE of NE end of NE/SW rnwy on extended centerline with modulation freq 1300 CPS keyed alternate dots and dashes; outer, 4.56 mi. NE of NE end of NE/SW rnwy on extended centerline with modulation freq 400 CPS keyed two dashes per second. Mag heading for landing: 217° (9-27); FLD: Const 400' to left and 1000 from the approach end Rnwy 22 (5-17)
ENGLISH FLD (AMARILLO)-RADIO: AACS, ground to air stn oper temp suspended. (2-5) FLD: Use rnwys, taxi strips only Army temp inactive - civil facs. (7-26)
**FABENS ARPT-ABANDONED (10-2)
FALFURRIAS-RADIO: FM on S course of Alice range will be decomm Oct. 31
FORNEY-RADIO: FM on E course of Dallas range inop. (10-2)
FORT WORTH AAF-RADIO: AACS, ground to air stn temp inop. (7-25) FLD: Rnwys 3-21 and E/W closed. 40' trees immediate end Rnwy 35L (9-16)
GAINESVILLE AAF-Use rnwys only. (8-10)
GASKIN FLD (SHERMAN)-Use rnwys only
GIBBS FLD (FORT STOCKTON)-Use rnwys only-parked acft. Use only in emerg
GILCHRIST ARPT (WICHITA FALLS)-Strips soft when wet. Pumping well approx 500' from NW end NW/SE strip Use strips only. (5-22)
GOODFELLOW FLD (SAN ANGELO)-Use rnwys only Ctc Goodfellow Radio 15 mi. out in IFR weather Acft flying N or E on range maintain odd 1000' alts. Acft flying W or S maintain even 1000' alts unless otherwise advised by Goodfellow Radio Local inst acft using range. Ltd parking, svcg facs Inten primary train. Mon thru Fri; trans acft will normally use right traffic (4-24)

★GRANBURY-RADIO: Range and stn location mrkr decomm. Oct 10.
GRAND PRAIRIE OLF-CLOSED TO ALL TRANS ACFT EXCEPT PTs Ngt train.within gliding range from sunset to midnight at alts to 2000' above terrain (7-1)
GUTHRIE-RADIO: On or about Nov 15, VHF range will be comm at lat 33-46-30, long. 100-20-09 Freq. 108.3 mcs Ident "UH" Visual courses: 72°, 252°; aural courses: 162°, 342°. (9-26)
HEARNE BCN SITE, 15, GS-WC-Bcn inop. (5-16)
HENSLEY FLD (DALLAS)-Lgt acft operating at 500' pattern alts. (7-31)
HICKS FLD (FT. WORTH)-Use strips only-parked acft. (4-25)
HITCHCOCK NAF-LTA-RADIO: 6390 kcs transmitter and receiver temp inop. (3-12)
HOLMAN ARPT (WICHITA FALLS)-Use strips only. Ctc Wichita Falls Radio for ngt landings. (5-12)
HOUSTON-RADIO: Range flight-checked Oct. 5, courses correctly aligned.
HOUSTON ARPT-Use rnwys, taxi strips-ditches parallel E/W, N/S, NW/SE rnwys and N/S taxi strip. Equip. on fld. (8-12)
JEFFERSON CO. ARPT (BEAUMONT)-Closed to trans acft except in extreme emerg. Const equip. on fld. No facs. (6-18)
JUNCTION-RADIO: On or about Dec 1, VHF range will be comm at lat 30-38-00, long. 99-58-43. Freq. 108.7 mcs. Ident. "JT". Visual courses: 128°, 308°; aural courses: 38°, 218°. (9-27)
KELLY FLD (SAN ANTONIO)-Acft on fld. Use rnwys only. 190' lgtd twr const W Rnwy 14-32. (9-17)
LAMESA FLD-Gov't owned acft parked W half fld. Use rnwys only. (6-6)
LAREDO AAF-Temp inactive-no facs. (See Special Notice re use)
LAUGHLIN FLD (DEL RIO)-Temp inactive. No facs. (See Special Notice re use)
LONE OAK, BEACON SITE 5, DL-LV-Temp discont. (9-18)
LOVE FLD (DALLAS)-RADIO: ILS lclzr ground-checked only. (10-12)Soon, glide path will be comm on CAA ILS. Transmitter will be located 1100' SE of NW end of NW/SE rnwy and 400' right of rnwy centerline approaching from NW. Freq will be 335 mcs. Glide path angle: 2-1/2°. (8-19) FLD: Rnwy 4-22 closed. Soft areas along taxi strips when wet. 30 million candlepwr ceilometer projector 1000' N of control twr. (9-13)
LUBBOCK AAF-Temp inactive. No facs. (See Special Notice re use).
MARFA AAF-Temp inactive. No facs. (See Special Notice re use)
MATAGORDA ISLAND BOMBING AND GUNNERY RANGE (MATAGORDA ISLAND)-Temp inactive. No facs. (See Special Notice re use).
MEACHAM FLD (FT WORTH)-RADIO: CAA ILS will be comm soon serving N/S rnwy with approach toward S. Mag heading for landing: 173°. Voice-equipped localizer will operate on 109.9 mcs. Glide path on 333.8 mcs. Two marker beacons: Outer marker 4.09 mi N of N end N/S rnwy, keyed 2 dashes per sec; middle marker 0.7 mi N of N end N/S rnwy, keyed with alternate dots and dashes. (10.8) FLD: In wet weather use rnwys, taxi strips only. Obst lgts atop 125' smokestack 1/4 mi E inop. (4-10)
MIDLAND ARPT NO. 2-Crash, fire fighting equip. avail. 0800 to 1900 only. (9-16)
MIDLAND AAF-Temp inactive. No facs. (See Special Notice re use).
**MINERAL WELLS ARPT-1-1/10 mi SE, ABANDONED. (10-2)
MINERAL WELLS ARPT,new-Use rnwys, taxi strips only,graded areas unsafe.(7-15)
ORANGE ARPT-NE/SW, NW/SE strips under const. Use only E-W strip. Fld flooded after rains. (7-10)
PALESTINE ARPT-Sod areas usable in dry weather. Circle fld for lgts. (4-8)
PAMPA ARPT-Erecting 20' bldg 500' S of E/W strip and 200' W of N/S strip, mrkd. (11-9)

TEXAS-Continued

PAMPA AAF-Temp inactive. No facs. (See Special Notice re use)
PERRIN FLD (SHERMAN)-Rnwy 3-21 closed. Acft parked S edge fld. (8-20)
PYOTE AAF-Rnwys 18-36, 7-25 closed. Ltd svcg, maintenance. (6-18)
RANDOLPH FLD (SAN ANTONIO)-Trans acft use E side fld. (5-16)
RICH FLD (WACO)-Use strips only-muddy. Small ditch S end N/S strip (repairs on rng lgts). (3-22)
**RIO GRANDE VALLEY INTERNATIONAL ARPT (BROWNSVILLE)-RADIO: CAA twr temp inop pending rclctn. (10-14) FLD: Green crs lgt used with appch lgt lane sys-temp. Lctd 100' N of rnwy 17L. (10-10). Rnwy 4-22 closed. Use rnwys, taxi strips only. Bldg 300' E, 700' S of N end Rnwy 17-35, lgtd. Civil. acft may be cleared thru this arpt for foreign flights. Army acft use Kelly Fld. Portable control twr 40' SW base of old twr. Obst lgts atop 90' antenna poles 3 mi N inop. (10-9)
ROBERT MUELLER ARPT (AUSTIN)-Acft landing or taking off on Rnwy 34R use right traffic pattern. Acft landing or taking off on other rnwys use left traffic pattern. Rnwy 12L-30R closed. Blinding 30 million candle pwr ceilometer 900' N of Admin. Bldg. (10-14)
ROCKPORT ARPT-Clsd except in emerg. Fire and crash equip removed. (8-1)
**SAGINAW ARPT-New fld. Lat 32-51-45, long. 97-22-30. See page 97.
SALTILLO, BEACON SITE 9, DL-LV-Temp discont. (9-18)
SAN ANGELO ARPT-RADIO: Mun. twr comm Oct 4. Oper 1200 to 1 hr after off. sunset. Lgt gun oper only.
SAN ANTONIO-Cloud flying on Randolph Fld Radio Range at lats assigned by San Antonio ATC. Acft inbound to Randolph Fld or operating in that vicinity under IFR contact Randolph, Alamo or San Antonio Range Stn and adhere to instructions issued by San Antonio ATC. Acft outbound from Randolph Fld adhere to instructions issued through Randolph Tower.
SAN ANTONIO-RADIO: Flight checked Oct. 8. Courses correctly aligned.
SAN ANTONIO ARPT-ALAMO FLD (SAN ANTONIO)-RADIO: On or about Nov. 1, ILS (CAA type) will be comm. Lclzr will operate on 109.9 mcs, lctd 1300' NE of NE end of NE/SW rnwy. Ident. "JK". Glide path on 333.8 mcs, lctd 750' NE of SW end of NE/SW rnwy and 450' SE of rnwy centerline. Two marker bcns: middle-3065' SW of SW end of NE/SW rnwy on extended centerline with modulation freq 1300 CPS keyed alternate dots and dashes. Outer-4.39 mi. SW of SW end of NE/SW rnwy on extended centerline with modulation freq 400 CPS keyed two dashes per second. Mag. heading for landing: 30°. (10-7) FLD: Ltd svcg. Closed ngts to civil. acft except scheduled airlines. Equip. S end N/S and NW end NE/SW rnwys. Ditch this area. (7-3)
SAN BENITO INT, SITE 2, JI-FV-Hangar under const 200' NE bcn twr and 200' N Opers Office, mrkd. N and W bndry lgts inop. (9-26)
SAN MARCOS AAF-Caution - helicopter and liaison pilot training. (6-12)
SHEPPARD/KELL MUN. ARPT (WICHITA FALLS)-RADIO: Army twr to be decomm soon. (10-4) FLD: N/S rnwy W of fld rstd to acft 200 hp or less. Use rnwys only. Army temp inactive-civil facs. (9-23)
SOUTH PLAINS AAF (LUBBOCK)-Part of rnwy not visible from control twr due to parked acft. Stn storage acft received only between 0800 and 1630 Mon thru Fri. Soft spot approx 1500' S of N/S rnwy. Ltd transportation, no housing, messing facs. Svcg opers avail. 0800 to 1630 Mon thru Fri only. (9-20)
STINSON FLD (SAN ANTONIO)-Right traffic Rnwys 9, 14, 17, 22. Left traffic on all other rnwys. Traffic 800' above terrain 1367' MSL. Avail. days only. (9-21)
TAYLOR ARPT (ALBANY)-CLOSED (rnwy const) (4-4)
TERRELL, BEACON SITE 6, FV-AG-Temp discont. (9-18)
TEXARKANA-Demolition operations are being conducted approx 15 mi WSW Texarkana Arpt, 0800-1615 daily except Sat and Sun. All acft cautioned to fly above 1500' over this area.
TYLER-RADIO: About Oct. 20, range freq. will be changed to 320 kcs. (10-2)

TEXAS-Continued

UNIVERSITY ARPT (AUSTIN)-Temp closed-no svc facs. (9-10)
VICTORY FLD (VERNON)-Use rnwys only (parked acft). Avail. days only. (6-3)
WHITE FLD (BRADY)-CLOSED. (8-7)

UTAH

BRYCE CANYON-RADIO: 116.1 mc transmitter and receiver, 129.7, 131.7 mc. receiver and 111.1 mc transmitter temp inop. (10-2)
DELTA ARPT-Use rnwys only. (6-22)
DUGWAY FLD (TOOELE)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG.
ENTERPRISE INT, SITE 39, LA-SL-Closed to lgt acft (rough). N 600' N/S strip closed. 25' unlgtd bldg under const adj fld 90' N of S/E corner (10-4)
HANKSVILLE-RADIO: Stn unmanned from 2200 to 0600.
HANKSVILLE INT, SITE 54, LA-DV-N/S strip unlgtd. (6-17)
HILL FLD (OGDEN)-RADIO: CW facs of AACS, ground to air stn, temp suspended. (5-26) Army DF (HF) stn oper temp suspended. (3-18)
MILFORD ARPT, SITE 45, LA-SL-Installation of obst lgts on bldgs SE corner fld S of and adj to bcn twr incomplete. (5-22)
PROVO ARPT-Soft shoulders. Fld lgts avail. on req. (7-18)
ST. GEORGE INT, SITE 36, LA-DV-Equip. along edges of strips. (6-13)
SALT LAKE AIRPORT NO. 2 (SALT LAKE CITY)-Use rnwys, taxiways only, shoulders soft. (6-5)
SALT LAKE CITY-RADIO: Auto. range monitor, sys on N course temp inop. Temp remote monitor. sys which provides cont aural and visual monitor. at control stn recomm on N course. Warning signal not avail. (5-3)
**SALT LAKE CITY AIRPORT NO. 1-RADIO: About Oct. 26, CAA ILS will be comm, serving N/S rnwy with approach from S Localizer transmitter located 1000' N of N end N/S rnwy on centerline, freq 110.3 mcs. Glide path transmitter located 750' N of S end N/S rnwy, 800' W of centerline, freq. 335 mcs. Two marker beacons: Middle, 3730' S of S end N/S rnwy, keyed with alternate dots and dashes; outer, 4.69 mi. S of S end N/S rnwy, keyed two dashes per sec. Sys will operate cont. (10-7) FLD: Approach lgtg sys on series of 13 poles 30 to 60' tall with obst lgt on pole fifth in series from S end, erected in line with N/S rnwy, beginning 300' S of bndry. (9-27) Prevailing wind rnwy lgts operating ngts. Use rnwys-shoulders soft. Equip. ahead of rnwys 31 and 34. (9-11)
WENDOVER-Ground firing up to 45,000' MSL is being conducted approx 60 mi E, in the Low Flight Strip area, from 0800 to 1800. See chart 23.
WENDOVER FLD-RADIO: 126.18 mc transmitter and receiver of Army twr temp inop. (7-12) FLD: CLOSED TO ALL TRANS ACFT EXCEPT ON OFF. BUS OR IN EMERG. Opers inop 1700 to 0730. No svcg 2000 to 0730. Fld lgts avail. only on advance req. Obst lgts on mtn N of fld inop. (3-1)

VERMONT

BARRE-MONTPELIER ARPT (BERLIN)-Use rnwys only. (8-7)
BURLINGTON ARPT-Use rnwys only. Const E side of N end N/S rnwy. (9-16)

VIRGINIA

ALBERTA ARPT-ENE/WSW strip rough. Ends, sides ENE/WSW, NNW/SSE strips marked by 12' yellow markers. (5-24)
ALTAVISTA ARPT-200' NE end of fld unusable in wet weather. (5-23)
BLACKSTONE AAF-Temp inactive. No facs. (See Special Notice re use).
CENTRAL ARPT (RICHMOND)-During wet weather use strips only. (5-20)
CHINCOTEAGUE NAAS-Closed 1700 to 0800 except in emerg or on req with 2 hrs. notice. Bcn operates all ngt except during local ngt flying with CFR conditions. Bcn turned on during ngt flying in emerg. or on req. (9-5)
COLONIAL BEACH ARPT-CLOSED (wet - high grass) (8-9)
**COVINGTON ARPT-New fld. Lat.37-48-30, long. 79-59-00. (9-13)- See page 73.

CROSSROADS ARPT (ALEXANDRIA)-CLOSED (const). (4-1)
DAHLGREN NAF PROVING GROUNDS-CLOSED TO TRANS MIL ACFT EXCEPT THOSE ON OFF. BUS OR IN EMERG. Off. flights must be cleared thru one of the following Naval Air Stns: Anacostia, D.C.; Patuxent River, Md.; Norfolk, Va.; Quonset Point, R.I.; Cape May CGAS, N.J.; Inyokern NAF, Calif.; NAF Torpedo Stn, Newport, R.I.; Naval Acft Factory, Philadelphia, Pa.; Cherry Point MCAS, S.C.; Quantico MCAS, Va.; AAF Proving Gnds, Eglin Fld, Valpariso, Fla.; Langley Fld, Va.; Wright Fld, Dayton, Ohio; Aberdeen Proving Gnd, Aberdeen, Md.; Lakehurst NAS, N.J. 1 rnwy closed. Equip. on fld. Only 1 rnwy avail. ngts. (8-28)
**DIXIE HOLLAND FLD (CAPE CHARLES)-New fld. Lat. 37-17, long. 76-00. (10-2). See page 112.
EMPORIA ARPT-Fixed tee, wind sock being lctd on hangar S side fld. Hangar under const. (5-4)
FENTRESS NAAS-Use in emerg. only (caretaker status - no facs).
**FORT BELVOIR-Danger area W has been discont.
GORDONSVILLE-RADIO: Range flight-checked Oct. 8, courses correctly aligned.
HARCUM ARPT-Use NE/SW strip only between yellow cone markers. (6-14)
HOPEWELL ARPT-SE portion under const. Equip. on fld. (6-7)
HYBLA VALLEY ARPT (ALEXANDRIA)-Surplus Acft Sales Center - parked acft.
LANGLEY FLD-RADIO: S course of Army range unreliable - 11° W, bearing 3°. AACS ground to air stn temp inop. Army range voice transmission temp inop. (6-25)
• FLD: Rnwy 12-30 closed ngts. Rnwys 12-30, 2-20 closed to 4-engine acft. Only 100 oct. avail. (6-21)
LOVING FLD-SITE 35A, NASHVILLE-WASHINGTON (PULASKI)-Observe right traffic pattern for landings from SW on NE/SW rnwy. (8-1)
MILFORD INT, SITE 49B, AG-LG-NE/SW strip unsafe. (5-9)
★MONOGRAM NAAS (DRIVERS)-RADIO: Navy twr decomm. (9-25) FLD: Use in emerg only (caretaker status - no facs)
NORFOLK-RADIO: VHF range comm FOR TEST PURPOSES ONLY Sept 26. Lctd at lat. 36-48-18, long. 76-12-06- Ident. "NW". Freq. 108.7 mcs. Visual courses: 20°, 15', 200°, 15'. Aural courses: 110°, 15', 290°, 15'. Class: VARW. Aligned by ground check only. (9-28)
NORFOLK NAS-EAST FLD-Shoulders adj perimeter taxiway soft. Pilots on Southbound coastal flights proceeding in accordance with IFR to NAS Norfolk, shall establish radio ctc with twr at NAAS Chincoteague, Va., for further clearance instructions from Navy Norfolk. Pilots on Northbound coastal flights proceeding in accordance with IFR to NAS Norfolk shall establish radio ctc with Navy Weeksville Radio, NAS (LTA) Weeksville, Elizabeth City, N.C. for further clearance and instructions from Navy Norfolk. Equip. on fld. (7-22)
OCEANA NAAS-Rnwys, taxi strips under const. Facs avail. 0800 to 1630 Mon. thru Fri. Acft clearance not accepted 1630 to 0800 Mon. thru Fri. Essential mil flights accepted anytime on prior notification. (9-26)
ORANGE CO. ARPT (ORANGE)-E-W strip under const. (9-27)
PETERSBURG ARPT-CLOSED (const). (8-2)
PRESTON GLENN ARPT (LYNCHBURG)-Use rnwys only. Ctc Lynchburg Radio for landing instructions. Pwr line extension of 2 poles approx 3200' NW of W end E/W rnwy and 3 poles approx 3600' to 3800' W of W end E/W rnwy, unlgtd, unmrks.(9-25)
RICHMOND-Elko Aux. Fld, 5 mi E of Richmond AAB, is similar in design and layout to the Richmond AAB, BUT RNWYS ARE UNSUITABLE FOR LANDING BY ACFT OF ANY TYPE. Care should be taken not to confuse this fld with the Richmond AAB.
RICHMOND AAB-Ltd Army svcg facs. No 91 oct. Avoid using 1000' rnwy extensions. Rnwy, taxiway shoulders soft. All acft landing this fld without establishing radio communication with control twr watch carefully for lgt gun signals; control twr lctd in center of triangle of rnwys. Only 73, 100 oct. avail. (8-7)

UNIVERSITY OF VIRGINIA ARPT (CHARLOTTESVILLE)-Caution in wet weather.(6-7)
VALLEY ARPT (WAYNESBORO)-Grading equip. on fld. One rnwy will be kept open. These data rcvd too late for (D) symbol. (10-12)
WINCHESTER ARPT-E end E/W strip rough. Contact Front Royal Radio or circle fld before landing. (6-7)
WOODRUM FLD (ROANOKE)-Equip. on fld and adj all rnwys. (5-12)

WASHINGTON

SPECIAL NOTICE-Benton Co. Danger Area approx 12 mi NW of Pasco is particularly hazardous-all flights avoid. (See Spokane Flight Planning Chart #3, Spokane Sectional, and Washington 5 Danger Area Charts).
AMAMBILIS, BEACON SITE 5A, SA-HL-Bcn inop. (9-26)
ARLINGTON NAAS-Use in emerg only (caretaker status - no facs).
**AUBURN ARPT-New fld. Lat 47-17-45, long. 122-11-30. See page 141.
BOEING-RENTON ARPT (RENTON)-CLOSED TO ALL ACFT EXCEPT MIL ACFT ON OFF. BUS. AT BOEING PLANT
COLVILLE ARPT-NW/SE rnwy closed. (1-17)
CONNELL ARPT-18" grass and weeds on fld. (7-17)
COUPEVILLE OLF-Closed except in emerg. Train. use requires 24 hrs advance notice thru Whidbey Island NAS (9-11)
DOROTHY SCOTT ARPT (OROVILLE)-2' weeds S 1000' N/S strip. (7-1)
EPHRATA ARPT-Loose cattle on fld. (10-7)
FAIRWEATHER FLD (REPUBLIC)-Soft. Cattle on fld. (7-17)
FELTS FLD (SPOKANE)-Fancher bcn near Felts Fld inop. Take-offs and landings on sod area should be completed before reaching taxiway near center of fld. (8-28)
GEIGER FLD (SPOKANE)-Temp inactive. No facs. (See Special Notice re use)
HAFER'S RANCH ARPT (CHEWELAH)-Closed pending decision re abandonment.(7-1)
ILWACO ARPT-CLOSED (const)- (7-20)
KING CO. ARPT-BOEING FLD (SEATTLE)-Use rnwys, taxi strips only. Equip. adj Rnwy 13-31. (9-26)
LAKE SAMMAMISH SEAPLANE ANCHORAGE (ISSAQUAH)-CLOSED. (4-26)
McCHORD FLD (TACOMA)-RADIO: Army ILS (CAA type) temp inop. (10-12)
FLD: Use rnwys, taxiways only. Equip. on fld. Glide path bldg 13' high with 25' antenna being erected about 1340' N of S end N/S rnwy and 250' E of Rnwy centerline; lgtd ngts. (12-13)
MERCER AIRFLD (BELLEVUE)-Const on taxiway, apron. Alternate temp area avail. E side fld. (9-3)
MONROE-RADIO: FM on Seattle range temp inop. (10-3)
MOON ISLAND ARPT (ABERDEEN)-Equip. E end E/W rnwy 0730 to 1800 daily. Emerg. landings may be made on W end of rnwy. (9-25)
MOSES LAKE AAF-Temp inactive. No facs. (See Special Notice re use).
MT. CATHERINE, BCN SITE 4, SA-HL-Bcn inop. (6-19)
MT. VERNON OLF-Closed except in emerg. Train. use requires 24 hrs advance notice thru Whidbey Island NAS. Bcn inop. (10-1)
PAINE FLD (EVERETT)-Closed for landings, take-offs sunset to sunrise except by prior arrangement with fld manager. Lgts on req. (7-28)
PASAYTEN USFS ARPT (WINTHROP)-Horses on strips intmtly. (7-1)
PASCO-See Special Notice (first item under state heading).
PASCO NAS-Use in emerg. only (caretaker status - no facs).
PULLMAN-MOSCOW REGIONAL ARPT (PULLMAN)-Closed to acft over 10,000 lbs. (1-26)
ROSALIA MUN. ARPT-12" grass and weeds. (7-16)
SEATTLE-All acft advised not to fly below or near blimps in Puget Sound area.
SEATTLE NAS-Approach stn from Kirtland at 1000' alt. Seaplanes landing at NAS, Seattle, approach over Lake Washington from N or S under 200'. Rnwy 14-32 and

WASHINGTON-Continued

wind direction indicator lgtd from sunset to sunrise. Rnwy 14R used as taxiway for large multi-engine acft. (6-26)

SEATTLE SKY RANCH (ISSAQUAH)-New strip being const. Acft use sodded portion adj to strip under const. (6-26)

SEATTLE-TACOMA ARPT (SEATTLE)-RADIO: ILS emits localizer signals on 110.3 mcs, boundary and outer marker signals on 75 mcs cont. These signals may at times be spurious and are not to be relied upon for any purpose. (10-8)

FLD: Equip. on fld days. Const approx 20' N of N end NW/SE rnwy. (8-22)

SPOKANE AAF-Use rnwys only. (4-25)

SULLIVAN LAKE ARPT (METALINE FALLS)-2' grass and weeds. (7-1)

**TOUCHET VALLEY ARPT (HUNTSVILLE)-New fld. Lat. 46-17-45, long. 118-06-00. See page 4.

**WALLA WALLA AAF-210' twr 2-1/2 mi SSE, red bcn flash. 30 f.p.m. atop. (10-13) Army opers open 0700 to 1800. No svcg 1700 to 0800. All blinker lgts on mtns E of fld inop. Equip. on fld 0800 to 1700 Mon thru Fri. Twr bndry lgts inop. (10-13)

WESTPORT ARPT-Driftwood on fld after extremely high tides. (7-21)

WHIDBEY ISLAND NAS-AULT FLD (WHIDBEY ISLAND)-Bcn opers on IFR and from sunset to sunrise. Warm-up aprons avail. for all rnwys. (9-11)

WILBUR ARPT-Center 200' strip avail. Equip. on fld. (8-8)

YAKIMA-RADIO: 116.1 mc transmitter and receiver inop. (8-22). Range flight checked Oct 10, courses all have multiples.

YAKIMA CO. ARPT (YAKIMA)-Graded areas rough. Ctc lgts on N/S, NE/SW rnwys partially obscured by weeds. (10-4)

WEST INDIES

TRINIDAD-Carlsen Fld-Edinburgh (North)-Rnwy closed to all Navy traffic except in emerg. Use Xeres (South) rnwy.

WEST VIRGINIA

ELKINS ARPT-Contact Elkins Radio or circle fld before landing. (7-16)

LOUIS BENNETT ARPT (WESTON)-Soft spots after continuous heavy rains. (6-4)

PAYNESVILLE-RADIO: Priv H fac operated by PCA 0600 to 2300, use with caution.

SCOTT FLD (BECKLEY)-Use right hand traffic pattern. (5-7)

WISCONSIN

CLINTONVILLE ARPT-Use strips only. (6-7)

CURTISS-WRIGHT ARPT (MILWAUKEE)-Closed ngts. (9-26)

EAU CLAIRE MUN. ARPT-Temp closed. (9-5)

GENERAL MITCHELL FLD (MILWAUKEE)-Equip. on fld days. Right turn procedure rstd to lcly based acft. All acft land acrdg to tetrahedron unless otherwise instrd by twr. All pilots must register in Admin Bldg upon arvl and dptr. Taxi strip S end fld connecting N/S, NW/SE rnwys closed. Excavated area 40' N of middle and E end E/W rnwy and junction NE/SW, NW/SE rnwys. Ditch digging 40' S of SE end NW/SE rnwy. (9-11)

GINNOW ARPT (OMRO)-Use strips only. (6-7)

KENOSHA ARPT-Only N bank floodlgts avail. on req. (6-10)

LA CROSSE ARPT-Use rnwys only. (9-24)

MOREY ARPT (MADISON)-Equip. on fld - portions under const. marked. (4-28)

PLATTE ARPT (PLATTEVILLE)-CLOSED (const). (6-12)

RICE LAKE ARPT-Uncompleted portion NE/SW strip rough. (5-22)

RICHLAND CENTER ARPT-Equip. on fld. (8-10)

SHAWANO ARPT (SHAWANO)-Use rnwys only. E-W strip under const. (10-8)

SKY HAVEN ARPT (MILWAUKEE)-S 1/3 portion N/S strip unusable (washouts)(6-5)

**SKY VILLAGE ARPT (PLYMOUTH)-New fld. Lat. 43-45-30, long. 88-01-00. (10-8) See page 16.

STEVENS POINT ARPT-Use rnwys only. (8-9)

TAYLOR CO. ARPT (MEDFORD)-Avail. in emerg. only. Very rough. Maintained for small acft only. (6-6)

TOMAH ARPT-N/S strip under const. (7-9)

WISCONSIN-Continued

TRUAX FLD (MADISON)-Army temp inactive-civil. facs. Use rnwys only. Grass area rough. (10-8)

VETERANS FLD (MENOMONIE)-Rough. (3-28)

WATERTOWN MUN. ARPT-N/S strip soft-use W part of sod when wet. (4-10)

WINNEBAGO COUNTY ARPT (OSHKOSH)-Use rnwys only. (8-20)

WYOMING

CASPER-RADIO: Soon, FM will be comm at Parkerton, Wyo. at lat. 42-53-48, long. 105-58-06, ident. one dash. Bear. and dist, range stn to FM: 76°, 17 mi. (10-9)

CASPER AAF-Temp inactive. No facs. (See Special Notice re use)

★CHEYENNE-RADIO: Auto. range monitor. sys comm Oct. 9, monitor. NW course.

CHEYENNE ARPT-Equip. on fld intmtly. (7-20)

JACKSON MUN ARPT-Cattle on fld intmtly. (5-20)

SHERIDAN COUNTY ARPT (SHERIDAN)-N/S rnwy unsafe heavy acft. Taxi strips parallel all rnwys except N/S rnwy and terminate at ramp. Stay on pavement. Equip. on fld. (5-8)

WARDWELL FLD (CASPER)-Use rnwys, taxi strips only, bal fld rough. (7-15)

AERONAUTICAL CHARTS

October 14, 1946

U. S. Coast and Geodetic Survey

Dates of Latest Prints

Dates in small type indicate minor changes which are not of sufficient importance to make the previous print obsolete. All charts carrying dates older than those shown in large type on this list are obsolete for use in flight.

SECTIONAL

Aberdeen	Dec. 11, 1945	May 31, 1946	Denver	Mar. 5, 1946		Norfolk	Apr. 16, 1946		Reno	May 17, 1945	Aug. 26, 1946
Albany	July 9, 1946		Des Moines	June 12, 1946		Oklahoma City	Mar. 19, 1946		Roswell	Mar. 5, 1946	
Albuquerque	Sept. 9, 1946		Detroit	July 11, 1946		Orlando	Aug. 6, 1946		Sacramento	Sept. 9, 1946	
Aroostook	June 26, 1946		Douglas	July 27, 1946		Phoenix	Aug. 21, 1946		Salina	Mar. 5, 1946	
Austin	Aug. 11, 1946		Dubuque	Oct. 2, 1945	June 18, 1946	Pocatello	May 27, 1946		Salt Lake City	Aug. 30, 1945	May 17, 1946
Beaumont	July 25, 1946		Duluth	Jan. 8, 1946	June 6, 1946	Portland	Apr. 30, 1946		San Antonio	July 30, 1946	
Bellingham	Apr. 30, 1946		Elko	May 4, 1946		Prescott	Mar. 5, 1946	Sept. 3, 1946	San Diego	Aug. 27, 1946	
Birmingham	Apr. 2, 1946		El Paso	July 25, 1946		Rapid City	May 3, 1945	May 17, 1946	San Francisco	Aug. 10, 1946	
Boise	Apr. 30, 1946		Fargo	May 29, 1946		Lewiston	July 2, 1946		Savannah	Apr. 2, 1946	
Boston	July 2, 1946		Glacier Park	Apr. 26, 1945	May 7, 1946	Lincoln	June 6, 1946		Seattle	Apr. 30, 1946	
Burlington	June 24, 1946		Grand Canyon	Feb. 19, 1946	Sept. 16, 1946	Little Rock	Mar. 19, 1946		Shreveport	Mar. 19, 1946	
Butte	May 15, 1946		Grand Junction	Feb. 19, 1946	Sept. 13, 1946	Los Angeles	Aug. 12, 1946		Sioux City	May 31, 1946	
Casper	May 20, 1946		Green Bay	June 12, 1946		Miami	Aug. 8, 1946		Spokane	May 10, 1946	
Charlotte	Apr. 2, 1946		Huntington	Nov. 27, 1945	April 2, 1946	Miles City	May 13, 1946		Trinidad	Mar. 5, 1946	
Chattanooga	Apr. 2, 1946		Jacksonville	Aug. 11, 1946		Milwaukee	June 16, 1946		Tulsa	Mar. 19, 1946	
Cheyenne	Aug. 30, 1945	May 24, 1946	Kansas City	Mar. 19, 1946		Minot	June 6, 1946		Twin Cities	May 31, 1946	
Chicago	June 17, 1946		Klamath Falls	Apr. 30, 1946		Mobile	Aug. 6, 1946		Washington, D.C.	Apr. 16, 1946	
Cincinnati	Apr. 2, 1946		Kootenai	Apr. 19, 1945	April 16, 1946	Mt. Shasta	May 3, 1945	May 3, 1946	Wichita	Mar. 5, 1946	
Cleveland	June 24, 1946		La Grande	May 3, 1945	May 9, 1946	Mt. Whitney	Aug. 27, 1946		Williston	May 3, 1945	May 9, 1946
Corpus Christi	Aug. 6, 1946		Lake Huron	June 25, 1946		Nashville	Apr. 2, 1946		Winston-Salem	Apr. 2, 1946	
Dallas	Mar. 5, 1946		Lake Superior	June 13, 1946		New Orleans	Aug. 6, 1946		Yellowstone Park	Oct. 30, 1945	May 13, 1946
Del Rio	Jan. 22, 1946	July 23, 1946	Lake of Woods	May 24, 1946		New York	July 2, 1946				

WORLD AERONAUTICAL - UNITED STATES

WAC 215	May 9, 1946	WAC 266	May 29, 1946	WAC 309	July 13, 1946	WAC 364	Aug. 11, 1946	WAC 467	Aug. 6, 1946
WAC 216	May 17, 1946	WAC 267	May 24, 1946	WAC 310	Aug. 6, 1946	WAC 404	Mar. 5, 1946	WAC 468	July 30, 1946
WAC 217	June 4, 1946	WAC 268	June 12, 1946	WAC 357	Apr. 30, 1946	WAC 405	Mar. 5, 1946	WAC 469	July 25, 1946
WAC 218	June 17, 1946	WAC 269	May 10, 1946	WAC 358	Apr. 16, 1946	WAC 406	Mar. 19, 1946	WAC 470	July 17, 1946
WAC 219	June 13, 1946	WAC 304	May 29, 1946	WAC 359	Apr. 16, 1946	WAC 407	Apr. 2, 1946	WAC 471	July 15, 1946
WAC 262	June 26, 1946	WAC 305	May 13, 1946	WAC 360	Apr. 2, 1946	WAC 408	Apr. 2, 1946	WAC 522	July 29, 1946
WAC 263	June 18, 1946	WAC 306	May 29, 1946	WAC 361	Apr. 2, 1946	WAC 409	Apr. 16, 1946	WAC 525	Aug. 8, 1946
WAC 264	July 10, 1946	WAC 307	June 6, 1946	WAC 362	Mar. 5, 1946	WAC 410	Apr. 16, 1946		
WAC 265	June 12, 1946	WAC 308	June 12, 1946	WAC 363	Aug. 11, 1946	WAC 466	Aug. 10, 1946		

RADIO DIRECTION FINDING

21-DF	July 8, 1946	23-DF	Mar. 5, 1946	25-DF	Apr. 2, 1946
22-DF	July 22, 1946	24-DF	May 14, 1946	26-DF	May 19, 1946

LOCAL

New York & Vicinity	Aug. 6, 1946	Miami	July 3, 1946
San Diego	Aug. 20, 1946	Brownsville	July 8, 1946
		Los Angeles	Sept. 13, 1946

WORLD AERONAUTICAL - ALASKA

WAC 62	Feb. 1946	WAC 76	May 1946	WAC 118	Aug. 1946	WAC 136	May 1946	WAC 139	Mar. 1946	WAC 191	Apr. 1946
WAC 63	May 1946	WAC 77	Oct. 1944	WAC 119	Jan. 1946	WAC 137	Mar. 1946	WAC 186	Mar. 1946	WAC 192	Mar. 1946
WAC 64	Mar. 1946	WAC 117	Aug. 1946	WAC 135	Mar. 1946	WAC 138	May 1946	WAC 190	Apr. 1946	WAC 193	Mar. 1946

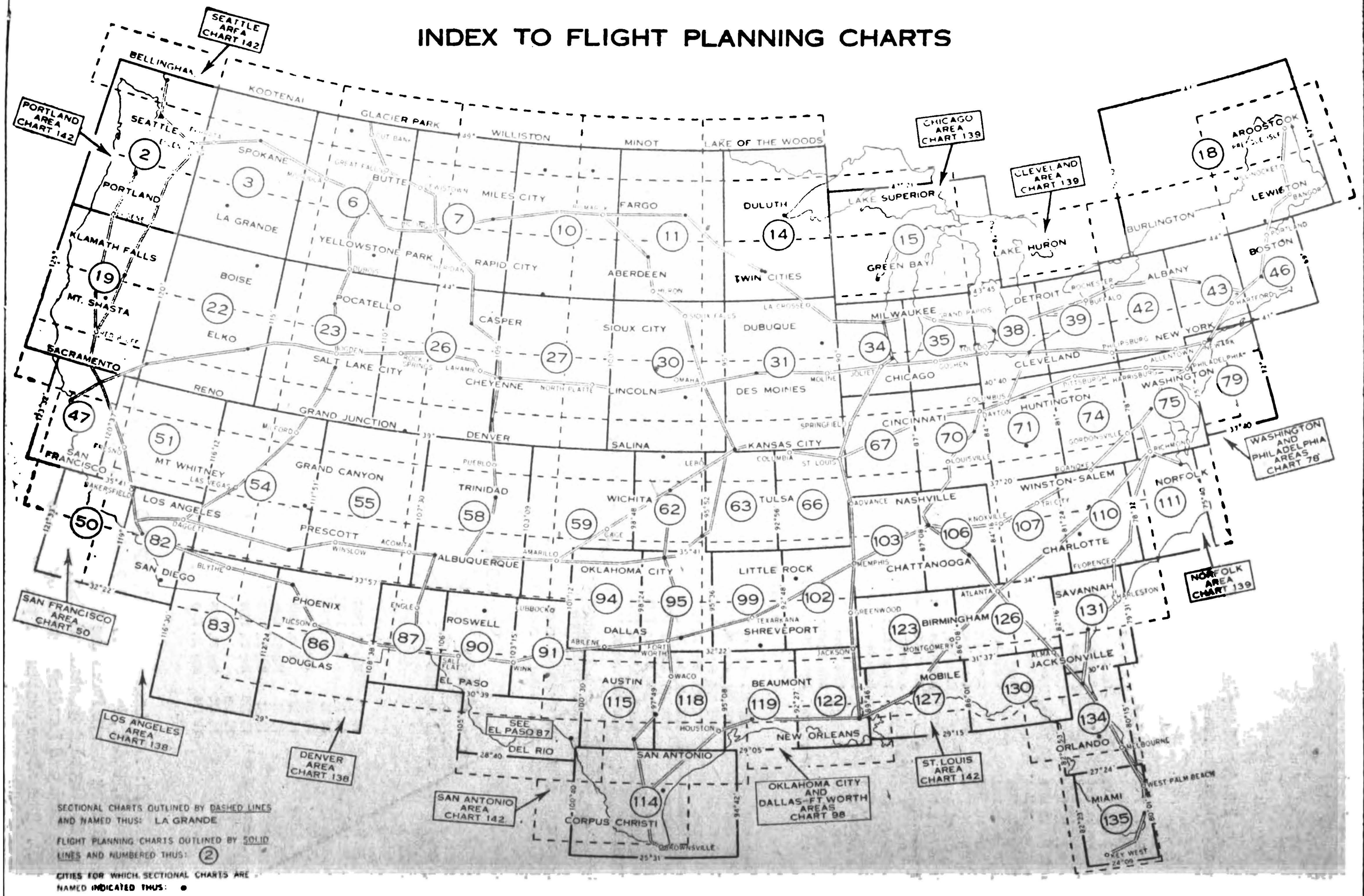
FLIGHT

FC 1	Mar. 30, 1946	FC 13	May 28, 1946	FC 177		FC 214	May 31, 1945	FC 226	Mar., 1945
FC 2	May 28, 1946	FC 14	Feb., 1945	FC 178	May 15, 1946	FC 216	May 17, 1946	FC 227	Sept. 12, 1945
FC 3	July 9, 1946	FC 15	Apr., 1945	FC 181	July 11, 1946	FC 217	Oct. 30, 1945	FC 228	Sept. 12, 1945
FC 4	July 23, 1946	FC 16	Aug. 6, 1946	FC 182	Mar. 5, 1946	FC 218	May 9, 1946	FC 229	July 9, 1946
FC 6	Oct., 1945	FC 18	June, 1943	FC 183	Apr. 2, 1946	FC 219		FC 230	July 5, 1945
FC 7	July, 1945	FC 42	May 15, 1946	FC 184	Mar. 19, 1946	FC 220	May 31, 1945	FC 231	May 31, 1945
FC 8	June, 1946	FC 43	May 31, 1946	FC 185	May 31, 1946	FC 221	May 31, 1946	FC 232	May 31, 1945
FC 9	Nov., 1944	FC 173	May 24, 1946	FC 186	June 21, 1945	FC 222	May 31, 1946	FC 233	Apr. 16, 1946
FC 10	Dec., 1944	FC 174		FC 187	May 31, 1946	FC 223	May 24, 1946	FC 234	May 31, 1946
FC 11	July 9, 1946	FC 175	May 31, 1945	FC 188	June 21, 1945	FC 224	May 31, 1945		
FC 12	Aug. 6, 1946	FC 176	May 31, 1945	FC 213		FC 225	June 7, 1945		

NEW CHARTS: Los Angeles Local, OP 305 Orlando, Fla., AAB; OP 432 Tulsa, Okla., Airport; OP 529 Thermal, Calif., NAF; AL 569 Porterville, Calif., AAF.

When ordering charts from the U.S. Coast and Geodetic Survey, correct remittances should accompany all orders. Sectional Aeronautical Charts should be ordered by name; World Air Charts with the prefix (WAC); Approach and Landing Charts by number with the prefix (AL); Route Charts by number with the prefix (FC). The above charts are priced at 25¢ each with the exception of Approach and Landing Charts which are priced at 5¢ each.

INDEX TO FLIGHT PLANNING CHARTS

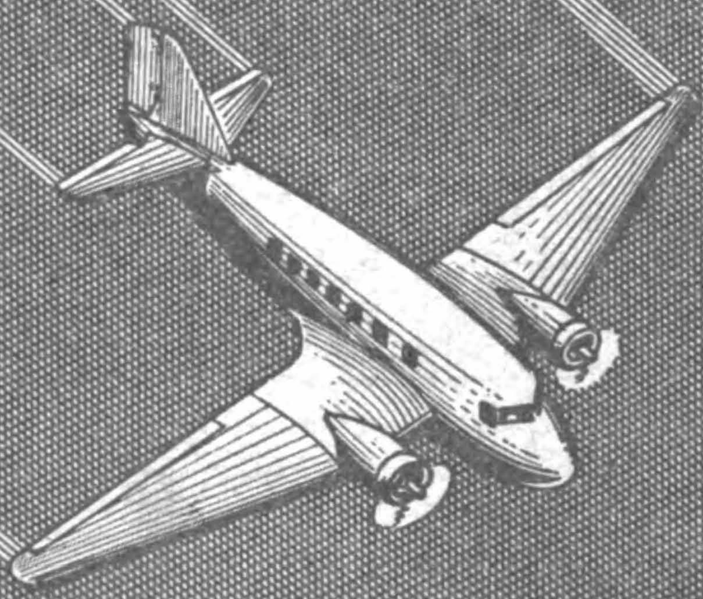


SECTIONAL CHARTS OUTLINED BY DASHED LINES AND NAMED THUS: LA GRANDE

FLIGHT PLANNING CHARTS OUTLINED BY SOLID LINES AND NUMBERED THUS: (2)

CITIES FOR WHICH SECTIONAL CHARTS ARE NAMED INDICATED THUS: ●

AIRMAN'S GUIDE



NOTICES TO AIRMEN
DIRECTORY OF AIRPORTS
AIR NAVIGATION RADIO AIDS

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U.S. DEPT. OF COMMERCE

VOL. 1, NO. 16 . . OCTOBER 29, 1946

This issue includes all data on record as of 0001 E.S.T. on the date above. For later information consult teletype NOTAMS.

U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
OFFICE OF AVIATION INFORMATION

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(86)-Page number of chart on which these locales are inscribed. •-Facility listed on data pages but not charted. Seaplane Bases are not charted. N.B. New facility locations listed below black line.

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Hector (14)
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Lake City (14)

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Greenville (102)
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Linkville (31)
Luray (31)
McBride (67)
Machens (142)*
Malden (103)
Marceline (31)
Marshall (31)
Marysville (31)
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Moberly (31)
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Tarkio (30)
Tenton (31)
Unionville (31)
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Versailles (66)
Vichy (66)
Warrensburg (63)
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Windsor (63)

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Belt (6)
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Billings (7)
Birney (7)*
Bozeman (6)
Butte (6)
Cascade (6)
Chester (6)
Chinook (7)*
Choteau (6)
Circle (7)
Columbus (7)
Conrad (6)
Custer (7)
Cut Bank (6)
Deer Lodge (6)
Dell (6)
Denton (7)
Dillon (6)
Drummond (6)
Ennis (6)*
Eureka (3)
Flathead (6)*
Forsyth (7)
Fort Benton (6)
Fort Peck (7)
Gates Park (6)*
Geraldine (6)
Geyser (6)
Glasgow (7)
Glendive (10)
Great Falls (6)
Gregson (6)
Hamilton (6)
Hardin (7)*
Harlem (7)
Harlowton (7)
Havre (7)

(85)-Page number of chart on which these locales are inscribed. *-Facility listed on data pages but not charted. Seaplane Bases are not charted. N.B. New facility locations listed below black line.

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Helena (6)
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Huson (6)•
Ingomar (7)•
Jordan (7)•
Kalispell (6)
Lavina (7)
Lewistown (7)
Libby (3)
Livingston (6)
McDonald Pass (6)
Malta (7)
Mildred (7)
Miles City (7)
Missoula (6)
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Nibbe (7)
Park City (7)
Plains (6)
Plentywood (10)
Polesbridge (6)
Polson (6)
Poplar (7)•
Rapelje (7)
Red Lodge (7)•
Roundup (7)•
St. Xavier (7)
Scobey (7)
Seeley Lake (6)•
Shelby (6)
Sheridan (7)
Sidney (10)
Stanford (6)
Stevensville (6)
Superior (6)
Tampico (7)
Thompson Falls (3)
Townsend (6)
Troy (6)•
Twin Bridges (6)
Valier (6)
Vida (7)
West Yellowstone (6)
Whitehall (6)
White Sulphur Spgs.
Whitetail (6)
Winston (6)
Wolf Point (7)

NEBRASKA

Ainsworth (30)
Alliance (27)
Atkinson (30)
Auburn (30)
Bayard (27)
Beatrice (30)
Beaver City (30)
Benkelman (27)
Big Springs (27)
Blair (30)
Brainard (30)
Broken Bow (30)
Bruning (30)
Chadron (27)
Chappell (27)
Clay Center (30)
Columbus (30)
Cozad (30)
Crawford (27)
Crete (30)
David City (30)
Decatur (30)
Elgin (30)
Fairbury (30)
Falls City (30)
Fort Robinson (27)
Fremont (30)
Geneva (30)
Gordon (27)
Grand Island (30)
Harvard (30)
Hastings (30)
Hayes Center (27)
Hay Springs (27)
Hebron (30)
Holdrege (30)
Humboldt (30)
Imperial (27)
Kearney (30)
Lexington (30)
Lincoln (30)
Lorenzo (27)
McCook (27)
Mead (30)
Mitchell (27)
Norfolk (30)
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Omaha (30)
Oshkosh (27)
Overton (30)
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Carolina Beach (111)
Chapel Hill (110)
Charlotte (110)
Cherry Point (111)
Clinton (111)
Concord (110)
Derita (110)
Draper (110)
Durham (110)
Eagle Springs (110)
Edenton (111)
Elizabeth City (111)
Elkin (110)
Erwin (110)
Fayetteville (110)
Fort Bragg (110)
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Greensboro (110)
Greenville (111)
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Lincolnton (110)
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Mayodan (110)
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New River (111)
North Wilkesboro (110)
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Pollocksville (111)
Raleigh (110)
Red Springs (110)
Reidsville (110)
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Rocky Mount (111)
Roxboro (110)
Salisbury (110)
Sanford (110)
Selma (111)
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South Mills (111)
Spindale (107)
Statesville (110)
Sylva (107)
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Wadesboro (110)
Wallace (111)
Warrenton (111)
Washington (111)
Weeksville (111)
West Jefferson (107)
Whiteville (110)
Wilmington (111)
Wilson (111)
Winston-Salem (110)
Yanceyville (110)
Zebulon (111)

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Ashley (11)
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Bismarck (10)
Bowman (10)
Cando (11)
Carrington (11)
Crosby (10)
Dawson (11)
Devils Lake (11)
Dickinson (10)
Driscoll (10)
Dunseith (10)•
Fargo (11)
Fessenden (11)
Glen Ullin (10)
Golva (10)
Grand Forks (11)
Harvey (11)
Jamestown (11)
Judson (10)
Killdeer (10)
Langdon (11)
Lisbon (11)
Minot (10)
Mohall (10)
Mott (10)
New England (10)
New Rockford (11)
Parshall (10)
Pembina (11)
Rhame (10)
Rolla (11)
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(85)-Page number of chart on which these locales are inscribed. •-Facility listed on data pages but not charted. Seaplane Bases are not charted. N.B. New facility locations listed below black line.

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(95)-Page number of chart on which these locales are inscribed. •-Facility listed on data pages but not charted. Seaplane Bases are not charted. N.B. New facility locations listed below black line.

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Neah Bay (2)
Newport (3)
North Bend (2)

Okanogan (3)
Olympia (2)
Omak (3)
Opportunity (3)
Orchards (142)
Oroville (3)
Pasco (3)
Pateros (3)
Port Angeles (2)
Port Orchard (2)
Port Townsend (2)
Prosser (3)
Pullman (3)
Puyallup (142)
Quillayute (2)
Randle (2)•
Renton (142)
Republic (3)•
Ritzville (3)
Rosalia (3)
Seattle (142)
Shelton (2)
Silverdale (142)
Snohomish (2)
Spanaway (142)
Spokane (3)
Stevenson (2)
Sunnyside (2)
Tacoma (142)
Toledo (2)
Tonasket (3)
Toppenish (2)
Twisp (2)
Vancouver (142)
Walla Walla (3)
Washougal (2)
Washtucna (3,142)
Wenatchee (2)
Westport (2)
Whidbey Island (2)
Wilbur (3)
Winthrop (2)
Woodland (2)
Yakima (2)

WEST VIRGINIA

Beckley (71)
Buckhannon (74)
Bunker Hill (74)
Burlington (74)
Charleston (71)
Clarksburg (74)
Elkins (74)
Glendale (74)
Hinton (74)
Logan (71)
Marlinton (74)
Martinsburg (75,74)
Moorefield (74)
Morgantown (74)
Parkersburg (71)
Paynesville (71)
Pence Springs (74)•
Petersburg (74)
Princeton (71)
Ravenswood (71)
Romney (74)
Ronceverte (74)
Spencer (71)
Sutton (74)
Terra Alta (74)
Weston (74)
Wheeling (74)
White Sulphur Spgs. (74)
Williamson (71)
Winfield (71)

WISCONSIN

Amery (14)
Antigo (15)
Appleton (15)
Arbor-Vitae (15)•
Ashland (14)
Baraboo (34)
Beaver Dam (34)
Black River Falls (14)
Bloomer (14)
Boulder Junction (15)
Boyceville (14)
Brodhead (34)
Camp Douglas (31)
Camp McCoy (31)
Cedarburg (34)
Chetek (14)
Chippewa Falls (14)
Clintonville (15)
Colby (14)
Dallas (14)
Darlington (31)
Durand (14)
Eagle River (15)•
Eau Claire (14)
Elkhorn (34)
Fifield (14)•
Fond du Lac (34,15)
Genesee (34)
Green Bay (15)
Hayward (14)
Hudson (14)
Janesville (34)
Jefferson (34)
Kenosha (34)
Kohler (15,34)
La Crosse (31)
Ladysmith (14)
Lake Delton (34)
Land O'Lakes (15)
Lone Rock (31)
Madison (34)
Manitowoc (15)
Manitowish (15)

Marshfield (14)
Medford (14)
Menomonie (14)
Merrill (15)•
Milwaukee (34)
Monroe (34)
Neenah (15)
Neillsville (14)
Oconto Falls (15)
Omro (15)
Oshkosh (15,34)
Phillips (14)
Portage (34)
Racine (34)
Rhinelander (15)
Rice Lake (14)
Richland Center (31)
Shullsburg (31)
Shawano (15)
Sparta (31)
Spooner (14)
Stevens Point (15)
Sturgeon Bay (15)
Sturtevant (34)
Superior (14)
Three Lakes (15)
Tomah (31)
Tomahawk (15)•
Washington Island (15)•
Watertown (34)
Waukesha (34)
Waupaca (15)
Waupun (34)
Wausau (15)
West Bend (34)
Whitewater (34)
Wisconsin Rapids (15)
DePere (15)

WYOMING

Afton (23)
Archer (27)
Basin (7)
Big Piney (23)•
Buffalo (7)
Casper (26)
Cheyenne (27)
Cody (7)
Cokeville (23)
Cowley (7)
Douglas (26)
Dull Center (27)
Egbert (27)
Evanston (23)
Fort Bridger (23)
Gillette (7)
Greybull (7)
Jackson (23)
Kemmerer (23)
Knight (23)
Lander (26)
Laramie (26)
Lusk (27)
Meadows (27)
Medicine Bow (26)
Midwest (26)
New Castle (27)
Pine Bluffs (27)
Pinedale (26)
Point of Rocks (26)
Powell (7)
Rawlins (26)
Riverton (26)
Rock Springs (26)
Sheridan (7)
Silver Crown (26)
Sinclair (26)
Sussex (26)
Thermopolis (26)
Torrington (27)
Ucross (7)
Wamsutter (26)
Wheatland (27)
Worland (26)

(85)-Page number of chart on which these locales are inscribed •-Facility listed on data pages but not charted. Seaplane Bases are not charted N.B. New facility locations listed below black line.

Plymouth,Wisc (15,34)Port Isable,Tex.(114) Saginaw,Tex (98) Cape Charles,Va.(111) Auburn,Wash.(142) Huntsville,Wash (3) Parkerton,Wyo.(25)Saratoga,Wyo.(26) Sandy,Utah (26)

DIGEST OF AIR TRAFFIC CONTROL PROCEDURES

This digest is prepared expecially for the use of pilots operating within control areas, airport approach zones and airport traffic zones. For detailed information, see Civil Aeronautics Administration Manual 60, AAF Regulation 60-16, and pertinent Navy Publications.

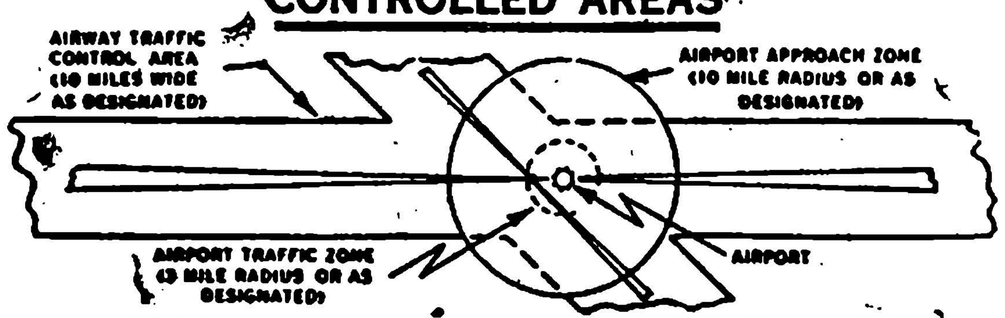
CONTACT FLIGHT RULES WEATHER MINIMUMS

	Inside Airport Traffic Zone (3-mile radius)	Inside Control Area (but outside of Airport Traffic Zones)	Elsewhere
Flights at altitudes of more than 700 feet above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	500 ft. vertically, 2000 ft. horizontally from all clouds-3 miles visibility (or 1 mi. with traffic clearance)	500 feet vertically, 2000 feet horizontally from all clouds 1 mile visibility
Flights at altitudes of 700 feet or less above surface	500 feet vertically, 2000 feet horizontally from all clouds* - 3 miles visibility*	Clear of clouds * * 1 mile visibility	Clear of clouds * * 1 mile visibility

*If traffic conditions permit, a control tower or control center will issue a traffic clearance when the minimums are less than those specified, but under this provision the flight must remain clear of clouds.

**In airport approach zones flights must remain 500 feet vertically and 2000 feet horizontally from all clouds unless a center or tower issues a traffic clearance for flight "clear of clouds".

CONTROLLED AREAS



FLIGHT PROCEDURES AND CONDITIONS

The types of flight plans and conditions under which aircraft may be operated are summarized as follows:

Contact Flight Rule (CFR)-Aircraft must be flown in weather conditions equal to or better than those outlined in the weather minima chart without benefit of reductions authorized by a traffic clearance. No flight plan or communication contacts are necessary other than as required by an airport traffic control tower for regulation of local airport traffic.

Contact Flight Rule-Controlled-Aircraft may be operated in weather conditions lower than the basic weather minima within control areas, airport approach zones, and airport traffic zones, providing the pilot files flight plan specifying the route to be flown with an airway traffic control center or airport traffic control tower, he receives a traffic clearance and he complies with all conditions stipulated in the clearance. Communication contacts and position reports may be required by Air Traffic Control for this type of flight, as traffic control separation will be afforded aircraft on the same basis as aircraft operating on an IFR flight plan.

Instrument Flight Rule (IFR)-Pilots proposing to operate aircraft in accordance with instrument flight rules are required to: file a complete flight plan with an airway traffic control center or airport traffic control tower and obtain a traffic clearance from the center or tower prior to flight; maintain continuous listening watch on the appropriate radio frequency, and report by radio the time and altitude of passing each designated reporting point. When an aircraft on an IFR flight plan is operating in weather conditions lower than the basic CFR minima a minimum altitude of 1000 feet above the surface must be maintained. A traffic clearance specifying that a portion of a flight is to be conducted in accordance with contact flight rules (CFR) will require that the pilot maintain without reduction, the basic contact flight rule minima as specified in CAR 60 and assume the responsibility of avoiding other aircraft during the portion of the flight specified. In the event of two-way radio failure, a pilot may (1) proceed according to current flight plan, maintaining the minimum safe altitude or the last acknowledged assigned altitude, whichever is higher, to the range station from which approach will be started to the airport of intended landing, and commence descent at approach time last authorized; or if such time has not been received and acknowledged commence descent at the time of arrival specified in the flight plan. Under such conditions a full-standard instrument approach should be executed unless a CFR approach is made; or (2) if weather conditions permit, proceed in accordance with CFR; or (3) land as soon as practicable. Normally, if the aircraft is operating flight rule weather conditions at the time the radio failure is discovered, the pilot should proceed in accordance with contact flight rules to the airport of first intended landing or to the nearest suitable airport. If this is not possible, the pilot will proceed according to current flight plan. In order that uniform flight levels will be maintained by all aircraft, the altimeter should always be set to the altimeter setting of the nearest reporting station as the flight proceeds. The altimeter setting is issued by the Weather Bureau, and when placed on the barometric scale of the altimeter, will result in a reading of the elevation above sea level on the height scale of the instrument.

Note: A flight plan is required on all AAF flights except for local flights within a defined local flying area.

Arrival Reports-It should be noted that whenever a flight plan has been filed whether for CFR or IFR operations, an arrival report is required, unless the pilot has stated in the flight plan that such report will not be filed.

Maintenance of Flight Altitudes-Within control areas, aircraft should be flown at even or odd thousand-foot levels above sea level depending upon the direction of flight as indicated by odd or even minimum altitudes shown on Flight Planning Charts, unless other altitudes are assigned and approved by an airway traffic control center.

Cruising altitudes outside of control areas or approach zones shall correspond to the direction of flight as indicated below:

MAGNETIC HEADING	Indicated Altitude (feet above sea level)
0° - 89° inclusive,	odd thousands: 1,000 feet; 3,000 feet: etc.
90° - 179° inclusive,	odd thousands plus 500 feet; 1,500 feet: 3500 feet; etc
180° - 269° inclusive,	even thousands: 2,000 feet; 4,000 feet; etc.
270° - 359° inclusive,	even thousands plus 500 feet; 2,500 feet; 4,500 feet; etc.

AIRPORT TRAFFIC CONTROL PROCEDURES

Aircraft with Two-Way Radio: If operating under contact flight rules, arriving aircraft should establish communication with the control tower when approximately 15 miles from the airport of destination. The tower will issue such instructions as are necessary. Pilots should remain tuned to the tower until the landing is completed and the aircraft parked. If on an instrument flight plan, arriving aircraft should remain on range frequency as long as required for navigational purposes. The control tower should not be contacted until after a clearance "to the tower" has been received and the aircraft is 15 miles or less from the airport and clear of clouds, unless otherwise instructed. The clearance, "Cleared to Blank Tower", is also approval for approach subject to any restrictions or instructions contained in the clearance. This clearance, without any restrictions, is approval to make approach for a landing using whatever type of approach desired by the pilot.

Aircraft with Receiver Only: Remain tuned to the tower at all times when within the airport traffic zone. Acknowledge signals in the daytime by movement of ailerons or rudder on the ground and by rocking wings in the air, & at night by flashing landing light. Clearance from the tower should be received for taxiing, landing and taking-off; however, sufficient movement of the aircraft to attract the attention of the tower is permitted. If tower does not issue radio instructions, watch for light signals as the tower may not realize that the aircraft is equipped with a receiver.

Aircraft without Radio Equipment: Observe the tower for light signals, and acknowledge as above. The light signals are:

VISUAL SIGNALS FROM PORTABLE TRAFFIC SIGNAL LIGHT

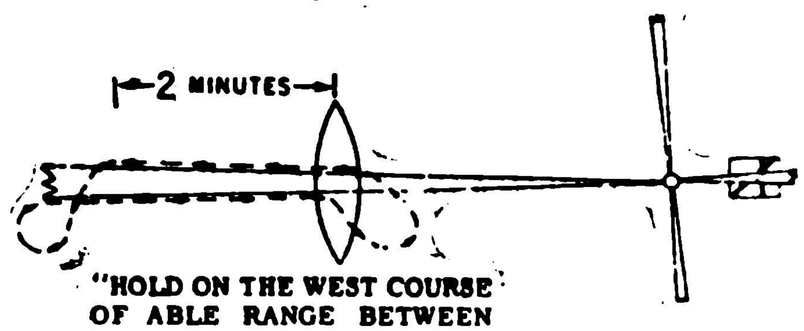
Color and Type of Signal	Taxi-ing	Ready for Take-off	In Flight
STEADY GREEN	XXXXXXXXXXXX	Cleared for Take-off	Cleared to Land
FLASHING GREEN	Continue Taxi-ing	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
STEADY RED	Stop	Clear the Runway Immediately, and Wait	Give Way to Other Aircraft and Continue Circling
FLASHING RED	Return to Hangar Line	Return to Hangar Line	Return and Land
ALTERNATING RED AND GREEN	General Warning Signal - Exercise Extreme Caution		

Traffic and Taxi Patterns have been established at busy airports to illustrate the desired flow of aircraft on the ground and in the air under specified wind conditions. If the traffic pattern is now known, follow other aircraft unless otherwise instructed.

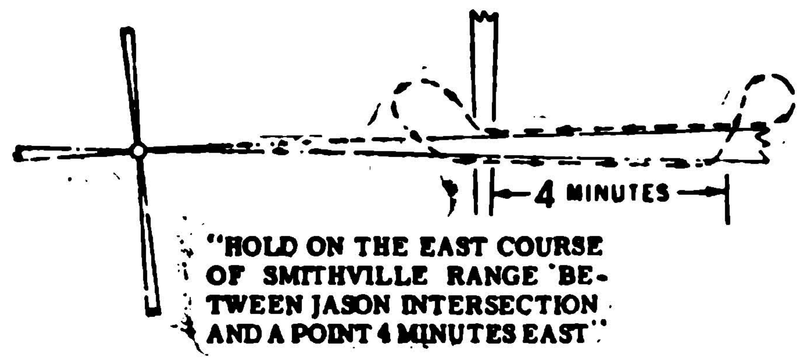
If a pilot does not receive either radio or visual signal from the tower when approaching for a landing, he should make at least one complete circle of the airport conforming to the traffic pattern, and then start approach for a landing. The pilot should be on the alert for a signal from the tower and maintain a watch for other aircraft.

HOLDING PROCEDURES FOLLOWED BY AIRCRAFT AT RADIO FIXES

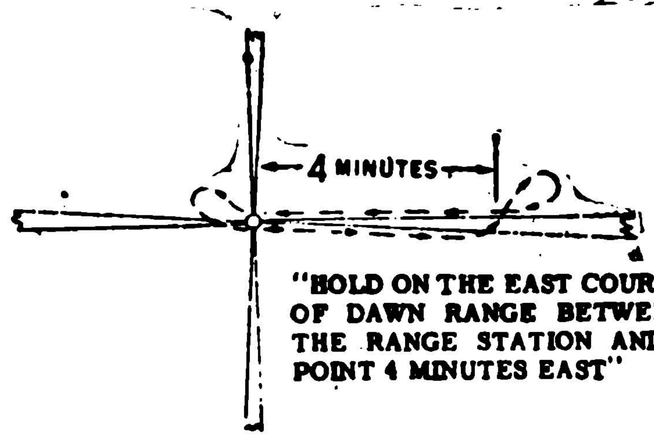
The standard holding flight path of an aircraft operating on an instrument flight rule flight plan and being held at a radio fix is to follow the right edge of the on-course signal of the specified leg of the appropriate radio range. The aircraft shall hold between the designated holding point and a point 4 minutes' flying time therefrom in the direction specified starting procedure turns at the holding point and a point 4 minutes therefrom. Unless prevented by obstructions or unless otherwise advised by an Airway Traffic Control Center or Civil Aeronautics Administration Airport Traffic Control Tower, the initial turn of a procedure turn shall be made to the left when flying away from the range station and to the right when flying toward the range station. The point to be used as the designated holding point will be identified in the traffic clearance which contains instructions for the aircraft to hold. When holding at an approach control marker, the holding flight path will extend from the specified holding point to a point not to exceed 2 minutes' flying time therefrom in the direction specified. When instructions are received giving the time of departure from the holding point, the pilot may adjust his flight path so as to be able to depart from the marker at the exact time specified.



"HOLD ON THE WEST COURSE OF ABLE RANGE BETWEEN BAKER FAN MARKER AND A POINT 2 MINUTES WEST"



"HOLD ON THE EAST COURSE OF SMITHVILLE RANGE BETWEEN JASON INTERSECTION AND A POINT 4 MINUTES EAST"



"HOLD ON THE EAST COURSE OF DAWN RANGE BETWEEN THE RANGE STATION AND A POINT 4 MINUTES EAST"

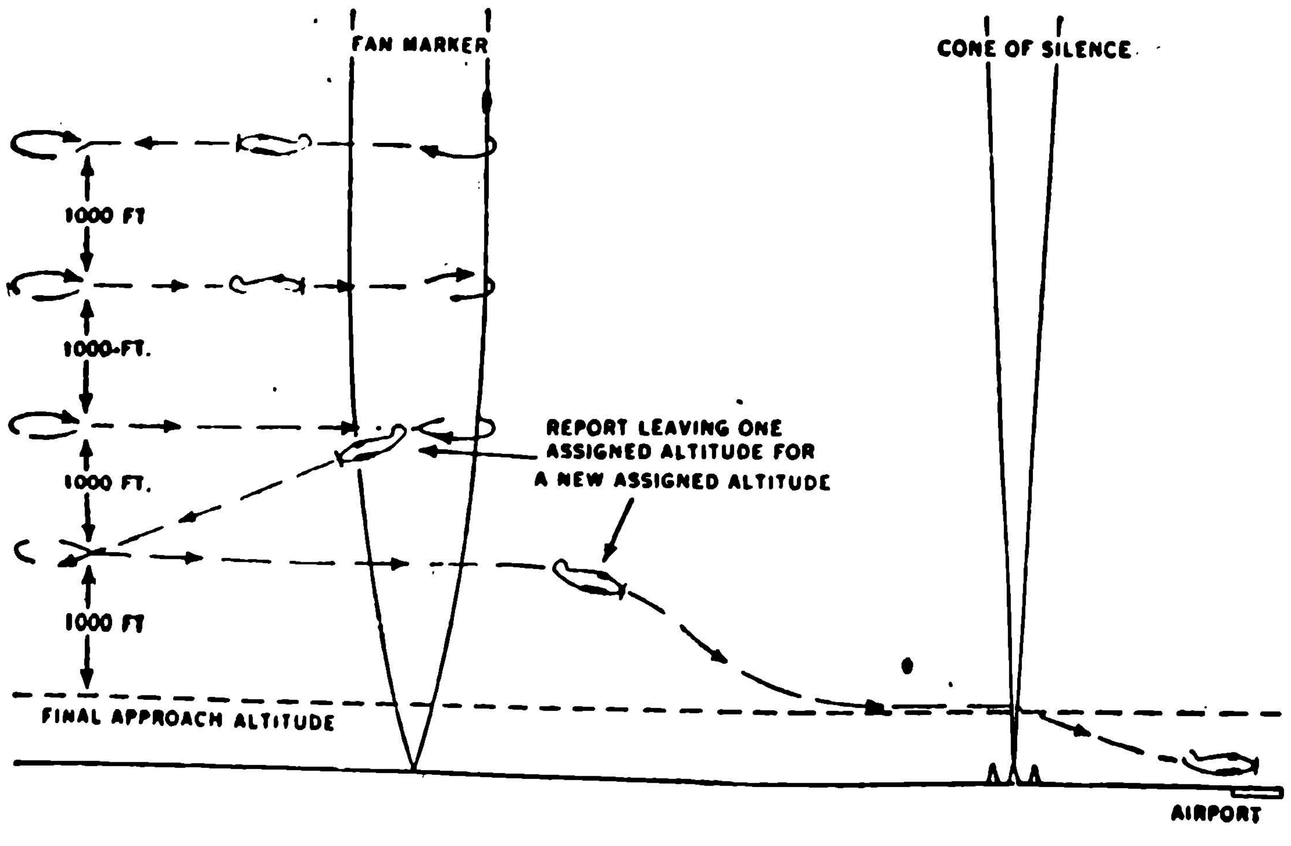
HANDLING OF CFR FLIGHT PLANS, AND ARRIVAL REPORTS

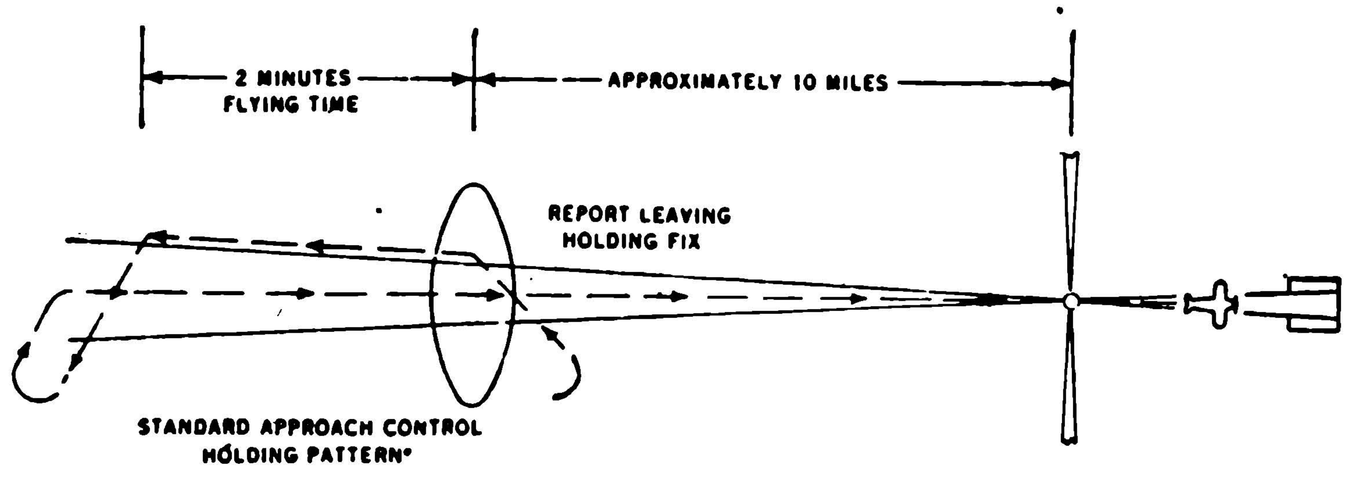
CFR flight plans may be filed with any CAA airways communication station or airway traffic control center. These flight plans are not transmitted to the point of destination but are held in suspense until notice of arrival is received. One hour after the estimated time of arrival, if no notice of arrival is received, queries are sent out over CAA communication systems to determine the location of the aircraft. If the arrival report is not received within three hours, search and rescue operations are initiated. Inasmuch as the Government may be put to considerable expense in determining the location of aircraft when an arrival report is not filed, it is vitally necessary that all pilots using this service make certain that notice of arrival is filed with the CAA communications station at the termination of the flight. Arrival reports are transmitted over CAA circuits to the station holding the flight plan.

In order to reduce radio congestion, pilots should file CFR flight plans, when required, in person or by telephoning the airways communication station or airway traffic control center. CAA control towers have discontinued accepting CFR flight plans for transmission and will not normally file arrival reports except upon the specific request of the pilot. Whenever practicable, however, it is desired that arrival reports be filed in the same manner as flight plans.

APPROACH CONTROL PROCEDURES

Approach control is a service whereby Civil Aeronautics Administration airport traffic control towers issue control instructions in instrument weather conditions, by communicating directly with pilots over the voice feature of a radio range, or over a very-high frequency channel of the control tower. Ordinarily, aircraft will be cleared by the airway traffic control center to the holding fix, (fan marker or other radio fix) with appropriate holding instructions. Instructions to hold "UNTIL FURTHER ADVISED BY (Name of) APPROACH CONTROL ON (Blank) KILOCYCLES" are included by the arwy traffic control center so that the pilot will know on which frequency he will receive further instructions from the tower. When he arrives over the holding point, the pilot initiates a call to "(Name of) APPROACH CONTROL" and advises time and altitude over the holding point, listening on the frequency specified in the ATC clearance for further instructions. Radio contacts required thereafter: (a) when vacating any previously assigned flight level for a newly assigned level; (b) when leaving holding point. Each pilot in an approach sequence will be given advance notice as to the time he should leave the holding marker on approach to the airport. When the time of leaving the holding point has been received, the pilot should shorten the standard holding path remaining in the immediate vicinity of the marker so as to leave the marker as closely as possible to the designated time. Pilots should maintain communication by listening to approach control frequency until cleared to the tower's local control frequency (278 kc. or equivalent). Departing aircraft will receive initial instructions on the tower's local control frequency. Approach Control is established at locations indicated as AC in the station class column on the data pages.





*NOTE: STANDARD 2 MINUTE HOLDING PATTERN FOLLOWED BY ALL AIRCRAFT HOLDING UNTIL INSTRUCTIONS ARE RECEIVED GIVING TIME OF DEPARTURE FROM HOLDING POINT. THEN PILOT SHORTENS HOLDING PATH. REMAINING IN IMMEDIATE VICINITY OF HOLDING POINT SO AS TO LEAVE MARKER EXACTLY AT SPECIFIED TIME.

AIR NAVIGATION RADIO AIDS

LEGEND

(3) - Station guards 3105, 4495, 6210 kcs.
(4) - Station guards 3105, 4495, 6210, 3117.5 kcs.
(7-24) - Hours of operation (7 a.m. to midnight) on a 24-hour clock basis
→ - New or revised data*

RADIO CLASS DESIGNATIONS

AC.....Approach Control Tower, CAA
B.....Scheduled Broadcast Station (broadcasts weather reports at 15 and 45 minutes after the hour)
C.....Control Tower, CAA
CA.....Control Tower, Army
CI.....Control Tower, (City, County, Private, etc.)
CN.....Control Tower, Navy
D.....Distantly controlled
FM.....VHF fan type marker (100 watts)
FMK.....Compass locator station when combined with fan marker
GCA.....Ground control approach system.
H.....Non-directional radio-beacon (homing), power 50, watts or more
ILS.....Instrument Landing System
IM.....VHF boundary marker
K.....Independent compass locator station
LFM.....VHF fan type marker, low powered (5 watts not over 10 miles from range)
MH.....Non-directional radio-beacon(homing), power less than 50 watts
ML.....Range (loop radiators), power less than 50 watts
MMK.....Compass locator station when combined with middle marker of Instrument Landing System
MRA.....Range (adcock, vertical radiators), power more than 50, less than 150 watts
MRL.....Range (loop radiators), power more than 50, less than 150 watts
OM.....VHF outer marker
OMK.....Compass locator when installed at outer marker site or within 5.5 miles of middle marker.
P.....Point to point radio
RA.....Range (adcock, vertical radiators) power 150 watts or more
RL.....Range (loop radiators), power 150 watts or more
S.....Simultaneous transmission of range signals and voice
T.....Teletype
TX.....Principal teletype
V.....Voice communication with aircraft
VAR.....Visual-aural VHF range
W.....Without voice facilities
Z.....VHF station location marker at a range station.

N.B. Variation is computed at the station. The distance from station to field is computed from the center of the range station to the nearest edge of the usable area of the airport. The bearing is that from the range station to airport or fan marker.

RADIOTELEGRAPH CODE

A-ABLE •–	D-DOG –••	G-GEORGE ––•	J-JIG •–––	M-MIKE ––	P-PETER •––•	S-SUGAR •••	V-VICTOR •••–	Y-YOKE –•––
B-BAKER –•••	E-EASY •	H-HOW ••••	K-KING –•–	N-NAN –•	Q-QUEEN ––•–	T-TARE –	W-WILLIAM •––	Z-ZEBRA ––••
C-CHARLIE –•–•	F-FOX ••–•	I-ITEM ••	L-LOVE •–••	O-OBOE –––	R-ROGER •–•	U-UNCLE ••–	X-XRAY –••–	

AIRWAY RADIO COMMUNICATIONS

GENERAL

All radio range stations (class RA, RL, MRA, MRL, ML) emit directional signals (type A2 emission) 1020 cycles per second modulation.

All radiobeacon stations (class H and MH) emit non-directional signals (type A2 emission 1020 cycles per second modulation. Unless otherwise noted, all stations, other than class MH, operate continuously within their assigned hours of service except during interruptions for voice transmission on the same frequencies where simultaneous transmission is not available and during shutdowns for maintenance purposes. Class MH stations operate on request unless otherwise cited. The effective range of an MH facility is ordinarily 25 miles.

Compass locators are low-powered nondirectional facilities operating in the 200-415 kc. band. They are installed near airports to make it easier for pilots to make instrument approaches. When holding is required, they also help the pilot follow a more precise holding pattern. Compass locators, however, should not be depended upon as long range navigational aids since they are rarely useful at distances of over 15 or 20 miles.

Voice communications facilities are available unless "W" (without voice) is included in the classification. Examples: SMRAW, MRLW, HW, HWT. Transmission of voice on a frequency other than the range frequency is indicated as MRLW-V. When no "W" is included in station class, the "V" indicates voice feature on two frequencies, namely, range frequency and, generally, V H.F. of 116.1 mcs.

The classification designation "B" denotes that the station broadcasts airway and meteorological information on a scheduled basis at 15 and 45 minutes past each hour.

All Civil Aeronautics Administration stations equipped for voice communications with aircraft stand continuous listening watches on the frequencies of 3105, 4495, and 6210 kcs., unless otherwise cited.

AUTOMATIC RANGE MONITORING SYSTEM

The automatic range monitoring system will automatically notify all pilots using a range on which it is installed, whenever an abnormal condition exists on the final approach course, the only course monitored at the present time.

The notification, or warning signal, will consist of the slow transmission of one group of three "U"s (. . – . . – . . –), between two station identification transmissions. This warning signal will be transmitted: (a) whenever a course displacement of 3° or more exists; (b) whenever a sudden and large loss of signal strength occurs; (c) or whenever an apparent on-course signal (loss of N-A keying, producing a monotone which sounds like an on-course signal) exists throughout all quadrants.

Loss of signal strength is obvious, and loss of N-A keying is easily ascertainable by the pilot whenever the three "U"s identify an abnormal condition. The flier should suspect course displacement upon hearing the warning signal, if there has been no drop in range signal strength and the interlocked N and A on-course signal is well defined. On the other hand, the loss of N-A keying is indicated by warning transmission once only, when normal identifications are also missing.

In the case of range course displacement, the greater the course displacement, the earlier in the period between station identification transmission will the "UUU" signal be heard. An occasional warning signal transmission not repeated in every cycle, followed by the normal identification, may be disregarded since it may be occasioned simply by momentary power fluctuations.

INSTRUMENT LANDING SYSTEMS

An Instrument Landing System comprises a localizer (possibly a glide path), and a boundary, middle, and outer marker. Infrequently, the middle or boundary marker is not commissioned at present and future installations will have no boundary markers. The entire system of transmitters (localizer, glide path, and markers) operate on V H.F. All markers operate on 75 mcs.

Compass locator stations, on the other hand, operate on the low frequency 200-415 kilocycle band. Compass locator data will be found under marker data on the second line of those stations having such facilities. These are, with rare exceptions, located at the same sites as the V.H.F. markers, and have single letter identifications.

The localizer course of the Instrument Landing System divides the blue sector (150 cycles), which is to the right of the course in respect to the landing aircraft on final approach, from the yellow sector (90 cycles), which is left.

* UNDER THE HEAVY BLACK LINE FOUND IN THE THE RADIO SECTION OF THE DATA PAGES ARE LISTED, OUT OF ALPHABETICAL ALIGNMENT, ALL THE NEW RADIO FACILITIES TABULATED AFTER THE TYPE FOR THAT PAGE HAD BEEN ORIGINALLY SET UP.

VHF RADIO RANGES

Simultaneous Visual-Aural VHF Radio Ranges have two visual and two aural courses with simultaneous voice transmission on the range frequency. A range of this type operates in the band 112 to 118 mcs. (Certain stations have been temporarily assigned the following frequencies: 108.3 mc, 108.7 mc, 109.1 mc.). Modulation frequencies of 90 cps and 150 cps are used to produce the visual courses. The sector in which the 90 cps modulation predominates is to be known as the "Yellow Sector" and that in which the 150 cps modulation predominates is to be known as the "Blue Sector" The aural courses are produced through the use of "N" and "A" signals with modulation frequency of 1020 cps.

VHF RADIO RANGE ORIENTATION: The assignment of the blue and yellow sectors and the "A" and "N" sectors of CAA VHF radio ranges is accomplished in accordance with the following rules:

(a) On Green and Red Airways, the blue sector lies north of the visual course, the yellow south; the "N" sector lies to the east of aural course; the "A" west.

(b) On Amber and Blue Airways, the blue sector lies west of the visual course, the yellow east; the "N" sector lies to the north of the aural course, the "A" south.

(c) The visual courses are projected along the airway, the aural courses across the airway.

U. S. WEATHER BROADCASTS AND TRANSMISSIONS

All continuously operated CAA Radio Range and Radio Beacon Stations having voice facilities on the Range or Radio Beacon Frequencies broadcast weather reports at 15 and 45 minutes past each hour.

At each station the material broadcast consists of the local weather report and the latest available surface weather reports from surrounding locations. Reports more than one hour old are not broadcast.

FILING OF "OVER" REPORTS

Pilots should make every effort to file "over" reports when passing over those points designated as "Radio Fixes" on the Radio Facilities Charts. Refer to Chart Legend.

Pilots of aircraft operating on contact flight rule flight plans who desire to make flight progress reports shall include in the report the phrase "CFR" flight plan from _____ to _____

Pilots of aircraft operating on instrument flight rule flight plans and who are required, therefore, to make flight progress reports, shall include in the report the phrase "Instrument flight plan". NOTE: The word "instrument", rather than the abbreviation "IFR" is used above to avoid confusion between the abbreviations "CFR" and "IFR" under difficult radio reception conditions.

RADIOTELEGRAPH CALLING PROCEDURE

Radiotelegraph (A2 emission), in addition to radiotelephone (A3 emission), may be used to call Civil Aeronautics Administration airway communications stations. Radiotelegraph (A1 emission) may be used, but its use will require a prearranged schedule since receivers at the stations are set for A2 and A3 emission only. The Civil Aeronautics Administration airway communication station will reply on the radio range voice channel except as otherwise provided. When calling Civil Aeronautics Administration airway communications stations, it is desired that the radio call letters of the station be used. However, the stations will be on the alert for calls consisting of the radio range identification (listed under "Station Identification"), which may be used after two calls by voice have not been answered by the Civil Aeronautics Administration airway communications station or when unusual circumstances prevail on during emergencies. For example: A pilot using the Richmond, Virginia, radio range who is unable to contact that station by voice, will radiotelegraph the following, using A2 emission: "RW RW RW K". Upon receipt of such a signal, the aircraft communicator at the Richmond radio range station will acknowledge on the voice channel of the radio range as follows: "UNIDENTIFIED AIRCRAFT CALLING RICHMOND RADIO OVER". The pilot then would resume use of voice for completion of the contact unless conditions require continuance of radiotelegraph. It is important that pilots use this procedure only after two unsuccessful attempts by voice to contact Civil Aeronautics Administration airway communications stations.

RADIOTELEPHONE (CALLING PROCEDURE).

When calling Civil Aeronautics Administration stations (except towers) or Army and Navy radio ranges, utilize the call "RADIO". When calling all airport control towers, be they Army, Navy, CAA, or municipal utilize the call "TOWER". When calling Army Airways, utilize the call "ARMY AIRWAYS". Examples:

(a) "Jacksonville Radio This Is Stinson 1234"..... .....When calling a radio range
(b) "Jacksonville Tower This Is Waco 4567"..... When calling a control tower
(c) "Jacksonville Army Airways This Is Army 725"..... When calling an Army Airways Communications Station
(d) "Langley Army Radio This Is Army 472"..... When calling an Army radio range

COMBINED UNITED STATES-BRITISH RADIOTELEPHONE (R/T PROCEDURE)

This new procedure has previously been adopted by the War and Navy Departments for use by military aircraft and became effective June 1, 1943, for use by Civil Aeronautics Administration airway communications stations and airport traffic control towers and civilian aircraft. Military pilots may secure complete information from Army publication FM24-9. The major changes in procedure are summarized below for the benefit of civilian pilots not having access to FM24-9.

1. Use of the words "THIS IS" instead of the word "FROM".
2. Use of the word "OVER", instead of the words "GO AHEAD", to indicate, " MY TRANSMISSION IS ENDED AND I EXPECT A RESPONSE FROM YOU".
3. Use of the word "OUT" when conversation is ended and no response is expected.
4. Use of the phrase "SAY AGAIN", instead of the word "REPEAT" when requesting a repetition.
5. Use of the phrase "I SAY AGAIN", instead of the phrase "I WILL REPEAT", when a repetition is being given.

Examples:

WACO ONE EIGHT ONE FOUR THREE, THIS IS CLEVELAND RADIO OR CLEVELAND TOWER MESSAGE FOR YOU (Optional) OVER

CLEVELAND RADIO or CLEVELAND TOWER. THIS IS WACO ONE FOUR THREE SEND YOUR MESSAGE (Optional) OVER

WACO ONE EIGHT-ONE FOUR THREE, THIS IS CLEVELAND RADIO or CLEVELAND TOWER (Message) OVER

CLEVELAND RADIO or CLEVELAND TOWER, THIS IS WACO ONE EIGHT ONE FOUR THREE ROGER OUT.

Pertinent parts of all current publications, including Manual 60, are superseded insofar as communications procedures are concerned by the new procedure indicated above effective June 1, 1943.

AIRPORT DATA

LEGEND.

NAME

(When city and airport names are identical, the airport name is omitted in the interest of space-conservation)

(A) Airport owned or leased in whole or in part by Army
(CG) Airport owned or leased in whole or in part by Coast Guard
(N) Airport owned or leased in whole or in part by Navy
★ CAA Intermediate Field
(P) Non-military airport available for use by military aircraft (See Note 3)

N.B. If the airport name is followed by (A) for Army, (N) for Navy, or (CG) for Coast Guard, the field is exclusively an Army, Navy, or Coast Guard field. If the field is not exclusively Army, Navy or Coast Guard and may be used by civilians, no (A), (N), or (CG) follows the airport name.

SIZE — CLASS

40: Length of longest landing strip (unpaved) in hundreds of feet
40h: Length of longest hard-surfaced runway in hundreds of feet (Seaplane landing areas over 5 miles in length are classified as unlimited and indicated as "unl.").

N.B. Only the length of the longest runway is cited, and its direction is not indicated. Space restrictions occasioned this policy, but logic justified it. The logical assumption may be made that runways have been laid out in accordance with the local wind rose. Therefore, in all calms, or gentle-angling winds, or winds aligned with the longest runway, the longest runway will be used. When a wind not aligned with the longest runway is of such intensity that the longest runway cannot be used, this wind makes the use of runway aligned with the wind, even though much shorter than the longest runway, sufficiently long from a safety viewpoint Too, prior knowledge that there is, for example, a NW SE runway is of little value to a pilot if, when he arrives over the field the wind is blowing too strongly from another direction to use that runway. Finally, the larger the number indicating the longest runway length, the greater is the assurance of a sufficient number of runways for all-wind coverage

RADIO

R1. Voice availability via tower, range (or homing device), or voice station.
R2: Range (or homing device), and tower
R3: Range (or homing device), tower, and instrument landing system.

LIGHTS.

L: Incomplete lighting, either flood or portable rnwy lights.
L1: Beacon only
L2: Beacon and boundary.
L3: Beacon, boundary, and obstruction.
L4: Beacon, boundary, obstruction, and flodd.
L5: Beacon, boundary, obstruction, flood, and runway contact
L6: Beacon, boundary, obstruction, flood, rnway contact, and instrument approach.

(The class always indicates the highest element available but does not necessarily include all intermediate elements)

SERVICING

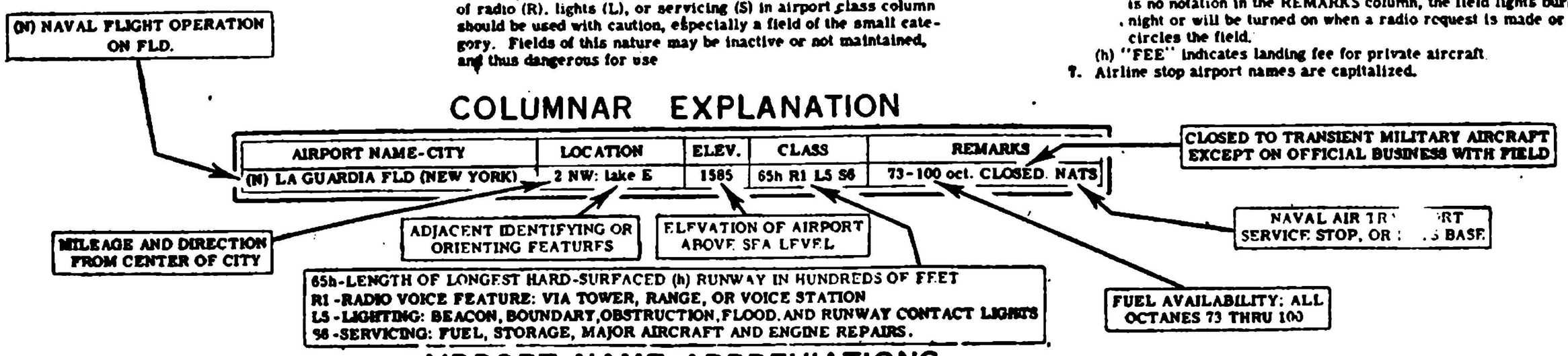
S1: Fuel.
S2: Fuel, storage.
S3: Fuel, storage, minor aircraft repairs.
S4: Fuel, storage, minor aircraft, and minor engine repairs.
S5: Fuel, storage, major aircraft, and minor engine repairs.
S6: Fuel, storage, major aircraft, and major engine repairs

N B Very often small civilian fields (particularly in non-metropolita. areas) will have no full-time attendant. Frequently servicing at such fields in isolated communities is available only by circling the town to attract the operator's attention
These fields are often recognizable by airport class, comparable to, for example, "1S S1" "1S S1" suggests that the field is not too large, and that the field may not have a full-time attendant even though fuel is stored there.
Lack of radio or lighting facilities, indicated by the absence of an "R" or "L" in the airport class, is a further indication that a full-time attendant may not be available Absence of an "S" (servicing) indicates definitely that fuel, if available at all, is available only by truck from town. Any field carrying no indication of radio (R), lights (L), or servicing (S) in airport class column should be used with caution, especially a field of the small category. Fields of this nature may be inactive or not maintained, and thus dangerous for use

NOTES

1. "(NC)" not charted. Indicates not charted because of insufficient data or inability to verify
2. ➔ New or revised data.*
3. "(P)" in CITY-AIRPORT NAME column indicates (1) those municipal airports improved with public funds and covered by an agreement between the municipality and the United States Government permitting government planes to use such fields in common with others and without charge, to the extent possible without restriction of non-military operations or (2) other civil airports for which legal permits covering their limited use by military aircraft have been procured and filed with the real estate agency of the War Department.
4. ★ "Effingham Int., 10, LS-IL" in CITY-AIRPORT NAME column indicates that the airport is Effingham CAA Intermediate Field, Site 10, on the St. Louis-Indianapolis Airway Municipal airports where the lights are maintained by the CAA are listed similarly except that there is no prefixed star or "Int."
5. In location column, the word "miles" has been eliminated because of space limitations. Mileage is that from the center of city to airport.
6. In Remarks column.
   (a) "91 oct." indicates octane rating of fuel available.
   (b) "CLOSED" indicates closed to all transient military aircraft, except on official business this station or in emergency.
   (c) "Port B-2 lights" indicates cone-mounted lights outlining runways. These lights are portable and may be shifted from runway to runway.
   (d) "INACTIVE" indicates field is on temporarily inactive status as regards military use and that Army or Navy facilities have been discontinued. Use of Army fields in this status is to be as indicated by Special Notice on first page of the Notices to Airmen section, and in notices published under heading of field. Use of Navy fields is indicated under field heading.
   (e) "PRIVATE" indicates field is available for owner only, and not to be used by others except in emergency.
   (f) OBSTRUCTIONS. Because of space limitations only the more dangerous obstructions are indicated. Natural obstructions, like trees, clearly discernible for contact operations, are frequently omitted, for example On the other hand, all pole lines are cited.
   (g) "Fld. lgts on prior req." indicates field light are available only by previous phone call, telegram, or letter It must be remembered that most fields do not have 24-hour operation. Accordingly, the field lights, indicated for such a lighted field (and, in some instances, even the rotating beacons) are available only by prior request. When an airport classification indicates a lighted field, and there is no notation in the REMARKS column, the field lights burn all night or will be turned on when a radio request is made or a plane circles the field.
   (h) "FEE" indicates landing fee for private aircraft.
7. Airline stop airport names are capitalized.

COLUMNAR EXPLANATION



AIRPORT NAME ABBREVIATIONS

(A)	Army Field	(N)	Navy Field	LTA	Lighter than Air	NAS	Naval Air Station
AAB	Army Air Base	NAAF	Naval Aux. Air Facility	MCAS	Marine Corps Air Station	NPG	Naval Proving Grounds
AAF	Army Air Field	NAAS	Naval Aux. Air Station	MCAAF	Marine Corps Aux. Air Facility	OLF	Outlying Field (Navy)
CGAS	Coast Guard Air Station	NAF	Naval Air Facility	MCGB	Marine Corps Glider Base		

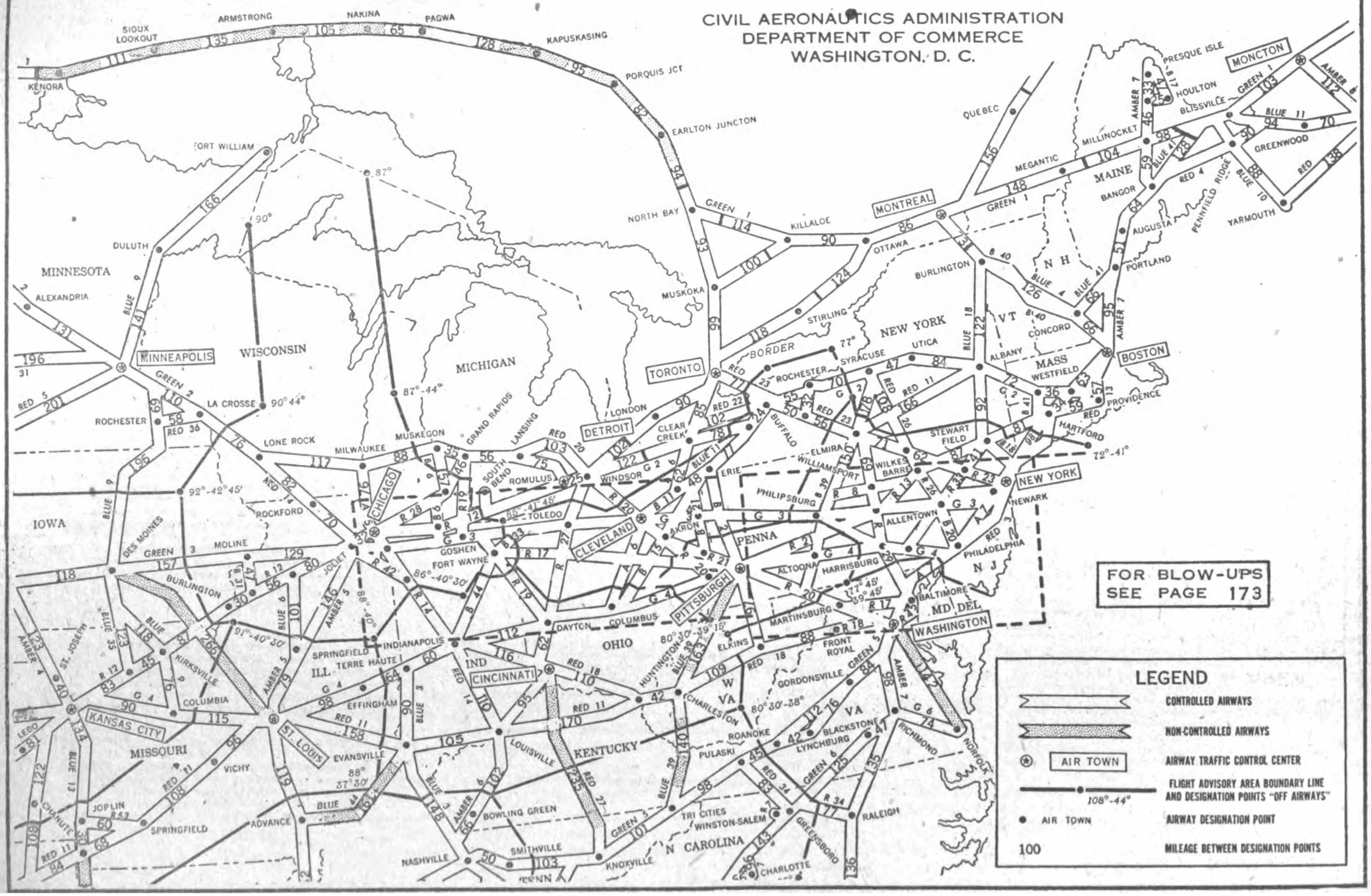
* UNDER THE HEAVY BLACK LINE FOUND IN THE AIRPORT SECTION OF THE DATA PAGES ARE LISTED OUT OF ALPHABETICAL ALIGNMENT, ALL THE NEW AIRPORTS TABULATED AFTER THE TYPE FOR THAT PAGE HAD BEEN ORIGINALLY SET UP

NORTH EAST QUADRANT

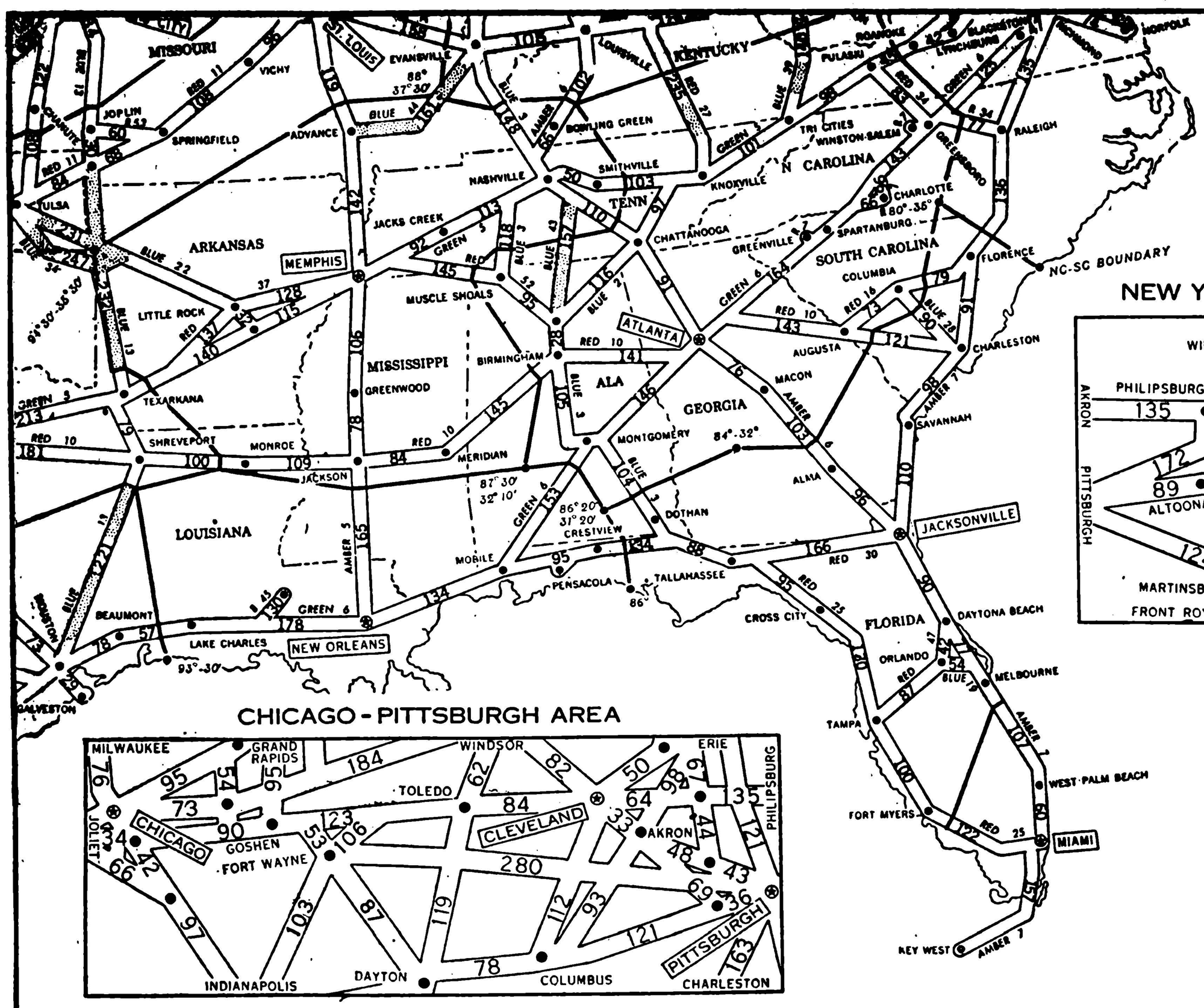
CIVIL AIRWAYS AND MILEAGE CHART

INCLUDING UNITED STATES AND CANADIAN FLIGHT ADVISORY AND TRAFFIC CONTROL AREAS

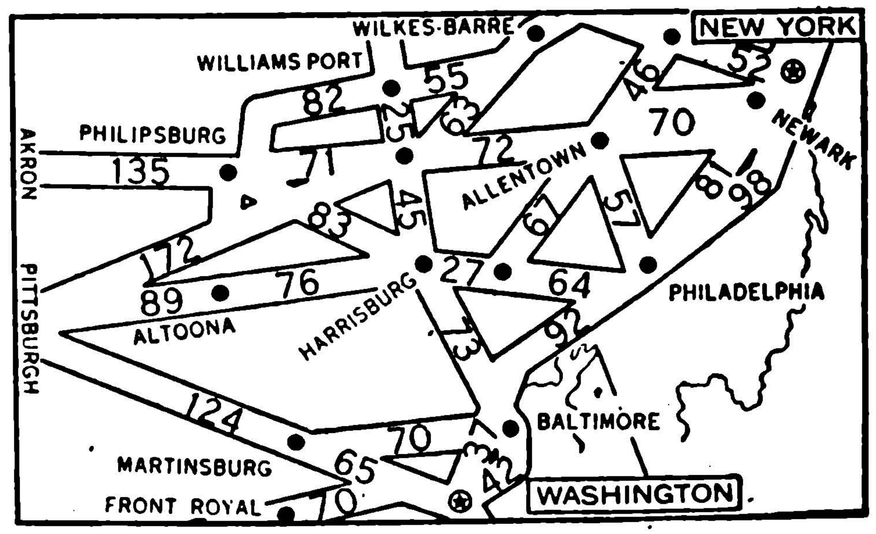
CIVIL AERONAUTICS ADMINISTRATION
DEPARTMENT OF COMMERCE
WASHINGTON, D. C.



SOUTH EAST QUADRANT



NEW YORK - WASHINGTON AREA



CHICAGO - PITTSBURGH AREA

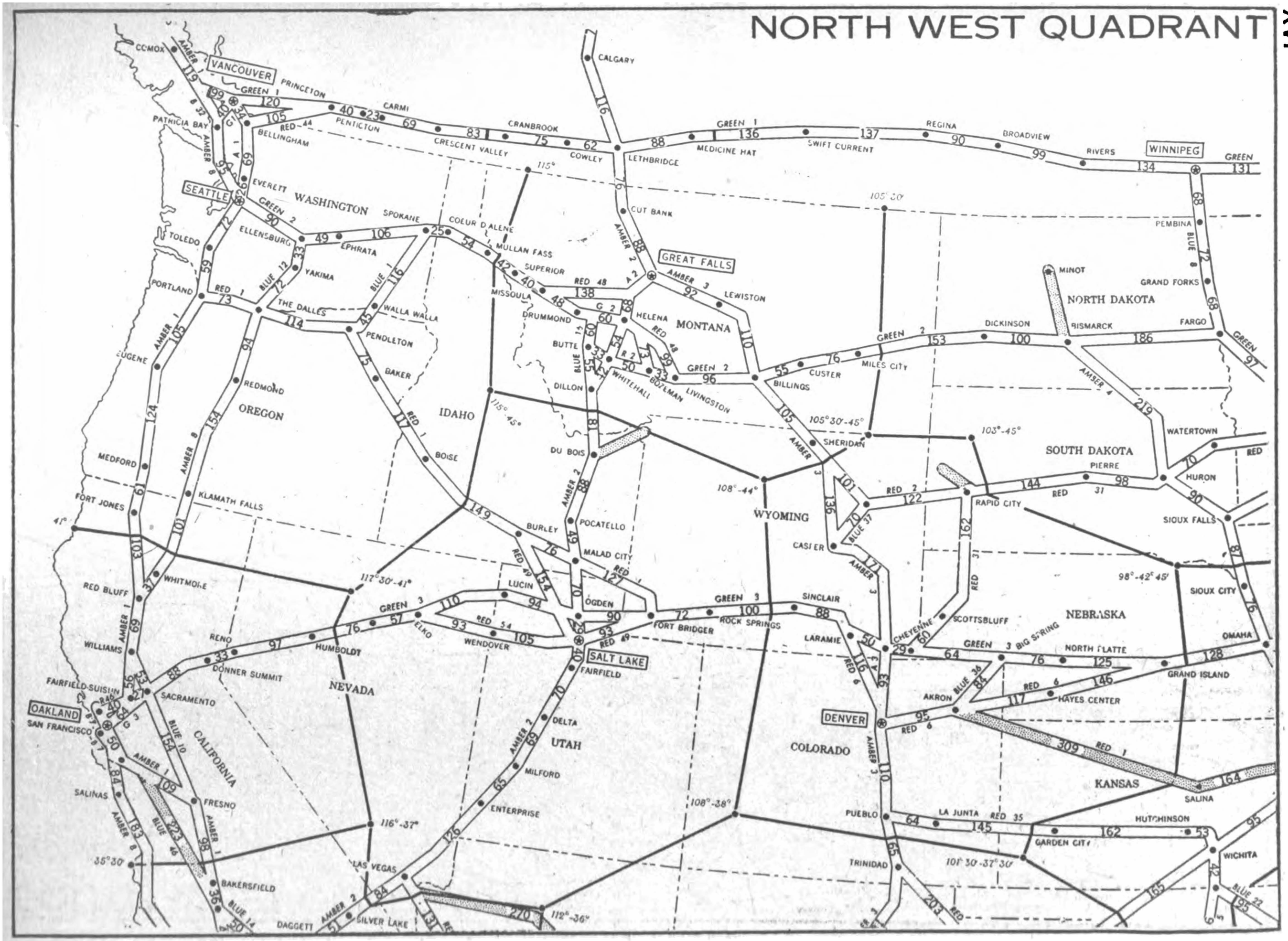
ARMY FLIGHT ADVISORY AREAS

OLMSTED FIELD ENCOMPASSES BOSTON, NEW YORK, PITTSBURGH, & WASHINGTON C.A.A. AREAS
MacDILL FIELD ENCOMPASSES: JACKSONVILLE, & MIAMI C.A.A. AREAS
WRIGHT FIELD ENCOMPASSES: DETROIT, CLEVELAND, CINCINNATI, ST. LOUIS, & CHICAGO C.A.A. AREAS
MAXWELL FIELD ENCOMPASSES: MEMPHIS, NEW ORLEANS, & ATLANTA C.A.A. AREAS
LOWRY FIELD ENCOMPASSES: DENVER, MINNEAPOLIS, & KANSAS CITY C.A.A. AREAS
FORT WORTH ENCOMPASSES: SAN ANTONIO, & FORT WORTH C.A.A. AREAS
McCHORD FIELD ENCOMPASSES: SEATTLE, & GREAT FALLS C.A.A. AREAS
HAMILTON FIELD ENCOMPASSES: OAKLAND, & SALT LAKE CITY C.A.A. AREAS
MARCH FIELD ENCOMPASSES: LOS ANGELES, ALBUQUERQUE, & EL PASO C.A.A. AREAS

FLIGHT LEVELS

GREEN AND RED CIVIL AIRWAYS
EASTBOUND - ODD THOUSAND FOOT LEVELS
WESTBOUND - EVEN THOUSAND FOOT LEVELS
AMBER AND BLUE CIVIL AIRWAYS
NORTHBOUND - ODD THOUSAND FOOT LEVELS
SOUTHBOUND - EVEN THOUSAND FOOT LEVELS

NORTH WEST QUADRANT



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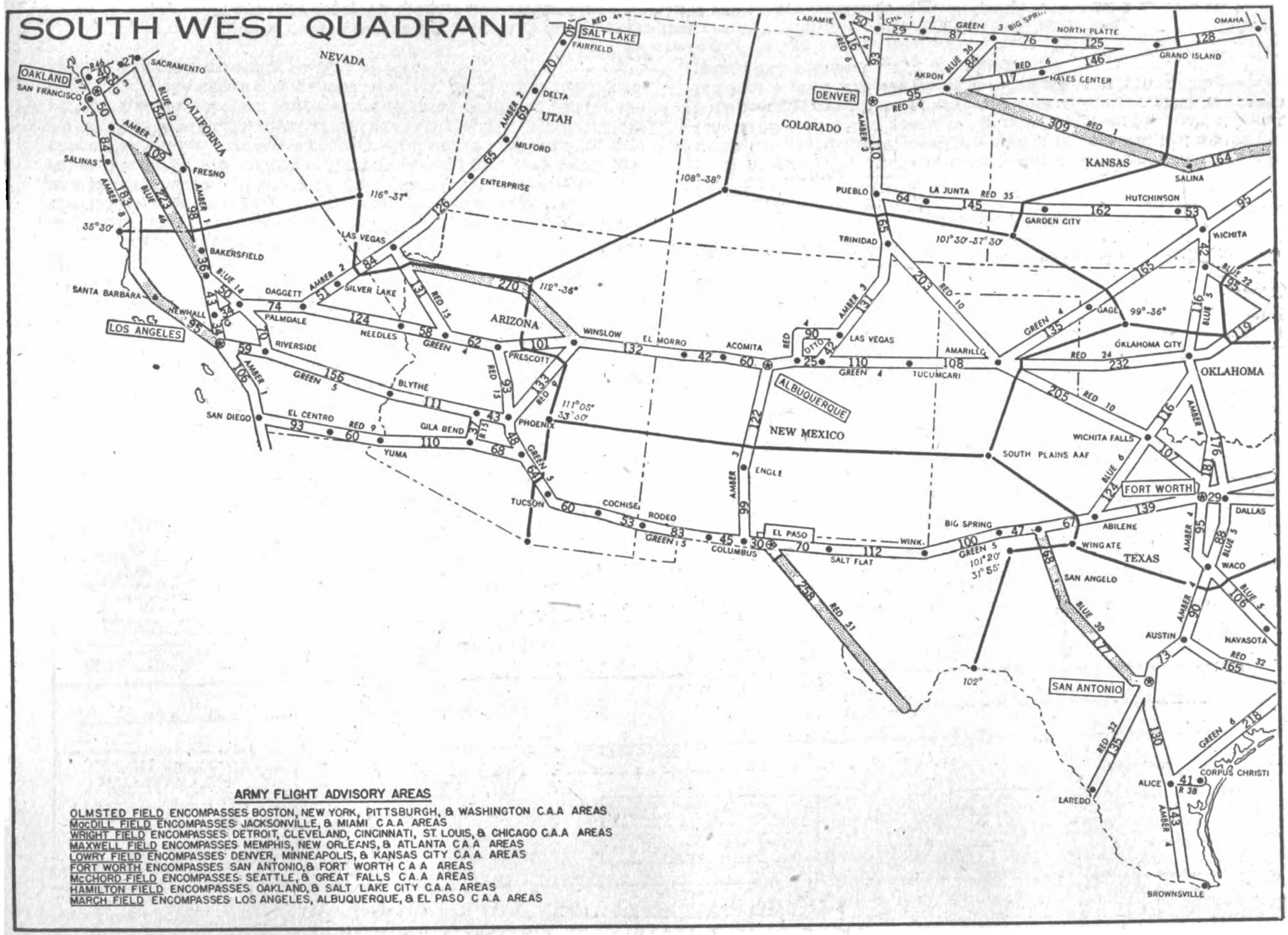

ARMY FLIGHT ADVISORY AREAS

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HAMILTON FIELD ENCOMPASSES OAKLAND, & SALT LAKE CITY C.A.A. AREAS
MARCH FIELD ENCOMPASSES LOS ANGELES, ALBUQUERQUE, & EL PASO C.A.A. AREAS

FLIGHT PLANNING CHARTS

LEGEND

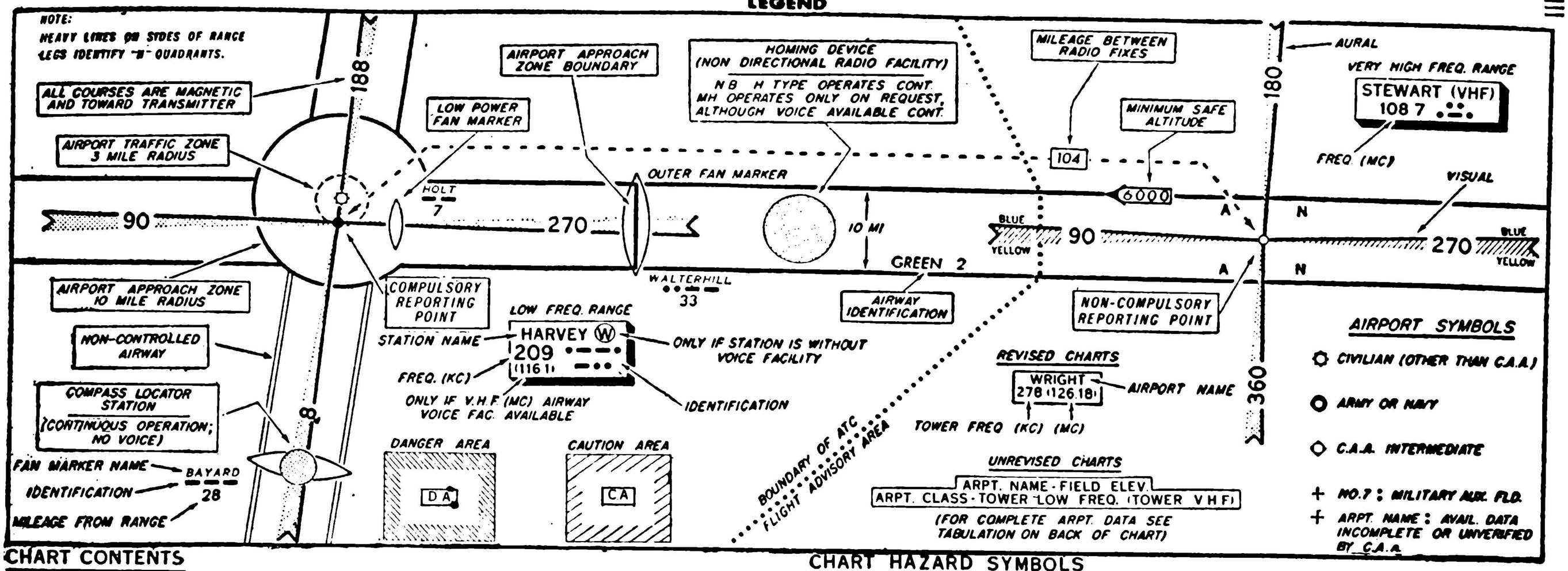


CHART CONTENTS

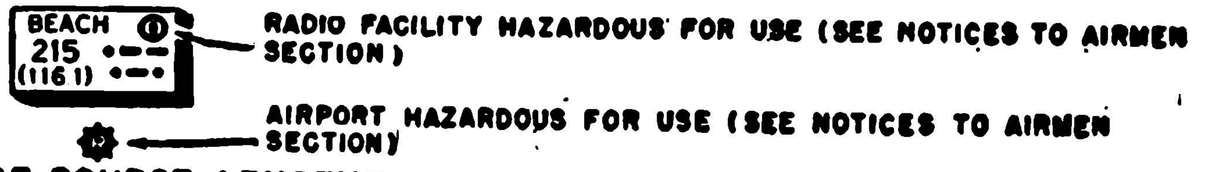
The Flight Planning Charts, in addition to the warning (R) and caution (O) symbols, indicate: (1) all aeronautical radio facilities except air carrier stations; (2) all minimum safe altitudes and fix mileages; (3) all Army and Navy fields and CAA intermediate fields, and all active civilian airports; (4) all danger and caution areas; (5) all designated airways. These charts indicate all facilities, and the current status thereof, on record with the CAA as of 0001 E.S.T. each alternate Tuesday.

CHART PURPOSE & USE

The primary purpose of these charts is to facilitate the planning and execution of cross-country flights. The user should check the charts for the symboled (R) or (O) items between his point of departure and his destination. If there is none, there is no necessity for him to read the Notices to Airmen section as far as temporary items are concerned. As for permanent changes - all major ones, such as new fields, abandoned fields, range frequency changes, etc., are currently reflected on the charts. For record-keeping purposes and for the correction of charts and publications, however, the Notices to Airmen section should be carefully read.

CHART HAZARD SYMBOLS

The current status of facilities and hazards as reported to the CAA is indicated by the symbol system. An airport closed because of construction, an inoperative range, a revised range quadrant identification or range frequency, or course realignment of 20° or more, for example, are indicated by the symbol (R) for red, or warning. An airport under construction but usable, or an inoperative control tower, on the other hand, is indicated by the symbol (O) for orange, or caution.



RANGE COURSE LENGTHS

In general, the length of radio range courses shown herein indicates the approximate location where it is expected that a pilot will tune from one radio range to the next one along his route of flight. Such change-over points, however, are not mandatory, and it is expected that a pilot will use his best judgment in selecting change-over points that will best serve his needs.

Warning

Radio range courses are subject to disturbances that result in multiple courses, and signal fades and surges over rough country. Pilots flying over unfamiliar routes are cautioned to be on the alert to detect these vagaries, particularly over mountainous terrain.

RADIO

OREGON

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BAY OCEAN FM (Navy)	(- - - -)	FM, 303°,7.5	Tillamook NAS
EUGENE (Mahlon Sweet)	251 (EU)	SBRAZ-DT,150°,4.5	(4)
PORTLAND (AAB)	332 (PD)	SBRAZ-DT,171°,3.1	(3)
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
REDMOND (Roberts)	368 (RG)	SBRAZ-DT 101°,4.3	(4)
THE DALLES	230 (ND)	SBRAZ-DT,251°,2.8	(4)
TILLAMOOK (Navy)	520 (NFS)	BMRLZ	3105,4495
Tillamook NAS	278 (142.74)	CN, 123°, 2.5	(3); 142.74 (8-1630)
WILLAMETTE FM	(- - - -)	FM, 76°, 20.6	Portland
WASHINGTON			
BELLINGHAM	209 (J I)	SBRAZ-DT,114°,3.3	(4)
CAMANO ISL. FM (Navy)	(- -)	FM,123°, 9	Whidbey Island NAS
DUNGENESS FM.	(- - - -)	FM, 296°, 62	Seattle
EASTON (Int.)	278 (TP)	MHT	(4)
ELLENSBURG (Bowers)	385 (EB)	SBMRAZ-DT,270°,2	(4)
EVERETT (Paine)	224 (MI)	BMRL Z-DT,330°,3.1	(4);116.1
HOBART FM	(- -)	FM, 88°,15	Seattle
KELSO	266 (HP)	MHT	(4)
LAKEVIEW FM	(- - -)	FM, 175°,25.5	Seattle
McCHORD,(Tacoma)(Army)	272 (DTA)	BMRL; 26°, 1.7	
MONROE FM	(-)	FM, 5°, 30	Seattle
MOUNT VERNON OLF(NC)	3295 (126.18) (142.74)	CN	3105,4495;126.18,142.74 (24 hrs adv notice only)
NEAH BAY	362 (KQ)	SRAWZ	
PORT ANGELES CGAS	3295 (142.74)	CN	3105,4495,142.74 (8-1630)
SEATTLE (King County)	260 (SA)(116.1)	SBRAZ-VDTX,296°,3.3	(3);116.1
STEVENSON	347 (LZ)	MHT	(4)
TOLEDO (Int.)	239 (GL)	BMRLZ-DT,236°,3	(4)
WASHOUGAL FM	(-)	FM, 63°,17.5	Portland, Oregon
WHIDBEY ISLAND (Navy)	353 (NUW)	BMRLZ	(3)
Whidbey Island NAS	278 (142.74) (126.18)	CN, 303°,3.5	(3);142.74,126.18.Tr.and gds 116.1,140.58 req.(GCA)
WHIDBEY ISL. NAS (Navy)	522(K)	MR	(4) Cont.
Whidbey Island NAS (Seaplane)	2870 (142.74)	CN	(3),3155;142.74 (24 hrs advance notice)
WOODLAND FM	(- - - -)	FM, 331°,23	Portland, Oregon
YAKIMA	320 (YA)(116.1)	BMRLZ-VDT	(3); 116.1
Yakima County Arpt.	278 (118.5)	C;267°,4.7	(4);118.5,131.9,142.74

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs ; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

OREGON

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Adams (Silverton)	1.2 NW;RR E	210	33	Brush N.
Albany	2.5 NE;RR NW	235	26 S6	80 oct.Poles W, SW.
★ Arlington Int,12B,PD-SM	1.4 ENE; riv NW	872	50 L3	
Bend (new)	5.5 ENE;hwy S	3306	40 S6	80 oct.Pwrline SE.Use strips.
Bend (old) (NC)	7.8 N; hwy E	3350	44	Poleline W, NW.
(P) Clatsop Co.(Astoria)	3.5 W;riv E	10	57h	
Coastway School of Aeronautics (Tillamook)	1.4 E;hwy W	55	29 S2	80 oct.
Corvallis	4.9 SSW; RR E	235	52h S6	80,91 oct.
Corvallis Junction	1.3 NNE;RR W	240	20 S6	80, 91 oct.No sto.
Dallas (new)	1.2 N;RR S	400	23 S1	80 oct. Poles WSW
Dallas (old)(NC)	1.6 E;RR S	300	23	UNUSABLE;Under cultivation.
Eugene Airpark	1.6 SW;rd W	420	28 S6	73,80 oct.
Harrisburg	2 NNE; RR E; W	300	25 S1	80 oct
Hood River	2.5 S;riv E	605	19 S1	Ltd fuel,lgt acft only
Langmack (Sweet Home)	2 E;hwy N	550	24 S1	80 oct. Poles W
Lebanon	1.3 SW;RR E	340	21 S4	80 oct.
(A) Madras	2 NNW;RR SE	2420	74h	
MAHLON SWEET(Eugene)	8 NW; RR NE	365	52h R1 L5	

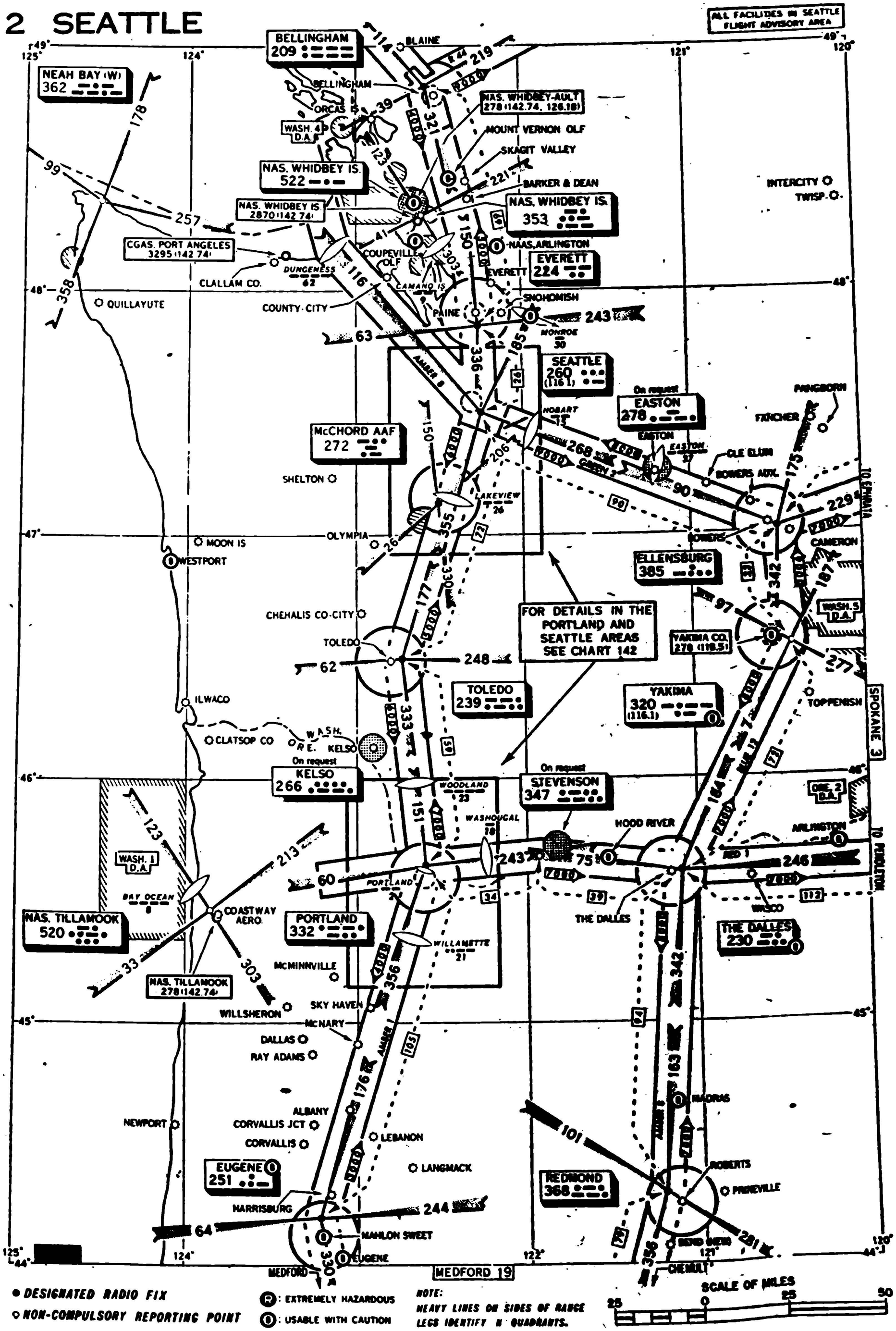
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii) (NC)-Not charted.

OREGON

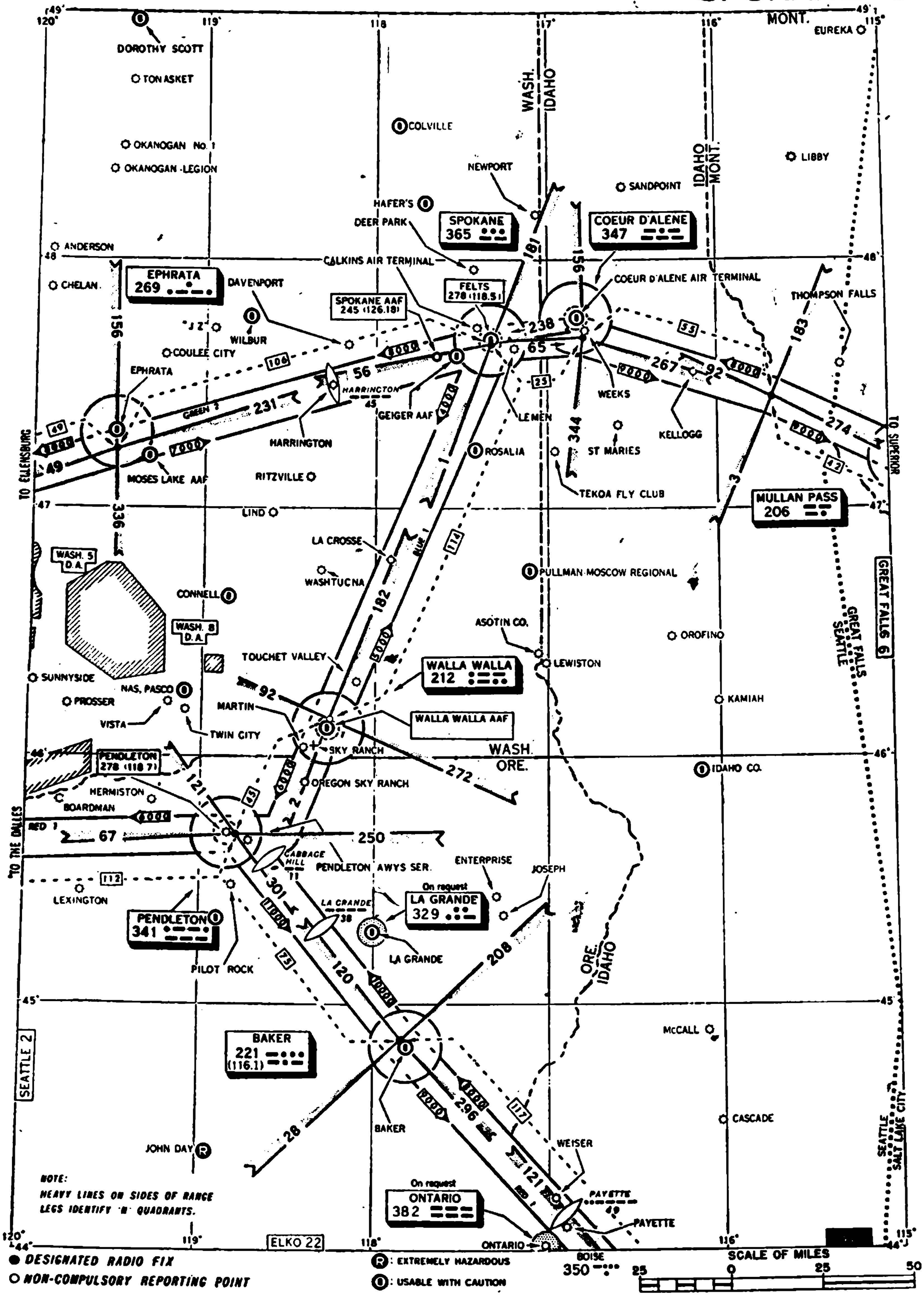
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
McMinnville	3.1 ESE;hwy W	156	50h S4	80,91 oct.
McNARY (Salem)	2.2 SSE;RR SW	207	55h L5 S4	80 oct.;91 oct.emerg.No sto
(P) Newport	4 S;ocean W	160	51h L5 S4	80 oct, No sto, lgts on req.
Prineville	2.9 SW;hwy SW	3240	37 S6	80 oct.
Ray Adams (Monmouth)	2.2 NNW;RR E	195	23 S1	80 oct.Cattle on fld.
(P) Roberts (Redmond)	1.5 SE;hwy N	3064	70h R1 S2	80 oct.
Santiam Junction Flgt Strip (Idanha) (NC)	21.5 SSE;hwys N	4000	30	Trees W,E.
Sky Haven (Brooks)	1.6 NE;RR W	180	17 S1	Ltd 80 oct.
The Dalles	1.7 NE	239	51h R1 L5 S6	80,91 oct.
(N) Tillamook NAS (N)	3 SE; riv N	35	50h R2 L5 S4	91 oct.Used by LTA;HTA.
Vernonia (NC)	2.4 WSW;riv S	620	29	
Wasco	0.4 E;RR SW	1420	18 S1	Ltd 80 oct.
Willsheron(Sheridan)	2.1 SSW;RR NNE	275	15 S1	80 oct.
WASHINGTON				
(N) Arlington NAAS (N)	3 SW;hwy W	129	50h	INACTIVE.
Barker & Dean (Mt. Vernon)	2.2 S;RR,riv W	4	20 S4	73,80 oct.No sto.Trees NW.
BELLINGHAM	4.5 NW;hwy E	158	50h R1 L5 S4	73 oct. No sto.Fld lgts prior req.ARPT OF ENTRY
Blaine	0.5 E;RR W	15	18 S1	80 oct.
(P) Bowers (Ellensburg)	2.5 NE;hwy S	1767	59h R1 L5 S6	80 oct.Ctc lgts prior req.
Bowers Aux.(Ellensburg)	8.6 NNW	2140	30	
Cameron (Kittitas)	0.5 N;RR S	1650	26 S2	80 oct.
(P) Chehalis Co.-City	0.6 NW;RR E	174	50h S6	80 oct.No sto.
Clallam County (Port Angeles)	2.9 WNW;RR NW	290	52h S2	80 oct.
Cle Elum	2.4 E;hwy S	1930	25 S4	80 oct.
County-City (Port Townsend)	5 SSW	110	33 S4	80 oct.Pole lines ESE,WNW ARPT OF ENTRY.
(N) Coupeville OLF (N)	2 SE	199	54h	
★ Easton Int,5B,SA-HL	1.7 NNW;RR SW	2221	30 R1 L2	Trees, mtns WNW.
Everett	2.7 NNE;riv N	15	21 S4	80 oct, 30' hangar W.
Fancher (Wenatchee)	2.5 NE;riv W	1440	33h L3 S6	80 oct,Fld lgts prior req.
Forks (NC)	1 SW;rd S	286	23	75' trees E.HAZARDOUS.
Goldendale (NC)	0.6 SE;RR W	1600	20	Poleline E,SE.Ditch center
Ilwaco	1.5 ENE;riv S	8	20 S2	80 oct. HAZARDOUS
Intercity,USFS (Winthrop	4 SSE;riv SW	1650	32 S1	73,91 oct,Mtns SE.
Kelso,61A,SF-SA	1.4 S;RR SW	25	29 R1 L2 S6	80 oct.Poles,trees NW.
Kenmore, (Botnell) (NC)	2.3 NW;rd E	420	17	12-14 brush NNE,SSW.
(P) Moon Island (Aberdeen)	6 W;harb, N,S	14	50h L5 S6	80,91 oct.
(N) Mt.Vernon OLF (N)	5 NW;RR S	146	53h R1	Pole line N,CLOSED
Olympia	4.5 S;hwy E	190	50h S4	80 oct.Trees W.
Orcas Island (E.Sound)	0.7 N;hwy E	25	12 S1	73,91 oct
Paine (Everett)	6.5 SW;hwy NE	598	65h R1 L5 S6	80 oct.Fld lgts prior req.
PANGBORN(Wenatchee)	5.3 ESE;hwy S	1246	46h L5	Contact lgts prior req.
Pasayten,USFS (Winthrop)(NC)	38 NW;riv E	4250	28	Use in emerg.only, to public lgts prior req.
(CG) Port Angeles CGAS(CG)	2 NNE	13	45h R1 L5 S1	91,100 oct,No bcn.
Randle,USFS (NC)	1 ESE;riv S	940	13	Pwr line WSW,Cattle on fld.
Quillayute	0.7 NNW;8 W Forks	195	50h	
Shelton	2.5 NW;hwy ENE	278	52h	Tower NW.
Skagit Valley Air Svc. (Burlington)	0.7 S;RR E	35	20 S1	80 oct,Stack N.
Snohomish	0.9 SW;RR N	16	33 S6	80 oct,Poles,trees ESE.
Snoqualmie Pass (North Bend)(NC)	3.5 ESE;hwy S	680	24	Trees WNW,ESE.
★ Toledo Int,63B,SF-SA	3 NE;riv S	371	50h R1 L3	
Toppenish	3.2 SSW;hwy E	835	32 S5	80 oct.
Twisp	1.9 SE;riv S	1620	19 S1	80 oct,Trees,hills WNW.
Westport (NC)	0.5 N;harbor E	5	18 S1	80 oct.
(N) Whidbey Island NAS	3 NW Oak Harbor	24	70h R2 L6 S2	91,100 oct. (N)
YAKIMA COUNTY	2.8 SSW	1058	50h R2 L5 S6	73,80,100 oct.Poleline S.

→ New or revised data

2 SEATTLE


ALL FACILITIES IN SEATTLE FLIGHT ADVISORY AREA
BELLINGHAM 209
BLAINE
NEAH BAY (W) 362
BELLINGHAM
ORCAS
WASH. 4 D.A.
NAS. WHIDBEY-AULT 278 (142.74, 126.18)
MOUNT VERNON OLF
SKAGIT VALLEY
NAS. WHIDBEY IS. 522
BARKER & DEAN
NAS. WHIDBEY IS. 353
NAS. WHIDBEY IS 287 (142.74)
INTERCITY
TWISP
CGAS. PORT ANGELES 329 (142.74)
DUNGENESS 62
CLALLAM CO.
COUPEVILLE OLF
NAAS, ARLINGTON
EVERETT 224
EVERETT
QUILLAYUTE
COUNTY-CITY
CAMANO IS
SNOHOMISH
PAINE
MONROE 30
SEATTLE 260 (116.1)
McCHORD AAF 272
SHELTON
EASTON 278
EASTON
EASTON 37
HOBART
CLE ELUM
BOWERS ADK.
FANCHER
PANGBORN
LAKEVIEW 26
MOON IS
WESTPORT
OLYMPIA
BOWERS
ELLENSBURG 385
CAMERON
TO EPHRATA
CHEHALIS CO-CITY
FOR DETAILS IN THE PORTLAND AND SEATTLE AREAS SEE CHART 142
YAKIMA CO. 278 (118.5)
WASH. 5 D.A.
TOLEDO
TOLEDO 239
YAKIMA 320 (116.1)
TOPPENISH
SPOKANE 3
ILWACO
CLATSOP CO
WASH.
ORE.
KELSO
On request
KELSO 266
On request
STEVENSON 347
WOODLAND 23
WASHOUGAL
ORE. 2 D.A.
HOOD RIVER
ARLINGTON
TO PENDLETON
WASH. 1 D.A.
BAY OCEAN
PORTLAND
PORTLAND 332
COASTWAY AERO
NAS. TILLAMOOK 520
WILLAMETTE 21
THE DALLES
THE DALLES 230
McMINNVILLE
NAS. TILLAMOOK 278 (142.74)
WILLSHERON
SKY HAVEN
McNARY
DALLAS
RAY ADAMS
ALBANY
NEWPORT
CORVALLIS JCT
CORVALLIS
LEBANON
MADRAS
ROBERTS
PRINEVILLE
REDMOND 368
EUGENE 251
LANGMACK
HARRISBURG
MAHLON SWEET
EUGENE
MEDFORD
MEDFORD 19
CHEMULT
BEND (HEN)
49°
48°
47°
46°
45°
44°
125°
124°
122°
121°
120°
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.
SCALE OF MILES
25 0 25 50

SPOKANE 3


DOROTHY SCOTT
TONASKET
OKANOGAN No. 1
OKANOGAN-LEGION
COLVILLE
NEWPORT
HAFER'S
DEER PARK
SPOKANE 365
COEUR D'ALENE 347
SANDPOINT
EUREKA
LIBBY
MONT.
IDAHO
WASH.
ANDERSON
CHELAN
EPHRATA 269
DAVENPORT
CALKINS AIR TERMINAL
COEUR D'ALENE AIR TERMINAL
FELTS 278 (118.5)
SPOKANE AAF 245 (126.1)
THOMPSON FALLS
WILBUR
COULEE CITY
EPHRATA
HARRINGTON
GEIGER AAF
LEMEN
WEEKS
KELLOGG
ROSALIA
ST MARIES
TO SUPERIOR
TO ELLENSBURG
MOSES LAKE AAF
RITZVILLE
TEKOA FLY CLUB
MULLAN PASS 206
LIND
LA CROSSE
WASH. 5 D.A.
WASH. 8 D.A.
CONNELL
WASHTUCNA
PULLMAN-MOSCOW REGIONAL
GREAT FALLS 6
GREAT FALLS SEATTLE
ASOTIN CO.
OROFINO
TOUCHET VALLEY
WALLA WALLA 212
LEWISTON
SUNNYSIDE
NAS, PASCO
PROSSER
VISTA
TWIN CITY
MARTIN
WALLA WALLA AAF
SKY RANCH
KAMIAH
WASH.
ORE.
PENDLETON 278 (118.7)
HERMISTON
BOARDMAN
OREGON SKY RANCH
IDAHO CO.
TO THE DALLES
CABBAGE HILL
PENDLETON AWYS SER.
ENTERPRISE
JOSEPH
LEXINGTON
LA GRANDE
On request
LA GRANDE 329
PENDLETON 341
PILOT ROCK
LA GRANDE
ORE.
IDAHO
McCALL
BAKER 221 (116.1)
SEATTLE 2
JOHN DAY
BAKER
CASCADE
WEISER
SEATTLE
SALT LAKE CITY
PAYETTE
ONTARIO 382
ONTARIO
BOISE 350
ELKO 22
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓘ: USABLE WITH CAUTION
SCALE OF MILES
25 0 25 50

SPOKANE

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COEUR D'ALENE (Air	347 (KO)	BMRLZ-DT, 321°,5.2	(4)
PAYETTE FM	(.- - - - -)	FM, 301°,49	Boise
MONTANA			
MULLAN PASS	206 (MN)	BMRLZ-DT	(4)
OREGON			
BAKER	221 (BK)(116.1)	SBRAZ-VDT;116°,2.1	(4); 116.1
CABBAGE HILL FM	(- -)	FM, 121°, 11	Pendleton
LA GRANDE	329 (IU)	MHT	(4)
ONTARIO	382 (OO)	MHT	(4)
→ PENDLETON	341 (PO)	SBRAZ-DT	(3)
Pendleton Field	278 (118.7)	C; 247°,2.3	(4);131.9,126.18,118.7
LA GRANDE FM	(- - - -)	FM, 300°,38	Baker
WASHINGTON			
EPHRATA	269 (EP)	BMRLZ-DT; 336°, 3.9	(4)
FELTS (Spokane)	278 (118.5)	C	(4);118.5,126.18,131.9
HARRINGTON FM	(- - - -)	FM,236°,45.3	Spokane
→ SPOKANE (Felts)	365 (SM)	SBRAZ-DT;332°,1	(3)
SPOKANE AAF	245 (126.18)	CA	(3); 126.18
WALLA WALLA	212 (WL)	SBMRLZ-DT	(4)
→ Walla Walla AAF	DECOMMISSIONED		

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cascade	1 E;rd N	4765	29 S2	80 oct.Pole line NW.
Cavuse Creek.USFS (NC)	40 ENE Pierce	3700	23	
Chamberlain.USFS (Dixie)(NC)	17.6 SE	5765	21	Maintained May to Nov.
Coeur D'Alene Air Terminal	6.3 NNW;RR NW	2310	54h R1 L3 S1	80 oct. 2-50'poles S
Dixie,USFS (NC)	4 SW;creek E	5200	28	Obst N,E,S.
Idaho Co.(Grangeville)	0.9 N;rd W	3295	44 S2	80 oct.20 pole line W.
Kamiah	0.6 SE;RR E	1194	28	Rough. Trees NNW.
Kellogg Int,29B,SA-HL	0.8 NW;riv N	2300	38 L3 S4	80 oct,10' dike W.
Landmark.USFS(Knox) (NC)	7.7 ESE	6680	15	Maintained June to Nov.
→ (P) Lewiston	2 S;riv NW	1426	50h L	Port rnwy lgts.
McCall	1 S;RR W	5021	23 S4	80 oct.Trees W.
Orofino	1.3 W;riv NE	1000	24 S1	80 oct.1000'mtns WNW.
Payette	2 NE;RR W	2200	35	Road crosses fld SE,ENE
Priest River (NC)	0.9 NNW;RR S	2165	21	Trees E;hill W.
Sandpoint	1.5 NNW;RR W	2117	27 S4	73,80 oct.No sto.Pole line
Tekoa Flying Club (Tensed)	5 NNW;creek N	2650	16 S2	80 oct. W.
Weeks (Coeur d'Alene)	3 N;RR E	2237	30 S6	73 oct.Trees NE.
Weiser	2.8 S;RR NE	2120	34 S2	73 oct.
St. Maries	1.2 NW;hwy S	2132	23	
MONTANA				
Eureka	2.7 NNW;RR N	2680	20	
Libby, USFS	1 NE;riv S,E,W	2090	30	Mtns sur fld.
Thompson Falls	3.2 ESE;RR N	2460	25	Mtns E,S.
OREGON				
Baker	4.3 NNE;hwy W	3368	49h R1 L3 S6	80 oct.No sto.
Boardman Flight Strip	5.6 WSW;RR N	378	42h	
Burns	1.2 NW;hwy S	4144	49h R1 L3 S6	80 oct.Trees E.
Condon	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Corvallis	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Crescent Lake	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Crescent Lake Jct	0.5 N;RR E	4800	30 S2	80 oct.Trees E.
Crooked River Ranch	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Dallas	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Diamond Lake	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Dufur	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Elgin	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Fossil	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Gilchrist	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Grants Pass	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Hermiston	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Hood River	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Ione	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
John Day	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Joseph	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
La Grande	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Lexington	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Ontario	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Oreg.Sky Ranch(Milton)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
PENDLETON	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
"Arwys Inc (Pendleton)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
→ Pilot Rock	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Hermiston	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
→ Enterprise	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
WASHINGTON				
Asotin Co.(Clarkston)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Anderson(Pateros)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Calkins Air Terminal (Spokane)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Chelan	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Colville	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Connell	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Coulee City	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Davenport	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
(P) Deer Park	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Dorothy Scott(Orov'l)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Ephrata	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Fairweather(Republic)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
FELTS (Spokane)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
(N) Geiger (Spokane)(A)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Hafer's Ranch (Chewelah)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Harrington Int,19,SA-HL	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
La Crosse,28B,PD-SM	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Lemen Airpark (Opportunity)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Lind	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Martin (College Pl.)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
(A) Moses Lake AAF (A)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Newport	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Okanogan-Legion (Okanogan)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Okanogan Flgt Strip (Omak)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
(N) Pasco NAS (N)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Prosser	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Pullman-Moscow Regional (Pullman)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Ritzville	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Rasalia	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Sky Ranch(Walla Walla)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
(A) Spokane AAF (A)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Sullivan Lake (Metaline Falls)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Sunnyside	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Tonasket	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Vista (Kennewick)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Wallace (Mead)(NC)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
(A) WALLA WALLA AAF	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
Washtucna	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Wilbur	0.5 N;RR E	2700	30 S2	80 oct.Trees E.
Twin City (Kennewick)	1.5 NW;RR E	2250	30 S2	80 oct.Trees E.
"J Z" (Almira)	0.5 N;lake S	4800	30 S2	80 oct.Trees E.
Touchet Valley (Huntsville)	0.5 N;RR E	2700	30 S2	80 oct.Trees E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not charted. → New or revised data

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DU BOIS	388 (DZ)	SBRAZ-DT, 332°,1.7	(4)
MONTANA			
ALBERTON FM	(- - -)	FM, 276°,14.8	Missoula
BELT FM	(- -)	FM, 86°,21.5	Great Falls
BOZEMAN (Gallatin)	329 (BL)	SBMRAZ-DT,319°,0.8	(4)
BUTTE	233 (BT)	BMRLZ-DT,99°,16.1	(4)
CASCADE FM	(- - -)	FM,202°,19.3	Great Falls
CUT BANK	263 (GV)	SBRAZ-DT,327°,3.1	(4)
DILLON (Int.)	379 (DE)	BMRLZ-DT,167°,2	(4)
DRUMMOND (Int.)	296 (DR)	SBMRAZ-DT,185°,1.4	(4)
GREAT FALLS	317 (GT)	SBRAZ-DT	(3)
Great Falls Mun.Arpt.	278 (118.7) (126.18 on req)	AC; 17°, 1.9	(4);126.18,131.9,119.7
GREAT FALLS AAF	219 (126.18)	CA (ILS)	(3); 126.18
HELENA	371 (HL)	SBMRAZ-DT,252°,1.9	(4)
HOMESTAKE FM	(- -)	FM, 275°, 21	Butte
LIVINGSTON (Int.)	224 (LT)	SBMRAZ-DT,247°,2	(4)
McDONALD PASS FM	(- - - -)	FM, 252°, 18	Helena
MISSOULA	308 (MX)(116.1)	SBMRAZ-VDT,1200,1.5	(4); 116.1
STANFORD FM	(- - - -)	FM,270°, 29	Lewistown
SUPERIOR (Int.)	254 (SP)	BMRLZ-DT,275°,0.1	(4)
WHITEHALL (Int.)	284 (WW)	SBRAZ-DT,183°,2.3	(4)
WHITETAIL FM	(-)	FM,352°,15.6	Whitehall
WINSTON FM	(- -)	FM, 100°, 15	Helena

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
GREAT FALLS AAF, MONT.	109.9		23° Mag.	IM (.27)	MM ·····(1.13) MMK	OM -- (4.63) OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

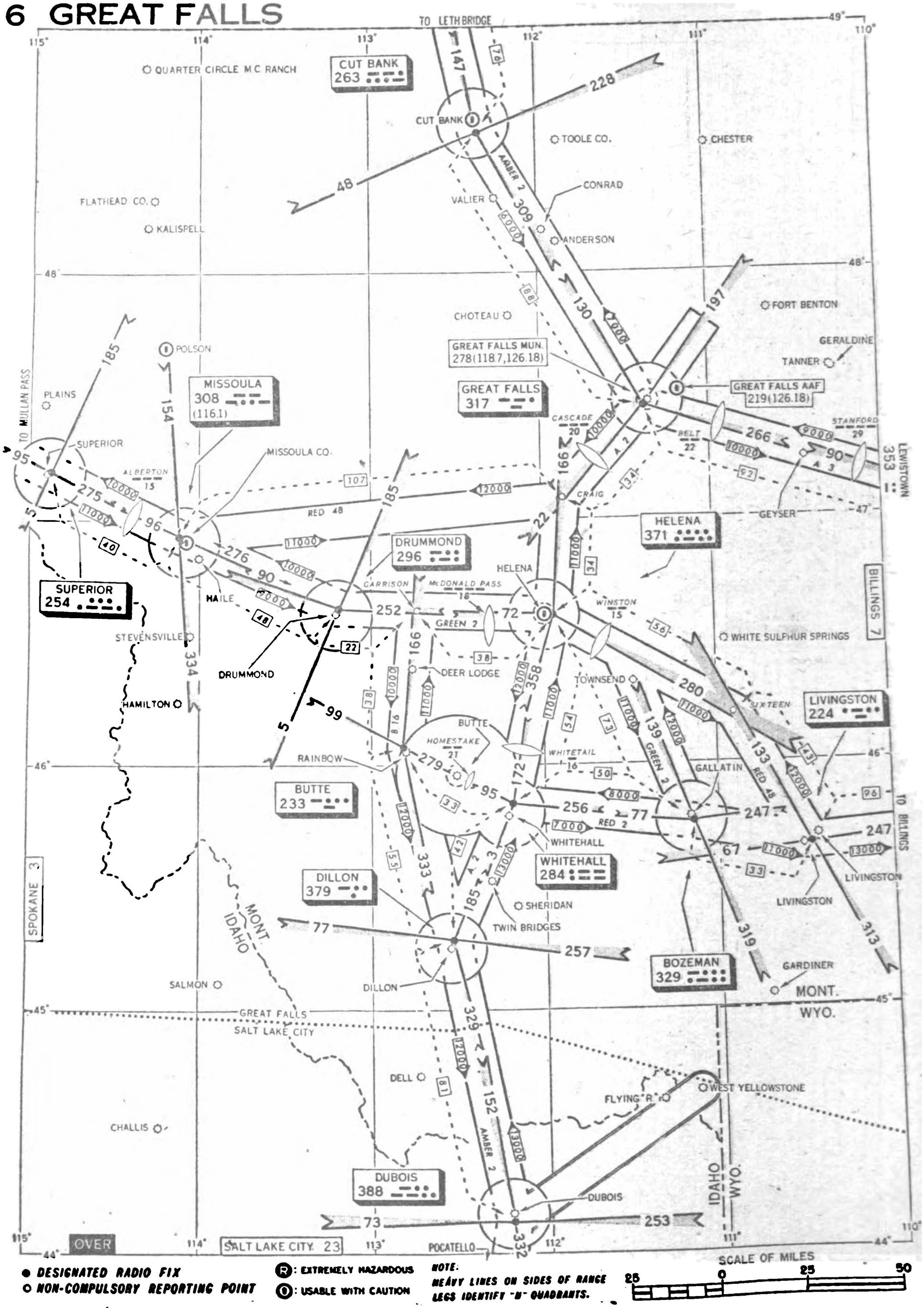
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Springs (NC)	1.1 WNW;RR SE	6350	27	Trees ENE,WSW.
Challis	1.2 NNE;hwy E	5000	34 S1	73,80 oct.
★ Dubois ,23,SL-GT	0.8 SSE	5123	48 R1 L3	30' pole W.
Flying R (Lake)	2.8 SE;lake W	6630	34 S1	Ltd 73 oct.
Moose Creek,USFS (Red Riv,Hot Sprgs)	26.5 NNE	2200	23	Mtns sur fld. (NC)
Salmon	4 S;riv W	4045	40 S2	80 oct,Mtns NE.
MONTANA				
Anderson (Conrad)	4.8 SE;RR W	3730	16	PRIVATE.
Basin Creek (Flathead Nat'l Forest)(NC)	56 NE Missoula	4900	21	Closed to public
Big Prairie (Flathead Nat'l Forest)(NC)	57 NE Missoula	4650	22	Closed to public
Black Bear (Flathead Nat'l Forest)(NC)	58 SE Kalispell	4200	22	Closed to public
Bob Gordon (Cascade)	0.9 W;RR E	3480	25	(NC)
BUTTE	4 S;RR W,N	5553	56h R1 L5 S4	80,91 oct.
Chester	1.5 NW;RR S	3150	44	
Choteau	1.2 NNE;RR W	3810	39 S4	80 oct.
Condon (Flathead Nat'l Forest)(NC)	48 NNE Missoula	3690	25	
Conrad	1.1 W; creek S	3530	32 S1	80 oct.
CUT BANK	3 SW;riv 1 E	3899	87h R1 L5 S6	80 oct, ARPT OF ENTRY.
Deer Lodge	1.5 W;RR E	4700	38 S1	80 oct.
Dell Fight Strip,28, SL-GT	1.3 NW;RR E	6008	70h L2	
★ Dillon Int,32, SL-GT	4.6 ENE;riv 2 W	5238	38 R1 L3 S1	80 oct.

MONTANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Drummond Int.44B. SA-HL	+ SW;hwy E	4300	36 R1 L3	
Ennis (NC)	1 NW;riv E	4985	23	
Flathead Co.(Kalispell)	7.4 NNE;RR E	2690	47h L2 S1	80 oct.All lgts prior req.
Fort Benton	1.3 NE;RR SE	2870	27	Poles NW.Soft when wet.
Gallatin (Bozeman)	8.5 NW;RR S	4461	52h R1 L5 S6	80-100 oct.
Gates Park,USFS(NC)	35 W Choteau	5400	26	Sur by mtns.Closed to public.
Geraldine Mun.	0.5 S;RR NE	3200	17 S1	Ltd 73 oct.
★ Geyser Int,55,CX-GT	3 SE;RR N	4281	43 L3	
GREAT FALLS	3.5 WSW;RR E	3664	70h R2 L5 S6	80,91 oct. ARPT. OF ENTRY.
(A) Great Falls AAF(A)	4.5 E;RR N	3459	89h R3 L5 S6	73.91.100 oct.IP-1.Foreign clearing station.
Hale (Missoula)	2.3 SSW;hwy NW	3200	38 L4 S6	73 oct.All lgts prior req.
Hamilton	1.3 ENE;hwy W	3640	24 S6	80 oct.Pole line S.
HELENA	2.5 ENE;hwy W	3894	55h R1 L5 S6	80,91 oct,Stack WSW.
Holbrook (Flathead Nat'l Forest)(NC)	58 NE Missoula	4575	20	Sur by mtns.Closed to public.
Hot Springs (NC)	2.2 E;hwy W	2800	27	
Kalispell	1 S;hwy E	2900	34 S4	80 oct.Poles NW.
Livingston	6 ENE;RR N,W	4656	62 S1	80 oct.
★ " Int,10,HL-Twin Cities	2 E;RR N	4630	40 R1 L3	Poles S.
Meadow Creek (Flathead Nat 1 Forest)	48 SE Kalispell	4000	22	(NC)
MISSOULA COUNTY	5.3 WNW;RR N	3199	71h R1 L5 S2	73,91 oct.
Plains	1.3 NNW;RR E	2500	32 S4	80 oct.No sto.30' Poles NW,NE.
Polson	1.5 W;riv E	2900	23 S4	80 oct.No sto.
Quarter Circle,M.C. Ranch (Polebridge)	4.2 NW;riv W	3600	26 S1	73 oct.Ski-equipped acft only. Nov. thru April.
Rainbow Skyport (Gregson)	0.7 N;RR E,S	5030	40 S1	80 oct.
Schaeffer (Flathead Nat 1 Forest)(NC)	50 ESE Kalispell	4855	24	Sur by mtns.
Seeley Lake (NC)	1.5 WNW;lake SE	4150	20	Trees NW.
Sheridan	1.5 SE;RR W	5160	27	Brush, cattle on fld.
Six Mile Landing Fld (Huson)(NC)	2 NNW;riv S	3200	24	Hill NE;make SW approach.
Spotted Bear (Flathead Nat 1 Forest)(NC)	39 SE Kalispell	3800	22	
Stevensville	2 ENE;riv 2 W	3620	30 S2	73 oct.
★ Superior Int,36B,SA-HL	1 S;RR SW	2700	35 R1 L2	Mtns NW;trees SE.
Tanner (Geraldine)	0.5 NW;RR NE	3200	25	
Toole Co.(Shelby)	2 NNW;RR S	3300	26 S2	80 oct.Poles E,SE.
★ Townsend Int,3,HL-Twin Cities	2.2 ENE;riv 3 W	4000	40 L2 S1	80 oct.
Troy (NC)	1.3 NW;riv E	2017	26	Trees SSE.
Twin Bridges	1.5 SE;RR SW	4725	38	
Valier	0.6 S;lake S	3820	35	Caution when wet.
West Yellowstone	1.3 W;RR S	6700	63 S2	91 oct. Trees sur fld.
★ Whitehall Int,36A,SL-GT	6.7 SW;RR N	4665	60 R1 L3	
White Sulphur Sprgs.	4 SSW;RR E	5010	24	Livestock on fld.
Gardiner	1 NNW;RR S	6200	22	

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. (see page XIII) (NC)-Not charted. → New or revised data

6 GREAT FALLS

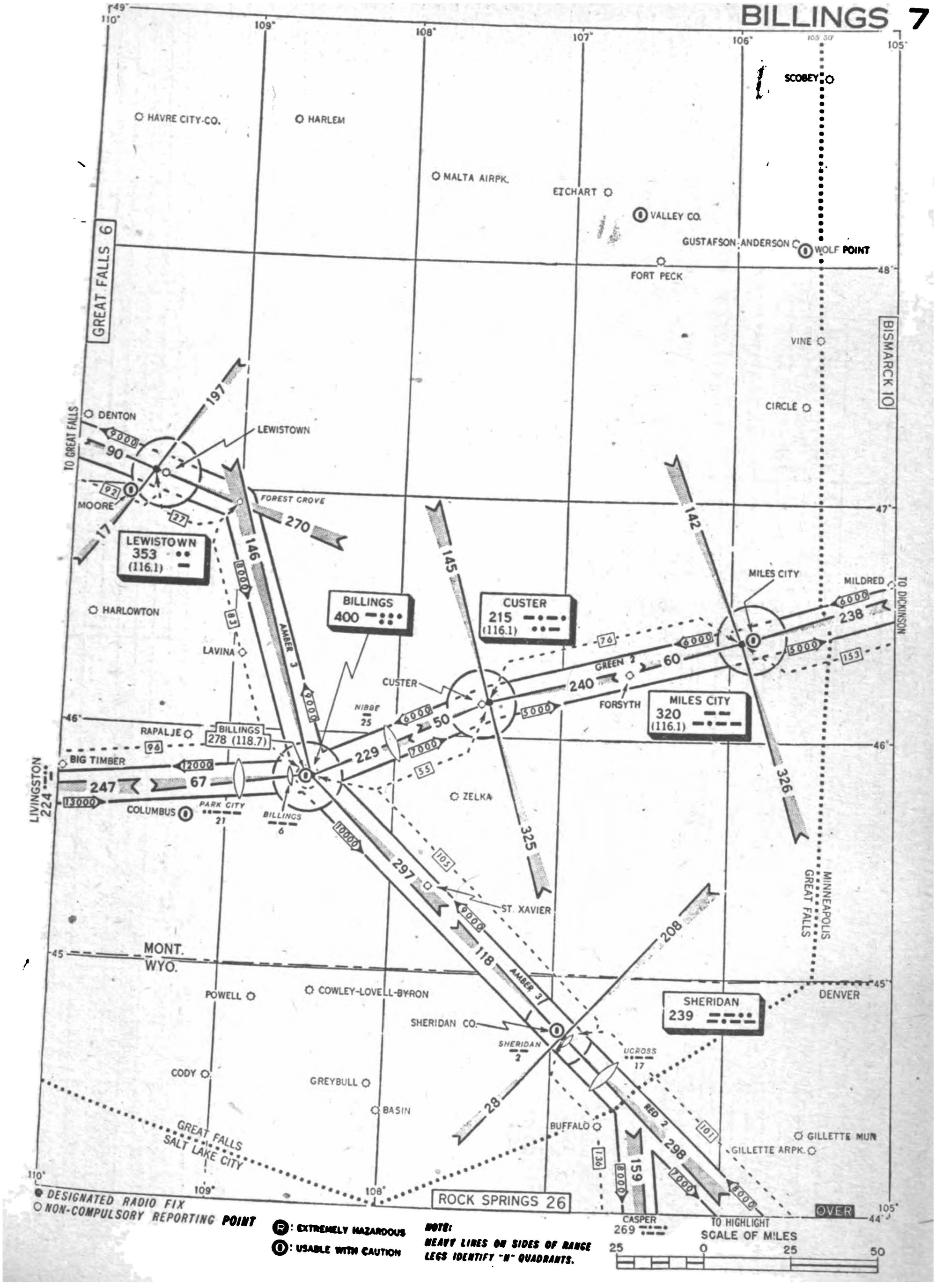


● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

BILLINGS 7


49°
110°
109°
108°
107°
106°
105° 30'
105°
SCOBEY
HAVRE CITY-CO.
HARLEM
MALTA AIRPK.
EICHART
VALLEY CO.
GUSTAFSON
ANDERSON
WOLF POINT
FORT PECK
48°
GREAT FALLS 6
BISMARCK 10
VINE
CIRCLE
DENTON
LEWISTOWN
TO GREAT FALLS
197
90
9000
92
MOORE
27
17
FOREST GROVE
270
146
8000
LEWISTOWN
353
(116.1)
HARLOWTON
83
LAVINA
AMBER 3
9000
BILLINGS
400
CUSTER
215
(116.1)
145
142
MILES CITY
MILDRED
TO DICKINSON
6000
238
76
6000
5000
153
GREEN 2
60
240
CUSTER
NIBBE
25
6000
50
5000
FORSYTH
MILES CITY
320
(116.1)
46°
RAPALJE
BILLINGS
278 (118.7)
96
BIG TIMBER
12000
229
7000
55
247
67
LIVINGSTON
224
13000
COLUMBUS
PARK CITY
21
BILLINGS
6
ZELKA
326
325
10000
105
297
ST. XAVIER
9000
118
AMBER 31
208
MINNEAPOLIS
GREAT FALLS
MONT.
WYO.
45
POWELL
COWLEY-LOVELL-BYRON
SHERIDAN CO.
SHERIDAN
2
SHERIDAN
239
DENVER
UCROSS
17
CODY
GREYBULL
BASIN
28
RED 2
298
101
GILLETTE MUN
GILLETTE ARPK.
BUFFALO
136
8000
159
7000
8000
GREAT FALLS
SALT LAKE CITY
110°
109°
108°
ROCK SPRINGS 26
CASPER
269
OVER
105°
44°
TO HIGHLIGHT
SCALE OF MILES
25
0
25
50
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

BILLINGS	400 (BI)	SBRAZ-DTX	(3)
➔ Billings Airport	278 (118.7)	C(ILS):247°,1.5	(4);118.7,126.18,131.9
BILLINGS LFM	(- - -)	LFM, 247°, 6	Billings
CUSTER (Int.)	215(CU)(116.1)	BMRLZ-VDT,230°,2	(4); 116.1
LEWISTOWN	353(IT)(116.1)	SBRAZ-VDT,90°,2.9	(4); 116.1
MILES CITY	320(MY)(116 1)	SBMRAZ-VDT,58°, 2.1	(4); 116 1
NIBBE FM	(-)	FM, 49°, 25.4	Billings
PARK CITY FM	(. - - -)	FM, 247°, 21	Billings

WYOMING

SHERIDAN LFM	(- -)	LFM, 117°, 2.3	Sheridan
SHERIDAN	239 (ZY)	SBRAZ-DT,298°,1.8	(4)
UCROSS FM	(. . - -)	FM, 118°, 17.4	Sheridan

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
Billings, Mont.	110.3	335	253° Mag.	IM-	MM- •-•-(0.6)	OM- --(4.3)
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-

S-Simultaneous Range and Voice W-Without Voice Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MONTANA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Big Horn Co.(Hardin)	2.3 ESE,riv W	3000	31	(NC)
★ Bigtimber Int,13A, ➔ HL-Twin Cities	2.5 SSW,hwy N	4450	43 L3	
➔ BILLINGS	2.5 NW,RR S	3565	57h R3 L6 S6	73,91,100 oct.
Bones Bros.Ranch (Birney)(NC)	2 ESE,crk W	3500	29	ROUGH
Chinook (NC)	2.8 NNE,rd W	2480	42	
Circle	1.3 E,RR N	2400	21	
➔ Columbus	1 ESE,RR N	3575	50 S1	80 oct,Poles W,E,NW.
★ Custer Int,25,HL-Twin Cities	2.3 E,riv NE	2868	42 R1 L3	
Denton	2.2 SSW,RR N	3850	26 S4	73 oct.
Etchart(Tampico)	0.5 NNW,RR S	2100	29 S2	80 oct.Trees SE.
★ Forsyth Int,30.HL-Twin Cities	3 ENE.riv N	2722	30 L3	
Fort Peck	1.6 W,hwy S	2294	30 S1	80 oct.
Gustafson-Anderson (Wolf Point)	0.8 NW,RR S	2040	26 S6	80 oct.Poleline E.
➔ Harlem	2.3 NNE,RR E	2560	24 S2	80 oct.
Harlowton	2 WNW,riv S	4400	29 S2	73 oct.
Havre-City-County	4 WSW,lake E	2589	48h S4	80 oct.ARPT OF ENTRY.
Ingomar (NC)	0.8 WSW,RR N	2950	24	
Jordan (NC)	1.8 WNW,rd S	2637	40	Road W
★ Lavina Int,44B, CX-GT	1 WNW,RR S	3496	39 L3	
LEWISTOWN	2.5 SW,RRNW	4177	100h R1 L5S4	80 oct.
➔ Malta Airpark	0.8 SW,RR N	2270	31 S4	80 oct.Shrubs NW.No sto.
★ Mildred Int,38, HL-Twin Cities	3.4 WSW,rd E	2535	37 L2	
(P)MILES CITY	2.5 NW	2626	56h R1 L5 S6	73,91 oct. Hwy NE.
Poplar (NC)	0.8 N,RR S	1970	33	
Rapelje	1 SE,RR N	4030	38	
Red Lodge (NC)	0.5 WNW	5600	29	ROUGH. Road N.
Roundup (NC)	1.9 N,hwy S	3500	37	Hwy W.
★ St. Xavier Int,35, CX-GT	7.3 SSW	3170	40 L3	River W
➔ Scobey	1 NW,RR S	2458	34 S1	80 oct.
➔ Valley County (Glasgow)	1.8 NNE,RR S	2298	81h S6	80 oct.
Vine (Vida)	8 S,hwy W	2350	27 S1	80 oct.
Wolf Point	3 E,riv S	1980	35 S2	80, 91 oct.
Zelka(Hardin)(NC)	2 W,hwy N	3002	18	

WYOMING

Basin	2.5 NE,riv E	3775	34	Hills adj E.
Buffalo,27,CX-GT	2.6 NNW	4900	40 L3 S1	80, 91 oct. Hwy E.
Cody	2 ESE,riv N	5084	47 S6	73,91 oct.Hill E; pole line S.
Cowley-Lovell-Bryon	2 NNE,rd NW	4050	32	
(P)Gillette	5.2 NNW	4380	36 S2	73, 80 oct. Hwy E.
(P)Grey Bull	2 NW,hwy S	3900	44 S2	73 oct.
(P)Powell	8 NNW	5054	42 S2	73 oct.
(P)SHERIDAN COUNTY (Sheridan)	2 SSW,hwy E	3961	60h R1 L5 S6	80,91 oct.
➔ Moore (Mont.)	0.5 E,RR N	4100	20 S2	73 oct.
➔ Gillette Arpk.(Wyo.)	1.7 ESE,RR N	4650	25 S1	80 oct.Poles NW.

RADIO

NORTH DAKOTA

LOCATION	FREQ.. IDENT	STA. CLASS, BEAR. & DIST	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISMARCK	230(RK)(116.1)	SBRAZ-VDT,260°, 2.3	(4): 116.1
DICKINSON (Mun.)	308(DC)(116.1)	SBMRAZ-VDT,167° 2.1	(4): 116.1
DRISCOLL FM	(-)	FM, 73°, 30	Bismarck
GOLVA (Int.)	266(GA)(116.1)	MHVT	(4): 116.1
JUDSON FM	(- - -)	FM,260°, 27	Bismarck
MINOT(Port O'Minot)	209 (UI)	BMRLZ-DT,301°, 3.4	(4)

SOUTH DAKOTA

PHILIP	206 (IL)	MHT	(4)
PIERRE	347(PX)	SBRAZ-DT,249°, 3.5	(4)
RAPID CITY	221 (RZ)	SBRAZ-DT	(4)
Rapid City AAB	396 (126.18)	CA:345°,5.5	(4): 126.18
SPEARFISH (Black Hills Airport)	335 (SE)	HT	(4)

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105, 4495, 6210 kcs., (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

MONTANA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Baker	0.8 SSE, hwy N	2290	35 S2	80 oct. Poles NW,W.
Glendive	2.5 NE,RR S	2128	28 S6	80 oct. Poles S.
Plentywood	0.5 S,RR NE	2065	24 S4	80 oct.
→ Sidney	6.6 NW,hwy W	2290	30 S2	80 oct.

NORTH DAKOTA

Beach	0.8 NNW	2814	30 S1	73 oct. RR W.
BISMARCK	2.4 SSE,RR ENE	1653	51h R1 L5 S4	73,80,91 oct. No sto.
Bowman	1.5 W,RR N	3000	24	
Chandler(Williston)	3 W,RR SE	1877	24 S6	80 oct.
Crosby	1 N,RR SW	1962	33	
Dickinson Mun.	5.8 S,hwy E	2587	54h R1 L3	

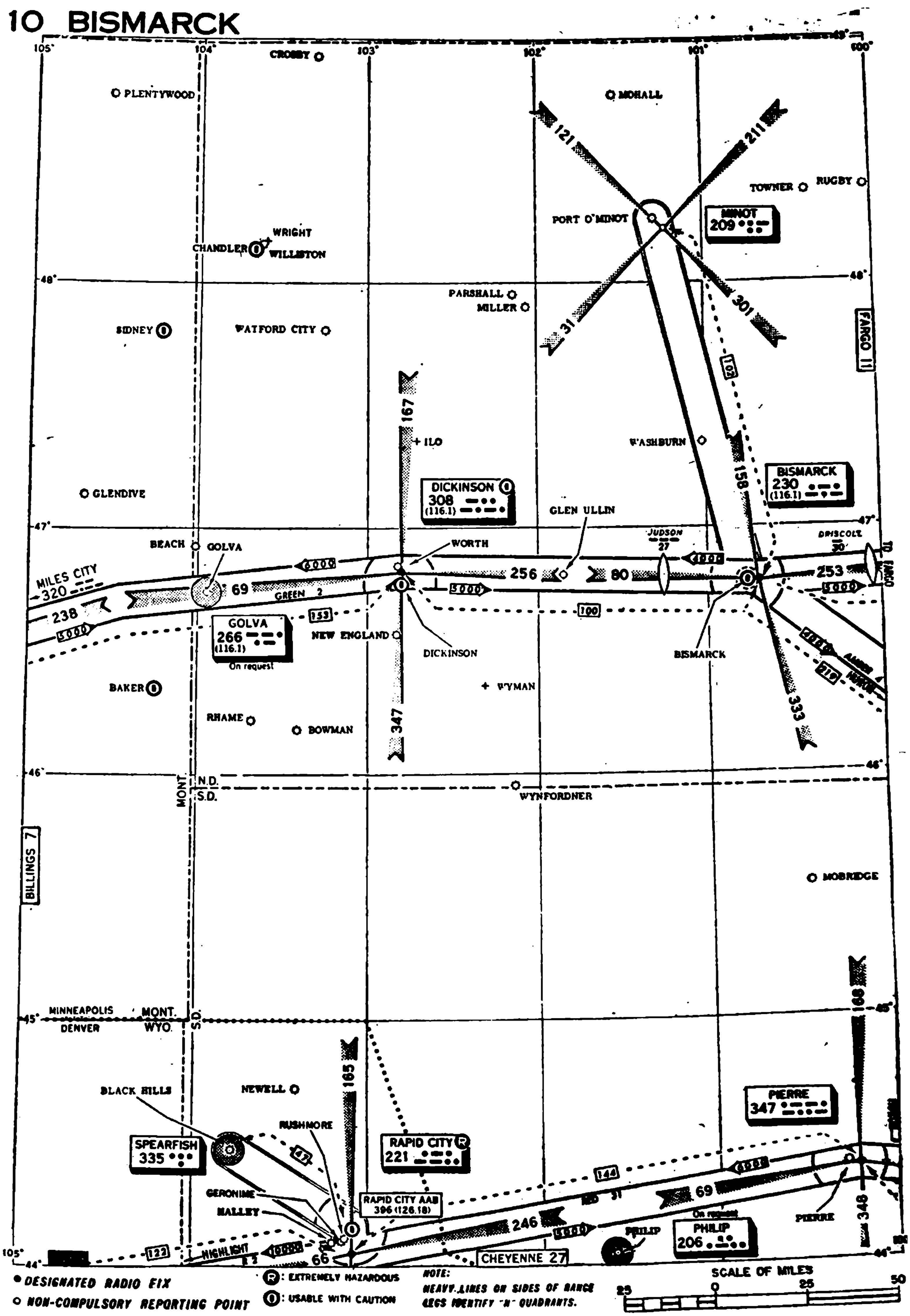
NORTH DAKOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Dunseith (NC)	1.5 S	1715	26	
★ Glen Ullin Int,53,HL-Twin Cities	1.5 WSW,RR N	2084	29 L3	Poles NE,trees E,SE.
★ Golva Int,43,HL-Twin Cities	1.5 E,hwy W	2781	34 R1 L3	
Ilo (Killdeer)	1.5 SE,hwy N		23 S2	73 oct. Data unver.
Miller (Parshall)	5 SE,RR N	1950	20 S1	80 oct. Pole line N.
Mohall	0.8 WNW,RR E	1650	26 S2	73 oct. Polelines S.
New England	2.4 NE,hwy W	2666	24 S2	73,80 oct. Poleline W
Parshall	1 S,RR N	1970	22	
(P) Port O'Minot(Minot)	1.6 NNE, hwy W	1724	58h R1 L5 S4	80,91 oct. No bcn. Pwr line SW.
Rhame	1.5 SW,RR NE	3150	23 S1	73 oct. Pole line S.
Rugby	2 NNW,RR SW	1542	26 S6	80 oct.
Towner	1.5 NE,RR S	1482	27 S1	80 oct. Poleline N,NW.
★ Washburn Int,4,RK-UI	5.1 N,hwy W	1905	40 L3	Pole line W.
Watford City	1.2 ENE,hwy S	1975	31 S1	73 oct.
Williston	1,1 NNW,hwy E	1861	24 S6	80,91 oct. Obsts N,E,S
Worth(Dickinson)	1.8 SW,riv NW	2455	28 S6	73 oct. Hangar NW.
→ Wright(Williston)	2 NNE	1876	32h S6	80,91 oct. Data unver.
Wyman (Mott)	1 S,dam N		30 S1	80 oct. Data unver.

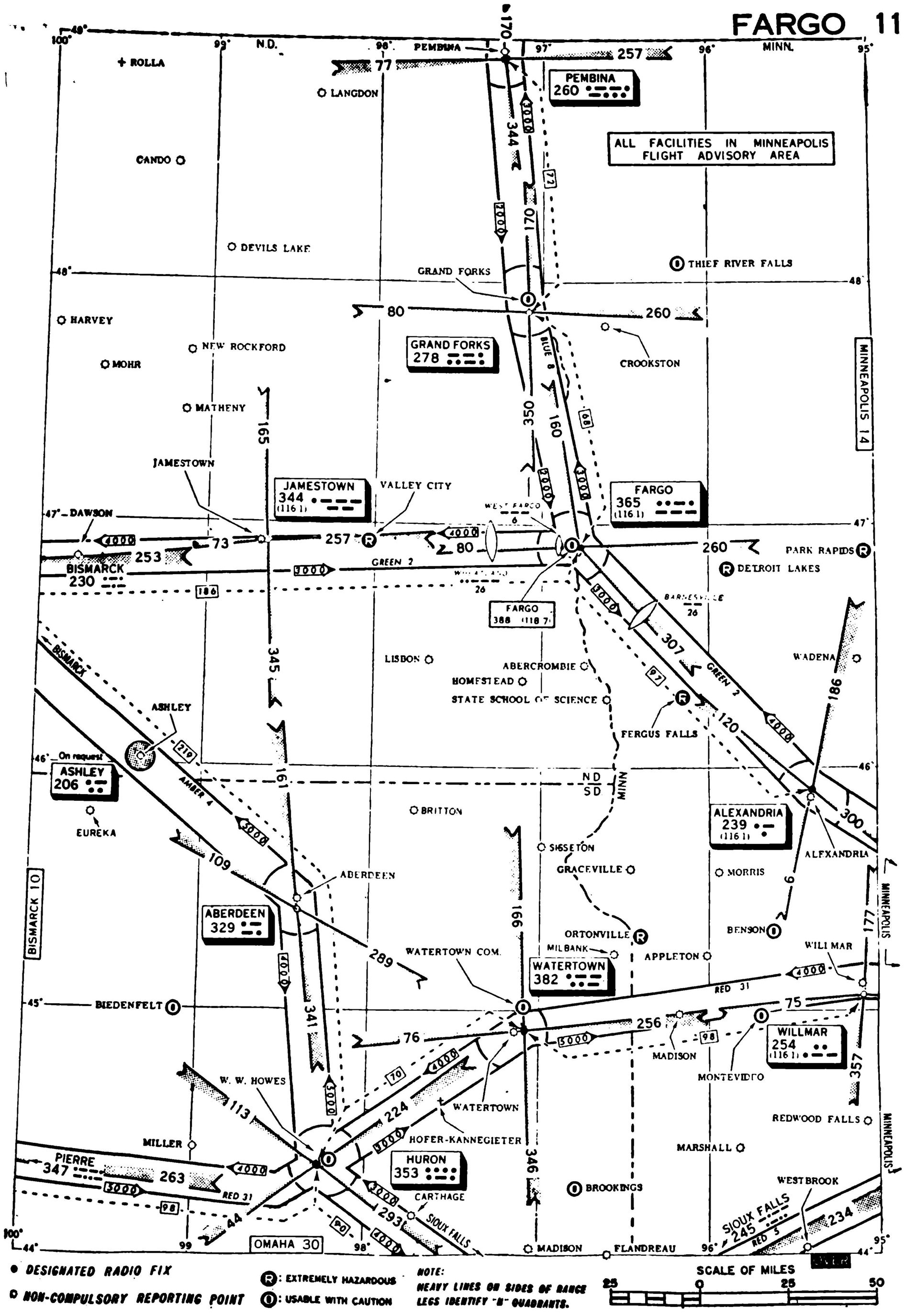
SOUTH DAKOTA

Belle Fourche(NC)	8.4 NW,hwy N	3140	50	
BLACK HILLS	4.6 E,hwy S	3900	53 R1 S6	73, 91 oct.(Spearfish)
→ Geronime(Rapid City)	4.3 ENE,RR S	3200	28 S1	73,91 oct. Poles sur fld
Halley(Rapid City)	1.5 NNE,riv SE	3300	40 S6	73 oct.
Mobridge	1.2 NW,RR SW	1621	31 S4	80 oct. Poleline E,NE
(P) Newell	0.2 N	2825	30 S2	73 oct. Poleline SE,W, N, NW.
Philip,31,CX-HR	3.6 E,RR S	2210	40 R1 L3 S6	80 oct. No sto. Poleline N
PIERRE	3.5 NE,riv SE	1719	69h R1	
(A) Rapid City AAB(A)	8 NE,RR S	3216	83h R2 L5 S4	73,91,100 oct JP-1.
→ Rushmore(Rapid City)	5 ENE,RR S	3150	31 S6	70 oct.
Wynfordner(Lemmon)	1.3 NE,RR S	2580	26 S1	80 oct. Poleline NW.

10 BISMARCK


105°
104°
103°
102°
101°
100°
CROSBY
PLENTYWOOD
MOHALL
121
211
TOWNER
RUGBY
PORT O'MINOT
MINOT
209
WRIGHT
CHANDLER
WILLISTON
48°
PARSHALL
MILLER
SIDNEY
WATFORD CITY
301
31
FARGO 11
167
102
ILO
WASHBURN
GLENDIVE
DICKINSON
308
(116.1)
158
BISMARCK
230
(116.1)
GLEN ULLIN
47°
JUDSON
27
DRISCOLL
30
BEACH
GOLVA
WORTH
MILES CITY
320
6000
256
80
253
69
GREEN 2
238
5000
153
100
GOLVA
266
(116.1)
On request
NEW ENGLAND
DICKINSON
BISMARCK
BAKER
WYMAN
RHAME
BOWMAN
347
46°
MONT.
N.D.
S.D.
WYNFORDNER
BILLINGS 7
MOBRIDGE
MINNEAPOLIS
DENVER
MONT.
WYO.
45°
165
BLACK HILLS
NEWELL
RUSHMORE
PIERRE
347
SPEARFISH
335
101
RAPID CITY
221
GERONIME
HALLEY
RAPID CITY AAB
396 (126.18)
144
31
69
246
5000
PHILIP
On request
PHILIP
206
PIERRE
348
HIGHLIGHT
122
66
CHEYENNE 27
105°
44°
SCALE OF MILES
25
0
25
50
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

FARGO 11



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

SCALE OF MILES
25 0 25 50

RADIO — MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	**239(AE)(116.1)**	**BMLZ-VDT,186°,2**	**(4); 116.1**
BARNESVILLE FM	**(- -)**	**FM, 127°, 26**	**Fargo,** N.D.
WILLMAR	**254(IW)(116.1)**	**SBMRAZ-VDT,357°,3.5**	**(4); 116.1**
NORTH DAKOTA			
ASHLEY (Int.)	206 (AI)	MHT	(4)
→ FARGO	365(FO)(116.1)	SBRAZ-VDT	(3); 116.1
→ Fargo-Hector Arpt	388 (118.7)	C, 260°, 0.9	(4); 126.18, 118.7, 131.9
GRAND FORKS	278 (GF)	BMLZ-DT,350°,3.4	(4)
JAMESTOWN	344 (JM)(116.1)	SBMRAZ-VDT,253°,1 5	(4); 116.1
PEMBINA (Int.)	260 (PB)	SBMRAZ-DT,350°,1.6	(4)
WEST FARGO LFM	(- - -)	LFM, 260°, 5 5	Fargo.
WHEATLAND FM	(. . - - - -)	FM, 260°, 25.5	Fargo.
SOUTH DAKOTA			
ABERDEEN	329 (AN)	SBRAZ-DT,341°,2.5	(4)
HURON (W.W.Howes	353 (HR)	BMRLZ-DT,44°,2.7	(4)
WATERTOWN	382 (WU)	BMRLZ-DT,256°,2.9	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — MINNESOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Alexandria	1.5 SSW,lk NW	1423	57h R1 L5 S4	80,91 oct.
Appleton	1.9 NNE,riv S	1010	34 S2	80 oct.Poleline S,SE,SW
Benson	2.4 NW	1031	22	Poleline NW.
Crookston	3 NNW,RR N	875	30 S2	80 oct.Obst sur fld.
Detroit Lakes	2.7 W,RR N	1392	35 S2	80 oct.Rnwy data unver.
Fergus Falls	4.3 W,RR N	1160	23 S1	80 oct.Poleline W
Graceville	0.8 WNW,RR S	1110	16	Poleline S.
Madison	1 S, hwy W	1086	31 L3 S6	80 oct.
Marshall	1.5 W,RR NE	1167	35 S4	80 oct.
Montevideo	2.2 NNE,RR W	950	19 S2	80 oct.Poleline W,NW
Morris	2.7 WSW,RR N	1134	31 S2	80 oct.Trees,poleline NW
Ortonville	1 ESE,hwy S	1090	21	Hwy W.
Park Rapids	1.7 SSW,RR E	1440	28	Poleline E.
Redwood Falls	1.8 NE,riv NE	1025	25 S2	80 oct.Poleline SE,SW.
Thief River Falls	3.6 S, riv W	1110	20 S1	80 oct.
Wadena	1 E,RR NW	1300	30 S1	80 oct.Poleline S,NW.
Westbrook	1 SE,hwy N	1500	18 S1	80 oct.Poleline W.
Willmar,16,HR-MP	1.5 W,RR E	1130	28 R1 L3 S6	80 oct.
NORTH DAKOTA				
Abercrombie	1.7 SSW,riv E	949	24 S1	80 oct. Poleline E.

NORTH DAKOTA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Ashley Int,40,OH-RK	1 SE,hwy N	2025	40 R1 L3	
Cando	1.1 SW,RR E	1490	26 S1	80 oct.
★ Dawson Int,63,HL-Twin Cities	1 SW,RR N	1760	34 L2	
Devils Lake	2.5 W,hwy S	1450	43h	Poleline W
FARGO-HECTOR (Fargo)	2.9 NNW,RR SW	899	50h R2 L5 S6	73-100 oct.JP-1 fuel.
GRAND FORKS	2.6 WNW,RR S.E	837	49h R1 L5 S6	73,80,91 oct.ARPT OF ENTRY.
Harvey	1.9 N,RR SW	1605	30 S1	80 oct.
Homestead(Wynd-mere)	6.2 N,hwy W	1100	19 S1	Ltd 73 oct.Trees E,SW.
(P) Jamestown	1.5 NE,hwy S	1493	58h R1 L3 S6	80 oct.
Langdon	1 W	1608	18 S1	80 oct.
Lisbon	0.8 SSW,RR SE	1151	21 S1	73 oct.Polelines N,S.
Matheny (Carrington)	1.3 W,RR N	1580	32 S1	80 oct.Poles NE,NW.
Mohr (Fessenden)	1.5 SW,RR NE	1620	22 S1	80 oct.
New Rockford	1.5 N	1533	30	
★ Pembina Int,14,FO-WG	1 S,RR W	792	28 R1 L3 S4	80 oct.No ngt svcg. ARPT. OF ENTRY.
Rolla	0.7 N,lake S		21 S2	80 oct.Data unver.
St.School of Science (Wahpeton)	0.8 N,RR W	964	30 S6	80 oct.Poleline N;pwrline E.
(P) Valley City, 71,HL-Twin Cities	1.5 NW,riv NE	1375	31 L3	

SOUTH DAKOTA

Aberdeen	2.9 E,RR N	1299	49h R1 L5 S6	73,80,91 oct.
Biedenfelt(Faulkton)	2 S;rd,RR E	1590	26 S1	73 oct.Poles E.
Brookings	2.5 SSE,hwy W	1600	26 S4	80 oct.
Eureka (NC)	6 N, rd W	1895	28	Poles W.
Flandreau	3 S;hwy N,E	1575	27 S1	80 oct.Poles sur fld.
Hofer-Kannegieter (Willow Lake)	1.5 E	1787	22 S2	73 oct.Poleline N.Data unver.
Madison	3.7 ENE,hwyS	1688	26 S2	80 oct.Trees W;pole NW
★ Miller,Int,44,CX-HR	5.6 S,hwy E	1735	37 L2	
Redfield (NC)	1 SSW,RR NE	1300	25	Pole line E.
WATERTOWN	2 NW,RR NE	1736	69h R1 L5 S1	80, 91 oct.
Watertown Com.	8.3 N,hwy E	1779	30	Poles E, SE.
(P) W.W.HOWES(Huron)	1.3 NNW	1287	43h R1 L3 S6	73,80,91 oct.
→ Britton Mun.(S.D.)	2 NNE,RR W	1350	24 S1	73 oct.Poles W.
→ Carthage (S.D.)	0.3 S,RR E	1440	22 S2	No fuel.Poles NW,SW.
→ Eureka Mun.(S.D.)	2.2 NNW,RR E	1910	23 S1	73 oct.
→ Sisseton Mun.(S.D.)	2.9 ENE,RR S	1210	30 S2	80 oct.
→ Milbank (S.D.)	3.8 ENE	1150	26 S2	73 oct. Pwr line SE,NNE.

★-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X111) NC-(not charted). → NEW OR REVISED DATA.

RADIO

MINNESOTA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DULUTH (Williamson-Johnson)	221 (DH)	SBRAZ-DT, 13°, 4	(4)
HAMEL FM	(- - - -)	FM, 298°, 24	Minneapolis
HASTINGS FM	(- -)	FM, 118°, 10.2	Minneapolis
JORDAN FM	(- - -)	FM, 238°, 26	Minneapolis
LAKE CITY	206 (FE)(116.1)	MHVT	(4); 116.1
→ MINNEAPOLIS (Wold Chamberlain Field)	266(MP) (116.1)	SBRAZ-VDT, 298°,3.5	(3);116.1
WOLD CHAMBERLAIN (Minneapolis)	278(126.18) (142.74)	AC	(4); 116.1,126.18,142.74
ROCHESTER AIRPORT	278 (126.18)	C	(4);116.1,126.18, 140.1

S-Simultaneous Range and Voice; W-Without Voice; Z VHF Station Location Marker at Range Station. (3) 3105, 4495, 6210 Kcs. (4) 3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Gogebic Co. (Ironwood)	4.5 NNE; RR S	1246	24 S4	80 oct. Soft when wet.

MINNESOTA

Anderson (Cocato)	2.6 ENE,RR S	1020	23 S2	80 oct.Poles S; trees W.
Anoka Flying Service	1.2 SE,riv SW	896	19 S1	80 oct.Poles NE; 629' twr SE.
Baudette	1 N, riv NE		27 S2	80 oct. Data not verified.
Bemidji	2.5 NNW, RR S	1395	57h S4	80, 91 oct. Rnwy data unverified.
Brainerd	1.3 SSE,hwy W	1210	22 S2	Ltd 73 oct.
(A) Camp Ripley (Little Falls)	7.5 N, riv E	1150	52	Tank SE corner (A)
Carleton (Stanton)	0 7 NE,RR W	870	30 S6	80 oct.Polelines sur fld.
Cedar (Minneapolis)	8.5 S, RR W	811	28	
Coleraine	0.8 SSE	1390	25 S1	80 oct.
Ely	1.2 E	1425	24 S2	Poleline W;trees sur fld.
Faribault	1.6 S,hwy W	1060	20 S1	80 oct. Pwr line W.
Fleming (South St. Paul)	1.8 S, riv E	822	15h	
Flying Cloud (Minneapolis)	13.8 SW, riv S	900	28 S1	80 oct. Poles SE, SW
Gervais (Toft)	1.2 NE,hwy S	800	27 S2	80 oct.
Grand Rapids	1.5 SSE,lake NE	1293	22 S2	80 oct.
Hector	0.7 S, RR N	1100	25 S1	80 oct.Poleline W, NW, SW.
Heywood Gull Lake (Nisswa)	1.7 SSW,lake S	1200	26 S1	80,91 oct.Trees,poles sur fld.
(P) Hibbing	4.5 SE,lake NNW	1367	40h S6	80 oct.
Kenyon	0.8 S,RR E	1240	20 S1	80 oct.Poleline N, NE.
Lake City (Frontenac)	0.5 SE,RR N	775	44 R1 L3 S6	80 oct.
Le Sueur	1.1 S,riv W	900	20 S1	80 oct.Poleline SSW. Rolling.
Litchfield	1.2 NE,RR S	1140	24 S1	Ltd 80 oct. Trees W.
Littlefork	1.8 WNW,riv E	1153	19 S1	80 oct. Poleline S.
Mankato	1.7 SE,hwy W	996	33 L1 S6	80 oct.Pwrline E, NE.
(P) Monticello	1.3 NNE,road S	940	50 S6	80 oct.
New Ulm	1.8 W; RR N	1000	32 S1	80 oct. Poleline N. Hwy N.
Northport (White Bear Lake)	3.2 E, hwy N	1000	23 S6	80 oct.
Osseo	2 NE	875	30	Data not verified.
(P) Otis Lodge (Grand Rapids)	7.5 SW,lake S	1293	30 S1	80 oct. Poleline E.
Pleasant Corner (Dodge Center)	2 ESE;RR N,W	1050	16 S1	80 oct.Poles S,SE; trees SW.
Princeton	1 W, RR E		20 S1	80 oct. Data not verified.
Robbinsdale	0.8 NW,RR E	879	17 S6	80 oct.
St. Paul	1.5 SE,riv E	704	55h L4	
St. Peter	2.4 NNW,riv E	900	23	Poleline S.
Sells Flying Field (Mayer)	0.4 SSE	750	12	(NC)
Taylor Falls	1.5 W,RR S	950	23 S4	80 oct. No sto.
University of Minnesota (New Brighton)	3.8 N, hwy W	909	34 S6	80 oct. Trees E.
Victory (Minneapolis)	9 N, riv E	860	33 S6	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xLII) NC-(not charted). → NEW OR REVISED DATA.

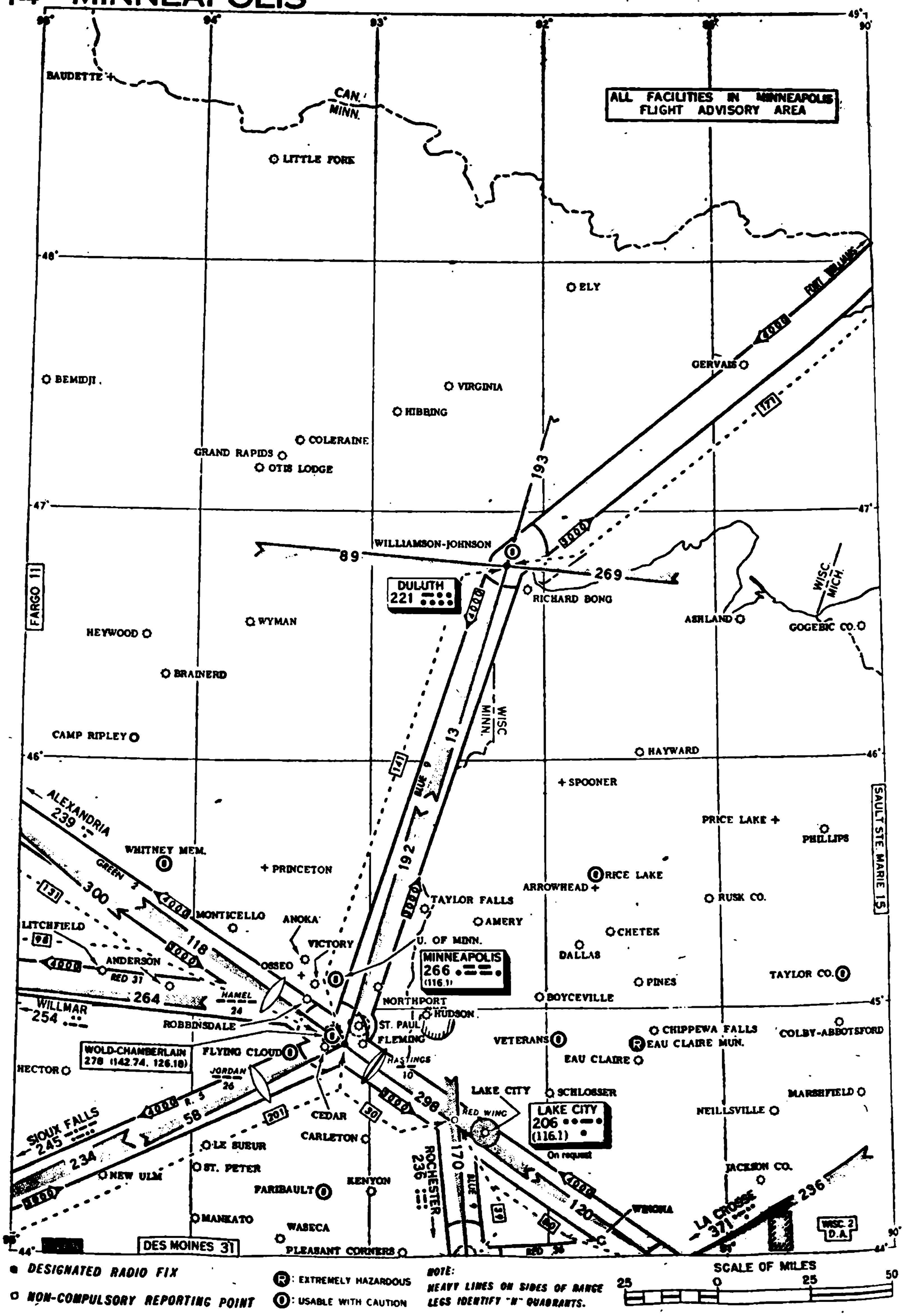
MINNESOTA

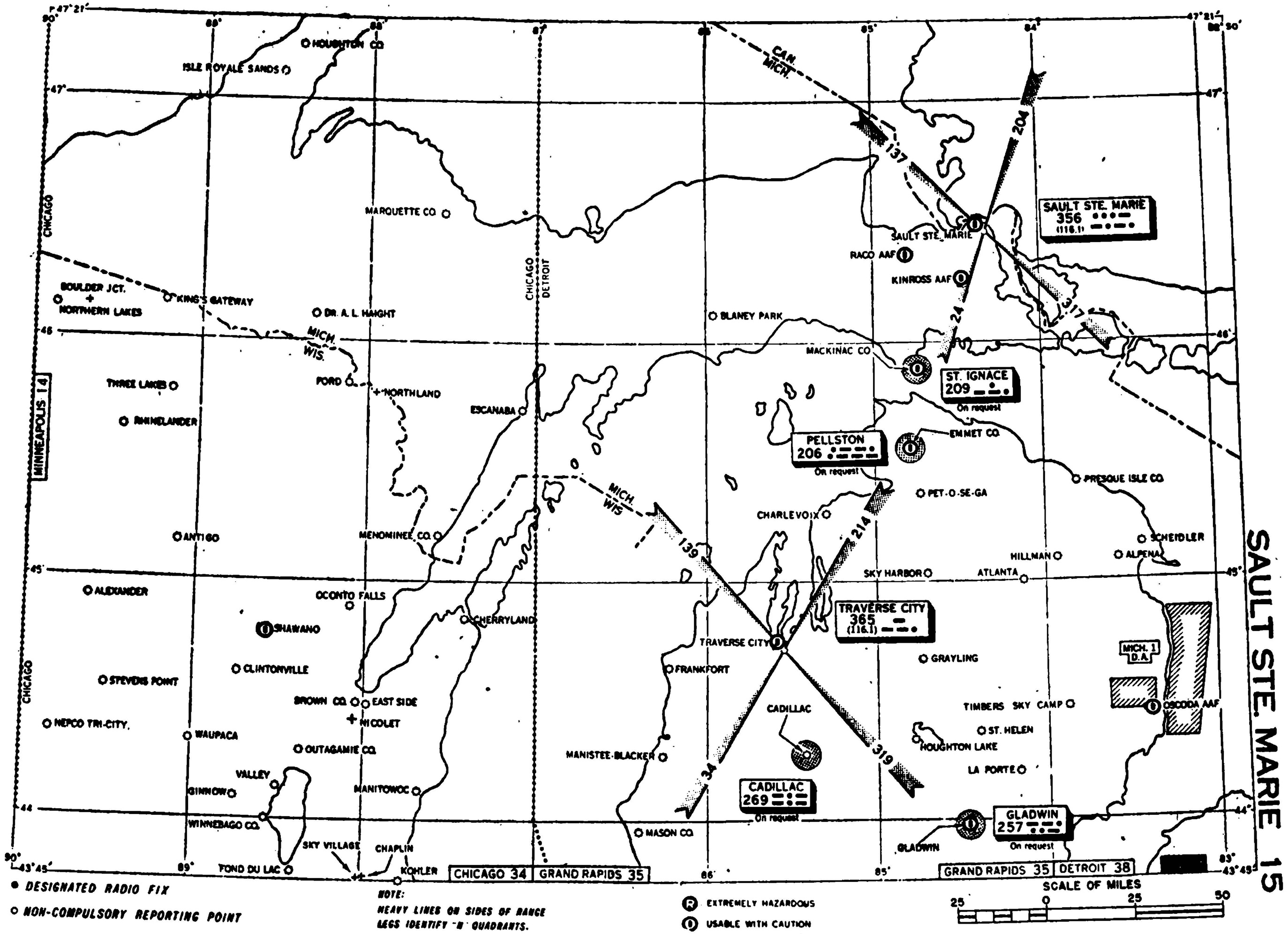
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Virginia	2 WSW,bet RRs	1429	35 S2	73 oct. Poles N.
Waseca	0.5 S,RR NW	1150	39 S1	80 oct. Poleline N,W, E.
(P) Whitney Memorial (St. Cloud)	1.5 NNW,riv NW	1034	32 L3 S6	80 oct.
(P) WILLIAMSON-JOHNSON (Duluth)	6.5 NNW,hwy S	1428	57h R1 L1 S6	80,91 oct. ARPT OF ENTRY.
Winona	4.5 WNW	670	19 L3 S1	80 oct. Bet. RRs.
(A,N) WOLD CHAMBERLAIN (Minneapolis)	6.5 SSE,hwy S	834	59h R2 L4 S6	87-100 oct. JP-L. Rdp rec required.
Wyman (Aitkin)	1.3 N,riv S	1200	8	Poles W.

WISCONSIN

Amery	3.4 NNW,hwy N	1100	26 S1	80 oct.Poleline SE.
Arrowhead (Rice Lake)	1.3 SE,lake SE	1147	24 S4	80 oct.Trees SE.Data unverified.
Ashland	2.5 SSE,RR E	700	22 S3	80 oct. Hi-lines NE, SW.
Boyceville	0.5 SSW,hwy N	948	24 S2	80 oct.Obsts sur fld.
Boyd's Mason Lake (Fifield) (NC)	13 WSW,lake NW	1200	26	
Chetek	1.5 SE,RR S	1050	22 S1	80 oct.Trees N,SE,NW; pole S.
Chippewa Falls	2 S,RR NW	910	26 S2	80 oct.Pole line W, NW.
Colby-Abbotsford (Colby)	1.2 NNW,RR E	1400	19 S1	80 oct.
Dallas	0.7 SSE,RR W	1100	22 S1	80 oct.Pole line S.
Eau Claire	1.5 SSE,riv NW	884	40 S6	80 oct. Obsts sur fld.
(P) Eau Claire Municipal	3.5 NNE,riv NW	885	28	
Hayward	2 NE,RR NW	1200	30 S1	80 oct.
Hudson Flying Service	3.8 E,hwy N,W	850	15	Pwrline N, W.
Jackson Co. (Black River Falls)	2 E, RR W	855	25 S1	80 oct.
Marshfield	2.3 SSW,hwy W	1253	20 S2	80 oct.
Neillsville	5.7 W,hwy SW	1000	21 S1	80 oct. Trees around fld.
Phillips	1.2 N,riv S	1140	30 S2	80,91 oct.Pole line W, S.
Pines (Bloomer)	0.9 E,RR W	1050	16 S1	80 oct. Poles S, W.
Price Lake (Phillips)	12.5 WNW	1140	22 S1	80 oct. Data not verified.
Rice Lake	3.5 NNE,RR W	1150	26 S1	80 oct. Poles sur fld.
Richard Bong (Superior)	2.3 SW,RR E	674	33 S4	80 oct.Pole line SE. 353' twr NW.
Rusk County (Ladysmith)	2.8 SE,RR SW	1150	11 S1	80 oct.
Schlosser (Durand)	2.4 NNW,riv W	800	32 S1	80 oct.
Spooner	5 N	1072	20 S1	80 oct.Data not verified.
Taylor County (Medford)	2 SE	400	19 S2	80 oct.Pole line N; bldg W, NE.
Veterans (Menomonie)	0.4 W,riv W	900	28	

14 MINNEAPOLIS




47°21'
90°
89°
88°
87°
86°
85°
84°
83°30'
47°
46°
45°
44°
43°45'
HOUGHTON CO
ISLE ROYALE SANDS
MARQUETTE CO
CAN MICH
137
204
24
SAULT STE. MARIE
356
(116.1)
SAULT STE. MARIE
RACO AAF
KINROSS AAF
CHICAGO
MINNEAPOLIS 14
BOULDER JCT.
NORTHERN LAKES
KING'S GATEWAY
DR. A. L. HAIGHT
CHICAGO DETROIT
BLANEY PARK
MICH. WIS.
MACKINAC CO
ST. IGNACE
209
On request
THREE LAKES
RHINELANDER
FORD
NORTHLAND
ESCANABA
PELLSTON
206
On request
EMMET CO
PRESQUE ISLE CO
PET-O-SE-GA
CHARLEVOIX
MICH. WIS
139
214
ANTIGO
MENOMINEE CO
SCHEIDLER
ALPENA
HILLMAN
SKY HARBOR
ATLANTA
ALEXANDER
OCONTO FALLS
CHERRYLAND
SHAWANO
TRAVERSE CITY
365
(116.1)
TRAVERSE CITY
FRANKFORT
GRAYLING
MICH. 1 D.A.
CLINTONVILLE
STEVENS POINT
BROWN CO
EAST SIDE
NICOLET
CADILLAC
TIMBERS SKY CAMP
OSCODA AAF
NEPCO TRI-CITY
WAUPACA
OUTAGAMIE CO
ST. HELEN
HOUGHTON LAKE
MANISTEE-BLACKER
34
319
VALLEY
GINNOW
MANITOWOC
CADILLAC
269
On request
LA PORTE
WINNEBAGO CO
MASON CO
GLADWIN
257
On request
GLADWIN
SKY VILLAGE
CHAPLIN
FOND DU LAC
KOHLER
CHICAGO 34
GRAND RAPIDS 35
GRAND RAPIDS 35
DETROIT 38
SCALE OF MILES
25 0 25 50
SAULT STE. MARIE 15
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R EXTREMELY HAZARDOUS
U USABLE WITH CAUTION

RADIO

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CADILLAC	269 (KK)	MHT	(4)
GLADWIN	257 (GU)	MHT	(4)
PELLSTON(Emmet County)	206 (PJ)	MHT	(4) (6-22)
ST. IGNACE (Mackinac Co.)	209 (EQ)	MHT	(4)
SAULT STE. MARIE	356(VCX)116.1	SBMRAZ-VDT, 317°,2.2	(4):116.1
TRAVERSE CITY	365(TGX)116.1	SBMRAZ-VDT:319°,2.3	(4):116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alger County (Munising)	4 SSE; hwy E	850	24	Twr N; woods all sides.(NC)
Alpena	6.5 WNW; RR S	685	50h	
Amasa (NC)	4 NW	1560	14	Not maintained.
Atlanta	0.8 ESE	875	20	Trees N, NW, W.
Baldwin (NC)	1.3 SSE; RR W	835	25	
Beaver Island(St.James)	4.2 SSW	620	35	(NC)
(P) Bellaire (NC)	1 NE; RR W,S	614	30	Poles SE; trees surround fld.
Big Lake (NC)	7.3 SW Baraga	1100	20	Trees on all sides.
Blaney Park	0.5 NW; lake N	850	18 S1	80,100 oct.
(P) Cadillac, 23, TL-VC	2.5 NW; RR E	1297	34 R1 L3 S4	80 oct.
Charlevoix	0.8 SW;lake NW	642	30 S1	80 oct. Poles W, NW, E.
Doherty (Clare)(NC)	1 NE	840	21	Poles S;NE cor. rough.
D.A.R. (Rexton) (NC)	1.9 WSW; RR N	900	22	Poles N.
(P) Dr. A. L. Haight (Crystal Falls)	1.3 ENE;lake E	1390	34 S4	80 oct. Trees, bldgs W.
East Jordan (NC)	1.9 SSE; riv W	640	26	Trees E, W.
(P) Emmet County (Pellston)	0.6 NW; RR E	707	54h R1 L3 S1	80,91 oct. Bcn on req.
Escanaba	2 SSW; hwy E	594	26 S4	73,80 oct.Trees E.
Ford (Iron Mountain)	2.5 W;riv W	1140	23 S6	80,91,100 oct.
Frankfort	1.9 ESE;lake W	650	29 S1	73,80 oct. Sur by-hills.
(P) Gladwin	0.5 SSE; riv W	780	35 R1 L3 S1	80 oct.Poles NW.
Grayling	1.3 NW; RR W	1152	50h	
Harrison (NC)	2.3 NNW; hwy E	1100	22	Surrounded by trees.
Hillman	2.8 NW	995	20 S1	Ltd 73 oct. Woods all sides.
Houghton County(Calumet)	2 SE; RR W	1200	26 S4	80 oct. Twrs, poles W.
Houghton Lake (Houghton Heights)	1.2 WNW;lk NNE	1150	27 S2	73,80 oct. Radio twr W,N, lgtd.
Isle Royale Sands(Houghton)	2 ESE; lake SW	605	22 S4	80 oct.
Ishpeming-Dexter (NC)	7 W; RR N, S	1570	25	Poles N.
Kalkaska (NC)	0.5 WNW; RR E	1020	26	
(A) Kinross (A)	2.5 SE	780	55h	INACTIVE.
La Porte (West Branch)	6 SE; RR W	890	26	Pole line NW; trees NE, SW.
Luce County (Newberry)	4.1 SE; hwy S	872	20h	(NC) Poles S; trees W.
Mackinac Co.(St. Ignace)	2 NNW; hwy E	600	26 R1 S2	80,91 oct.
Mackinaw City (NC)	5 S; RR W	700	22	
Manistee-Blacker	4 ENE; riv S	613	23 S2	73 oct.
Marenisco (NC)	1.6 E; hwy N	1551	20	Trees surround fld.
Marquette County	7.9 W; hwy S	1412	27 S2	80 oct. Poles W.
Mason County (Ludington)	1.7 ENE	640	30	Poles S.
Menominee County	5 NNE; bay E	590	27 S1	80 oct. Trees surround fld.
Mio (NC)	1.6 N; hwy W	1050	26	
Northland (Norway)	2 W	1060	33 S3	80,100 oct. Pole line N.
Norway Township(Loretto)	2.4 S; lake N	860	21	Trees on side strips. (NC)
(A) Oscoda AAP (A)	3.5 NW; lake E	605	50h	INACTIVE.
Otsego County (Gaylord)	1 SW; RR E	1384	30	Pole line NE (NC)
Pet-O-Se-Ga (Wildwood)	1.8 NW;lake NW	620	20 S2	80 oct
Poschke's (Harbor Beach)	2.5 W; rd S	670	18	(NC)
Au Gres (NC)	0.9 NNW;hwy S	590	20	Poles NE,SW.
Calvin Campbell Mun. (NC)	0.8 SE;RR,hwy W	602	20	Pole line N,trees E,W,S(Indian Riv

MICHIGAN

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Presque Isle (Rogers City)	0.7 SSE; hwy E	658	26 S2	No fuel
Prickett (Sidnaw)(NC)	0.5 N; RR SE	1300	18	Use caution.
(A) Raco AAF (A)	4 WSW; RR N	910	55h	INACTIVE.
Roscommon (NC)	2.5 SE;RR NE	1100	42	Pole line S.
St. Helens	0.9 SE; RR NE	1153	26	
(P) Sault Ste. Marie	1 SSW; hwy E	706	36 R1 L3 S4	80,91 oct. All lgts prior req. ARPT OF ENTRY.
Scheidler (Alpena)	6.3 N; hwy NW	590	22 S1	80 oct.Pole lines N,SW.
(P) Schoolcraft County (Manistique)(NC)	3.3 ENE;lake S	678	31	Approaches 5:1
Steuben (Manistique)(NC)	20 NW	850	18	Woods all sides.
Timbers Sky Camp (South Branch)	0.2 NE; riv E	950	24 S1	80 oct.
(P) Traverse City	2.1 SE; RR NE	624	52h R1 L5 S6	80,100 oct.No sto.
Watersmeet (NC)	1.5 NNE;RR SSE	1581	24	Poles SE.
Sky Harbor (Gaylord)	1 WNW;RR N	1355	26 S1	73,80 oct.Pole line S.
Onaway (NC)	0.6 NNE;RR S	770	24	Trees SW,NW,SE.
Petosky-Harbor Spr(Petosky)	4.5 NE;hwy E,N	620	20	Pole line,ridges E,N. (NC)
Roscommon Co.(Prudenville)	4.5 N;riv N	1150	24	Trees sur fld (NC)

WISCONSIN

Alexander (Wausau)	2.5 S; riv SW	1191	27 L4 S4	73,80 oct. Lgts prior req.
(P) Antigo	2 ENE; hwy N	1483	33 S2	80,91 oct.
Arbor-Vitae (NC)	2.9 W; RR S	1600	22	Pole line E, N.
Brown County(Green Bay)	2.2 WSW; hwy SE	590	28 S6	80,91 oct. Pole line NE,SE,S.
(P) Cherryland (Sturgeon Bay)	2 WNW; bay E	590	40 S2	80 oct. Pole line W, S.
Clintonville	1 ESE; RR SW	828	34 S6	80,91 oct.No sto.Pole line SW.
Eagle River (NC)	1.3 NW; riv NW	1675	32	
Fond du Lac	2.6 ENE;lk WNW	769	26 S2	80 oct. 50' hi-line N.
Ginnow (Omro)	3 N; RR E	800	19 S2	80 oct. Trees SW.
King's Gateway (Land O'Lakes)	0.5 SSE; RR W	1736	31 S2	80 oct. Twr NE; pole line NW.
(P) Kohler	1 N; hwy S	647	30 L1 S6	80 oct. Obst. sur fld.
Manitowoc	1.6 NNW; RR W	653	26 L3 S4	80 oct. No bcn. Obsts sur fld.
(P) Nepco Tri City(Wisconsin Rapids)	2.5 SSW; riv W	950	36 L2 S2	80 oct. Lgts on req.
Northern Lakes(Manitowish)	6.8 E; hwy N	1600	35 S1	80 oct. Trees E, W.
Oconto Falls	2.7 ENE; RR S	600	20 S1	80 oct. Pole line N.
Outagamie Co. (Appleton)	2.2 ENE; RR S	750	29 S2	80 oct. Obsts sur fld.
Rhinelander	2 W; riv SE	1598	37 S2	80 oct. 10' bank NE.
➔ Shawano	2.3 ENE;lake NE	813	40 S2	80,91 oct.Poles SW.Rnwy data unver.
(P) Stevens Point	3 NE; riv SE	1090	40h S6	73,80 oct.
Three Lakes	0.5 S	1664	23	Bldgs, trees around fld.
Valley Airways (Neenah)	4 SSW; RR E	750	21 S2	80 oct Pole line E. Data unverified.
Waupaca	4 ESE;riv N, E	853	25 S1	80 oct. Trees around fld.
(P) Winnebago Co.(Oshkosh)	2 SSW; RR NE	776	28h L1 S4	80 oct.No sto.Poleline NE,N,W.Rnwys
Boulder Junction	1.5 NW		33 S1	80,91 oct. Data unverified. unver.
East Side (Green Bay)	1.8 SE;RR S	600	19 S1	80 oct.Pwr line N,NE,NW.
Merrill(NC)	1.2 NNW	1285	22	Pole line NE.
Tomahawk (NC)	0.5 WNW	1450	15	
Washington Island (NC)	0.6 NNE of Detroit Harbor	600	24	
Nicolet (De Pere)	1.5 S;RR E	620	22 S4	80 oct.Pole line E,W.Data unverified.
➔ Sky Village (Plymouth)	1.8 WNW	900	18 S1	80 oct.Unverified.
➔ Chaplin Arpk(Plymouth)	0.5 N		20 S2	80 oct. Data unver.

PRESQUE ISLE

RADIO

MAINE

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA	221(AW)(116.1)	BMRLZ-VDT;81°,2	(4);116.1
BANGOR (Dow)	239(BB)(116.1)	SBRAZ-VDT;172°,2.1	(3);116.1
DOW (Bangor)	278(126.18)	AC (ILS)	(4);118.7,131.9,126.18
EAST CORINTH FM	(- - - -)	FM,352°,13.5	Bangor
HOULTON	272(HJ)(116.1)	BMRLZ-VDT;195°,3.1	(4);116.1
LIMESTONE FM	(-)	FM, 57°,22.3	Presque Isle
MILLINOCKET	344(MT)(116.1)	SBRAZ-VDT;292°,1.6	(4);116.1
PRESQUE ISLE	388(ZQ)	SBRAZ-DT	(4)
Presque Isle AAP	278 (126.18)	AC(ILS);189°,3.4	(4);388,365,116.1. 140.1,131.9,126.18
Presque Isle AAP	365 (RU)	SBMLZ; 9°,3.8	(4)

VERMONT

BURLINGTON	323(JG)(116.1)	SBRAZ-VDT	(3);116.1
GRANDE ISLE FM	(- - - -)	FM, 349°,15	Burlington
HUNTINGTON FM	(- -)	FM, 151°,17	Burlington
MONTPELIER (Barre-Montpelier)	257(UV)(116.1)	PMMLZ-VDT;230°,2.8	(4);116.1
VERGENNES FM	(- - - -)	FM,210°, 25.4	Burlington
Burlington Airport	278	C,151°,2.8	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)					
DOW, ME.	109.9		150° Mag.	IM	(.06)	MM	(.89)	OM	(4.80)
						MMK		OMK	
PRESQUE ISLE AAP, ME.	109.9		170° Mag.	IM	(.05)	MM	(1.00)	OM	(5.00)
						MMK 201	(1.00)	OMK 219	(5.00)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105.4495.6210 kcs., (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
AUGUSTA	1.5 WNW; hwy S	354	54h R1 L5 S6	80,91 oct.Pld lgts prior req.
Andover (NC)	2.5 S; hwy E	675	14	1125' hill, pole E.
Bar Harbor	9 NW; hwy W	87	45h S6	80 oct.
Bethel	1.6 NW; RR E	660	20 S1	80 oct.
Belfast	1 SW; hwy E	160	40h S4	80 oct. No sto.
Bishop (LaGrange)	0.8 N; RR W	360	20	WSW,ENE blocked.
Caribou	1 NW; hwy E	623	35h S6	80 oct.No sto.Bldg E.ARPT OF ENTRY
Deblois Flight Strip	2 SE; riv W,N	219	40h	
(P) Dexter	3 ESE; rd W,S	485	30h S2	80 oct.
Doanes (Brewer)	1.6 S; RR W	100	15 S5	80 oct. Poles NNE; trees SE.
(A) DOW (Bangor)(A)	2 W; RR S	160	70h R3 L6	INACTIVE.
Eastport	1.5 WNW;hwy NE	70	28h S1	80 oct. Pole line NW.
Fryeburg Airpark	1.3 E; RR S	400	20 S2	80 oct. Pole line S.
Greenlaw (Auburn)	1.8 W; hwy S	238	14 S6	80 oct. Bldg S.
Greenville	2 ENE	1750	30h L3 S1	80 oct.
Guertin (Lewiston)	1 NE	220	12 S2	87 oct. Trees,poles SSW.
HOULTON	2.5 E	474	57h R1	
" Flying Service				ABANDONED.
LEWISTOWN-AUBURN(Auburn)	4.5 SW; RR W	290	45h L5 S4	80,91 oct.
Maheux (Minot)	3.5 NNW;hwy NE	720	21 S6	80 oct. Trees SSE.
Millinocket	0.5 SE; hwy W	404	50h R1 L5 S1	91 oct. Pld lgts prior req.
Newport	1.5 ESE; hwy N	280	21 S1	Ltd 80 oct. Pole line N.
Norridgewock	3.7 W;riv NE,W	270	40h	Trees ENE.
Norway	1 N; RR S	387	18 S1	80 oct. Pole line SE.
Old Town	1.8 NNW;riv N	109	40h L3 S5	80 oct.
Pittsfield	0.7 SSE;hwy E	190	40h S6	80 oct. Sand pile, bldg E.
Pittston	1.8 ENE; RR W	140	18	NW,SW,S blocked.
A) PRESQUE ISLE AAP (A)	1.5 WNW; RR E	517	68h R3 L6 S6	91,100 oct. No sto.ARPT OF ENTRY
Princeton	1.5 SSE; nwyNE	250	40h	
Rangeley	1.6 NNW;hwy S	1810	15	80 oct.Rnwy info unver.
Raymond's (Phillips)	0.8 S; riv E	556	22 S1	

MAINE

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Rockland	3 SSE; rd NE	49	45h L5 S6	80,91 oct.No sto.
Rollins (Turner)	2.5 NNW; rd E	335	20 S6	80 oct.
Roy L.Fernald(Winterport)	3 WNW; hwy S	182	40h L3 S1	80 oct. Lgts prior req.
Tomlinson (Skowhegan)	1 NNE; riv S	240	21 S6	80 oct. Poles S, NW.
Waterville	1.8 SW; riv E	303	40h L5 S6	80,91 oct.Pld lgts prior req.
Weston (Madison)(NC)	1 N; riv W	300	19	Poles WSW.

NEW HAMPSHIRE

Berlin	1.5 N; riv W	1140	52h S3	80,91 oct.No sto.
Dean Memorial(Haverhill)	4.1 NE; RR W	570	15 S1	80 oct. Trees N, NW.
Lancaster Airpark	0.3 N; riv W		20 S1	80 oct. Data not verified.
Lewis (Littleton)	2.5 E; RR S	900	18 S6	80 oct. No sto.
Twin Mountain	0.8 SW; RR N	1430	18 S1	80 oct.
White Mtn. (North Conway)	1.9 SSE	540	23 S1	80 oct. Trees W, NW.
Whitefield	3 ESE; RR N	1030	24 S1	73 oct.

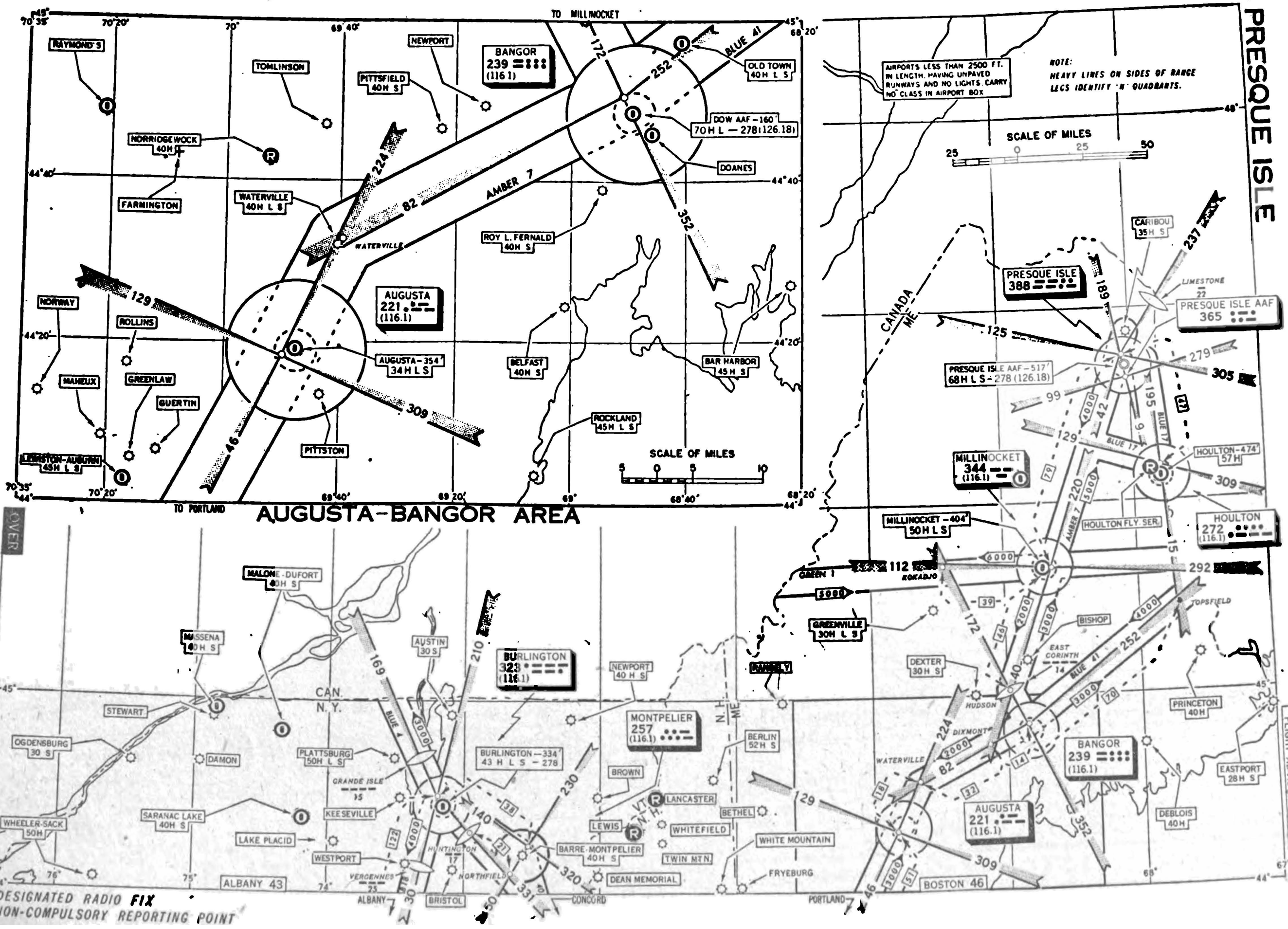
NEW YORK

Bradley (Watertown, (NC)	2.2 N; RR E,W	435	18	Rough. Pole line W, SW.
Damon (Potsdam)	1.5 E;riv,RR W	460	19 S1	80 oct. Pole line N.
Keeseville	1.4 S; riv W	490	20	Pole W.
Lake Placid	2 SE; RR NW	1750	21 S1	80 oct.
(P) Malone-Dufort	2 W; RR N	790	40h S1	80 oct. ARPT OF ENTRY.
Marcy (Keene)(NC)	2.5 S; hwy E	1000	18	Mtn N, S.
(P) Massena	2.2 E; riv SE	200	40h L1 S6	80 oct.Hcn on req.Trees WSW.ARPT OP ENTRY
Ogdensburg	1.5 SE; RR W	285	30 S6	80 oct.ARPT OF ENTRY
(P) Plattsburg, mur.	3.4 WSW;riv W	375	50h L5 S1	80,91 oct.
(P) Saranac Lake	5.3 NW; RR NW	1655	40 L1 S1	80 oct. Hcn on prior req.
Stewart (Massena)	2.1 SE; RR NE	210	20	
Tupper Lake (NC)	1 E; RR NW	1680	8	Use strips only.
Westport	2 S; RR W	285	22 S2	80 oct.
Wheeler-Sack(Great Bend)	1 NNW; riv S	680	50h	

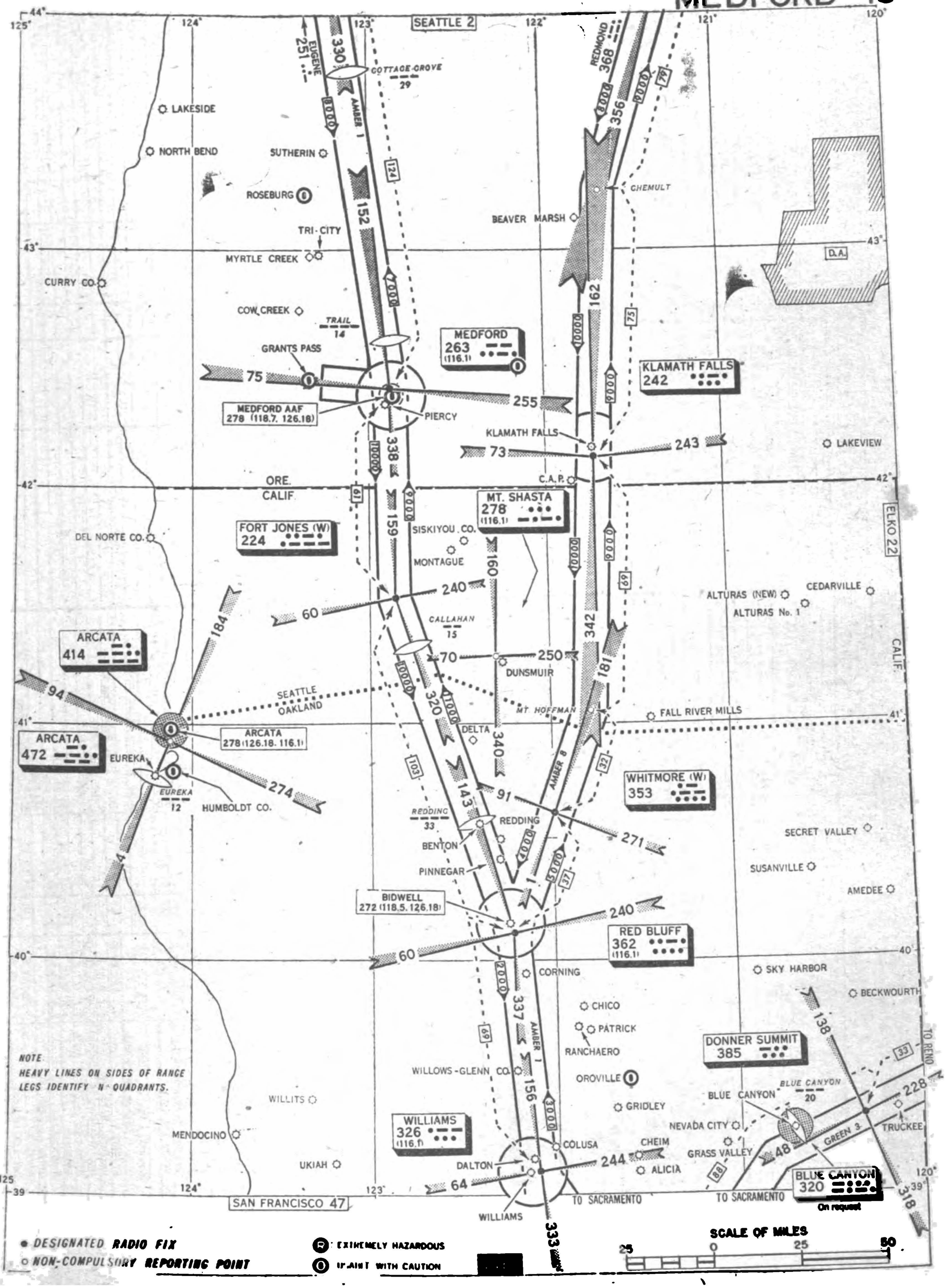
VERMONT

Austin (Swanton)	1.7 NE; RR W	235	30 L S6	80 oct.No sto.Port rnwy lgts.ARPT OP ENTRY.
BARRE-MONTPELIER(Berlin)	0.8 SE	1149	40h R1 L5 S2	80,91 oct.
Bristol	0.7 W; riv SE	570	22 L S6	80 oct.Port rnwy lgts.1680'mtn SE.
Brown (St. Johnsbury)	5.2 N; RR E	807	23 S2	80 oct. Hills W, SW.
BURLINGTON	3 E; lake N	334	43h R2 L5 S6	80,91 oct. ARPT OP ENTRY.
Newport	3 SSW; RR E	930	40h L2 S1	Ltd 80 oct. All lgts prior req.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page X111)(NC)-Not charted. → NEW OR REVISED DATA.


TO MILLINOCKET
TO PORTLAND
RAYMOND 5
TOMLINSON
NEWPORT
PITTSFIELD 40H S
BANGOR 239 (116.1)
OLD TOWN 40H L S
DOW AAF – 160' 70H L – 278 (126.18)
DOANES
NORRIDGEWOCK 40H
FARMINGTON
WATERVILLE 40H L S
ROY L. FERNALD 40H S
AUGUSTA 221 (116.1)
AUGUSTA – 354' 34H L S
NORWAY
ROLLINS
MANEUX
GREENLAW
GUERTIN
LEWISTON-AUBURN 45H L S
PITTSTON
BELFAST 40H S
BAR HARBOR 45H S
ROCKLAND 45H L S
172
252
BLUE 41
224
82
AMBER 7
WATERVILLE
352
129
309
46
SCALE OF MILES
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
SCALE OF MILES
CARIBOU 35H S
PRESQUE ISLE 388
PRESQUE ISLE AAF 365
PRESQUE ISLE AAF – 517' 68H L S – 278 (126.18)
CANADA ME
237
189
LIMESTONE
125
279
305
195
99
42
129
BLUE 17
MILLINOCKET 344 (116.1)
HOULTON – 474' 57H
HOULTON FLY. SER.
HOULTON 272 (116.1)
MILLINOCKET – 404' 50H L S
AMBER 7
220
112
292
GREEN 1
EDMUNDSTON
GREENVILLE 30H L S
DEXTER 30H S
BISHOP
EAST CORINTH
TOPSFIELD
PRINCETON 40H
HUDSON
DIXMONT
BANGOR 239 (116.1)
EASTPORT 28H S
AUGUSTA 221 (116.1)
DEBLOIS 40H
WATERVILLE
ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
OVER
AUGUSTA–BANGOR AREA
MALONE-DUFORT 40H S
MASSENA 40H S
AUSTIN 30 S
BURLINGTON 323 (116.1)
NEWPORT 40 H S
CAN. N.Y.
STEWART
OGDENSBURG 30 S
DAMON
PLATTSBURG 50H L S
GRANDE ISLE
SARANAC LAKE 40H S
KEESEVILLE
WHEELER-SACK 50H
LAKE PLACID
WESTPORT
VERGENNES
ALBANY
BRISTOL
NORTHFIELD
HUNTINGTON
BURLINGTON – 334' 43 H L S – 278
MONTPELIER 257 (116.1)
BROWN
LEWIS
LANCASTER
BARRE-MONTPELIER 40H S
DEAN MEMORIAL
TWIN MTN.
WHITEFIELD
BETHEL
BERLIN 52H S
WHITE MOUNTAIN
FRYEBURG
CONCORD
PORTLAND
ALBANY 43
BOSTON 46
N.H.
VT.
ME
169
210
230
140
320
331
30
50
122
4000
5000
6000
3000
2000
1000
BLUE 4
ALBANY 7
PORTLAND 7
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT

MEDFORD 19


SEATTLE 2
SAN FRANCISCO 47
44°
43°
42°
41°
40°
39°
125°
124°
123°
122°
121°
120°
EUGENE 251
330
COTTAGE GROVE 29
AMBER 1
REDMOND 368
356
LAKESIDE
NORTH BEND
SUTHERIN
ROSEBURG
124
152
CHEMULT
BEAVER MARSH
TRI-CITY
MYRTLE CREEK
CURRY CO.
D.A.
COW CREEK
TRAIL 14
MEDFORD 263 (116.1)
GRANTS PASS
75
162
KLAMATH FALLS 242
255
MEDFORD AAF 278 (118.7, 126.18)
PIERCY
338
KLAMATH FALLS
73
243
LAKEVIEW
ORE.
CALIF.
C.A.P.
MT. SHASTA 278 (116.1)
ELKO 22
FORT JONES (W) 224
DEL NORTE CO.
SISKIYOU CO.
MONTAGUE
159
160
240
60
CALLAHAN 15
ALTURAS (NEW)
CEDARVILLE
ALTURAS No. 1
342
ARCATA 414
184
70
250
DUNSMUIR
94
SEATTLE
OAKLAND
320
MT. HOFFMAN
FALL RIVER MILLS
ARCATA 472
ARCATA 278 (126.18, 116.1)
EUREKA
DELTA
340
WHITMORE (W) 353
274
EUREKA 12
HUMBOLDT CO.
143
91
AMBER 8
REDDING 33
REDDING
271
SECRET VALLEY
BENTON
PINNEGAR
SUSANVILLE
AMEDEE
BIDWELL 272 (118.5, 126.18)
240
RED BLUFF 362 (116.1)
60
CORNING
SKY HARBOR
BECKWOURTH
CHICO
PATRICK
RANCHAERO
337
AMBER 1
DONNER SUMMIT 385
138
TO RENO
WILLOWS-GLENN CO.
OROVILLE
BLUE CANYON
BLUE CANYON 20
GRIDLEY
228
WILLITS
NEVADA CITY
TRUCKEE
WILLIAMS 326 (116.1)
156
COLUSA
CHEIM
GREEN 3
MENDOCINO
GRASS VALLEY
48
UKIAH
DALTON
244
ALICIA
BLUE CANYON 320
On request
64
TO SACRAMENTO
TO SACRAMENTO
318
WILLIAMS
333
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
EXTREMELY HAZARDOUS
ITEM WITH CAUTION
SCALE OF MILES
25
0
25
50

RADIO

CALIFORNIA

LOCATION	FREQ.,IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ARCATA (UAL)	472 (NZM)	MRL	(3)
Arcata Airport	278 (116.1)	CI;4°, 3	(3); 116.1,126.18 (8-17)
Arcata (H fac)(UAL)	414(NZO)(126.18	H;310°,.15	(4) Z mrkr 200' fr SE end Rnwy 31
BIDWELL (Red Bluff)	272 (118.5) (126.18)	C	(4);126.18,131.9(6-22)
BLUE CANYON	320 (BC)	MHT	(4)
BLUE CANYON FM	(- - -)	FM, 228°,19.5	Donner Summit
CALLAHAN FM	(- -)	FM, 140°, 15.1	Ft. Jones
DONNER SUMMIT	385 (DS)	BMRL-DT	(4)
EUREKA FM	(- - -)	FM, 184°,11.7	Arcata.
FORT JONES	224 (FJ)	SRAWZ	
MT. SHASTA	278 (SC)(116.1	BMLZ-VDT, 116°,2.2	(4); 116.1
RED BLUFF (Bidwell)	362(FH)(116.1)	SBRAZ-VDT,323°,2.5	(3); 116.1
REDDING FM	(- - - -)	FM, 323°,33.2	Red Bluff.
WHITMORE	353 (AWH)	MRLWZ	
WILLIAMS (Int.)	326(WS)(116.1)	SBMRAZ-VDT,244°,2.2	(4); 116.1

OREGON

COTTAGE GROVE FM	(- - -)	FM, 150°, 29	Eugene
KLAMATH FALLS	242 (FS)	SBRAZ-DT,342°,2.7	(4)
MEDFORD	263(MF)(116.1)	SBRAZ-VDT	(3); 116.1
Medford AAF	278 (126.18) (118.7)	AC; 158°, 2.4	(4); 126.18,131.9,118.7
TRAIL FM	(- - - -)	FM, 332°, 14	Medford

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
(P) Alicia (Marysville)	3.2 SSE;RR W,E	63	60h L5 S6	80,91 oct;100 oct on req.
(P) Alturas (new)	6.8 WNW;riv S	5034	63h	
" #1	1 W;RR S	4391	28 S6	80 oct.
Amedee Flight Strip	4 SE;RR N	4007	70h	
Arcata	7.6 NNW	217	60h R2	
Ash Creek,USFS (McCloud)	11.2 ENE	3850	30	Clsd Dec-May.Trees SE,NW (NC)
Beckwourth	0.8 ENE;RR S	4900	26 S6	73 oct.
Benton Airpark(Redding)	1.1 WSW;riv E	719	25 L3 S4	80,91 oct.
BIDWELL (RED BLUFF)	1.7 SSW;RR E	354	40h R2 L5 S4	80,91,100 oct.
★ Blue Canyon Int,13,SP-SL	1.1NNE;RR S,E	5280	34 R1 L3	Obsts N,E.
Cedarville	0.6 S;lake E	4260	26 S2	80 oct.Pwr line E.
Cheim (Marysville)	1.5 NE;hwy S	67	30 S6	80,91 oct.No sto.Levee N,NE.
Chester, USFS (NC)	1.5 SSW;RR N	4525	31	18' pole line W.
Chico	5 N;rd E	250	67h	
Colusa	1.2 SW;RR W	47	29 S4	80 oct.Pole line NNW
Corning	1.3 NE;RR W	300	30 L1 S2	80 oct.
Delton Com. (Williams)	1 ENE;RR SW	80	30 S2	80 oct.Pwr line S.
(P) Del Norte Co. (Crescent City)	2.5 NW	57	50h	
★ Delta Int,22,SP-SA	1SW;RR,hwy N	1320	18 L3	800-1000' mtns E,W
Dunsmuir,25B,SP-SA	4.5 N;RR W	3240	30 R1 L3 S2	80,91 oct.Poles E,N, lgtd.
Eureka	2 W; Bay E	20	24h	
Fall River Mills	1 N;riv E	3300	26	
Fort Jones (NC)	1.5 W;riv SW	2745	30	Pole line NW
Gasquet (Crescent City)	13 ENE;hwy S	390	25	Hazardous-bad appch.USFS (NC)
Grass Valley	0.8 W;hwy N	2600	18 S1	Ltd 80 oct.Trees sur fld.Pole line NE.
Gravelly Valley, USFS (Upper Lake)(NC)	20 N;lake S	2000	49	Road crosses NE/SW strip.
Gridley	0.7 ENE;RR W	97	26 S6	80,91 oct. Pole line N,S.
Hayfork, USFS (NC)	1.2 E;rd N	2350	23	Pole line W,mts E.
Humboldt County (Eureka)	3.4 ENE;RR SW	10	19 S4	80 oct.Poles NW.
Mendocino(Little River)	2.5 SE	572	53h	
Montague	1 W;RR N	2520	32 L1 S4	80,91 oct.
Nevada City	1.5 NW;rd S	3060	26 S4	80 oct.
Orleans, USFS (NC)				ABANDONED.
Oroville	3 SW;riv E	199	60h L3 S1	80,91 oct.Port.rnwy lgts prior req.
Patrick (Chico)	2 SSE;RR E	189	34 S6	80,91 oct. Poles N.
Pinnegar (Anderson)	1 S;canal E	435	23 S1	73 oct.
Ranchaero(Chico)	2.2 WSW;riv W	170	22 S4	80,91 oct. hwy NE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted. → NEW OR REVISED DATA

CALIFORNIA

AIRPORT NAME—CITY	LOCATION	ELEV.	CLASS	REMARKS
Ravendale (NC)	0.2 N;RR W	5260	18	
Redding	7.5 SE;riv S	500	61h L3 S1	
Round Valley (Covelo)(NC)	0.8 SW;hwy E	1385	30	
★ Secret Valley Int,52,	3.6 ESE Karlo	4435	50 L3	RV-ND
(P) Siskiyou Co. (Montague)	4.3 NE;RR W	2647	73h L5	
Sky Harbor (Quincy)	2.5 E;RR N	3400	28 S2	73 oct.Poles S.
Susanville	6.5 SE;hwy SW	4150	32 S6	73 oct.Pwr line N.
★ Truckee Int,16B,SP-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec-Apr.
Ukiah	1 S;RR E	612	40h L5 S4	80 oct. No sto.
Weaverville, USFS (NC)	1 SSE; hwy E	2040	22	30' poles S.
★ Williams Int,9,SP-SA	4 S;RR E	120	42 R1 L3	
Willows-Glenn Co.	1.3 WSW;RR E	130	45h L1	
Willits	1.3 ENE;RR W.	1356	20 S1	80 oct.Trees E,pole line W.

OREGON

★ Beaver Marsh Int,73,RV-ND	6.2 SSW Chemult	4630	54 L3	
Civil Air Patrol (Worden)	1 S;RR NW	4080	37 S6	80 oct.No sto.Pwr line NNE.
Grants Pass	1.6 N;RR W	1050	26 S5	80 oct. Poles, trees N.
★ Cow Creek Int,37B,SP-SA	2.5 ENE Glendale	1429	23 L3	Creek S.
(P) Curry Co. (Denmark)	3.8 WSW	214	51h L5	All lgts prior req.
Illinois Valley Landing Fld (Cave Junction)	4.3 SSW;riv 1E	1350	43	Tree NNE.USFS. (NC)
Klamath Falls	4.9 SSE;RR NE	4085	71h R1 L5 S1	80,91,100 oct.
Lakeside	0.25 NE;hwy W	20	30	Pole line S.
Lakeview	3.5 SW;RR E	4728	53h	
(A,N) MEDFORD AAF	3.2 N;RR E	1329	54h R2 L5 S4	80,91,100 oct.No mntne mil acft. Pole line NE
★ Myrtle Creek,Int,39A,	4 SW;riv,RR W	640	25 L3	Hill N(SP-SA)
(P) North Bend	1.2 WNW;bay NE	17	50h	
Piercy (Medford)	2.6 NW;RR E	1325	20 S4	80 oct.No storage.Poles SE.
★ Roseburg Int,41A,SP-SA	2.4 NNW;RR E	500	38 S6	80,91 oct. No storage.
Sutherlin Sky Ranch	3.8 ENE;rd E,S	575	18 S1	80 oct.
Tri-City (Riddle)	3.5 NE;RR N,W	700	19	Pole line N,S;cattle on fld.

ELKO

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ BOISE (Gowen)	350 (BE)	SBRAZ-DT,110°2.5	(3)
EAGLE FM	(- - - -)	FM, 321°, 11.5	Boise
→ GOWEN (Boise)	278(126.18) (118.3)	C	(4); 131.9, 126.18, 118.3
MOUNTAIN HOME FM	(- -)	FM, 110°, 41	Boise

NEVADA

BATTLE MTN.	281(BP)(116.1)	BMRLZ-VDT, 301°, 5.5	(4), 116.1
CARLIN FM	(- - -)	FM, 230°, 19	Elko
DEETH FM	(-)	FM, 39°, 30.5	Elko
ELKO	391(EL)(116.1)	SBRAPZ-VDT, 200°, 0.8	(4), 116.1
→ FALLON	230 (VA)	SBRAZ-DT,219°2.9	(4) Not manned cont.
HUMBOLDT (Int.)	209(HD)(116.1)	BMRLZ-VDT 228°, 2.6	(4):116.1
RENO (Hubbard)	254(RP)(116.1)	SBRAZ-VDT 161, 3.3	(4), 116.1
WADSWORTH FM	(-)	FM, 48°, 27	Reno
HUBBARD FLD (Reno)	278	CI	(4)(Wed,Sat,Sun 6-19. other days 8-1630)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs; (4)-3105,4495,6210,3117 5. kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bennett Flight Strip (Anderson Dam)	2.7 S,RR SW	4700	18	Pole line ENE.
Boise Airpark	1.8 WNW,RR S	2660	25 S6	73,80 oct.Trees SSE. NNW.
Bradley (Boise)	3.3 WNW,riv NE	2637	30 S6	80,91 oct.Trees SE.
→ Caldwell	1.3 W,RR N	2370	32 S6	80,91 oct.Trees NW, bldg NE.
Emmett	2.6 SW, RR NW	2300	28 S2	73 oct.
Floating Feather (Eagle)	2 E,hwy W	2635	38 S4	80 oct.Soft when wet.
Glenns Ferry	1.3 WSW,riv S	2556	34 S1	Ltd 80 oct.
(A) GOWEN (Boise)(A)	4.5 SSW	2857	77h R2	INACTIVE.
(A) Mountain Home AAF	10.7 WSW	3004	100h	INACTIVE. (A)
" Site 25,SL-PO	2 WSW	3240	48 L3	
Nyssa Arpk.(Parma)	6.1 NNW,RR W	2200	28 S4	80 oct.No sto.
Parma	0.6 SSE,RR NE	2225	23 S2	80 oct.25' poles NW.
→ Ritchey (Nampa)	2 E,hwy N	2535	28 L3 S6	80 oct.No bcn.Lgts prior req.

NEVADA

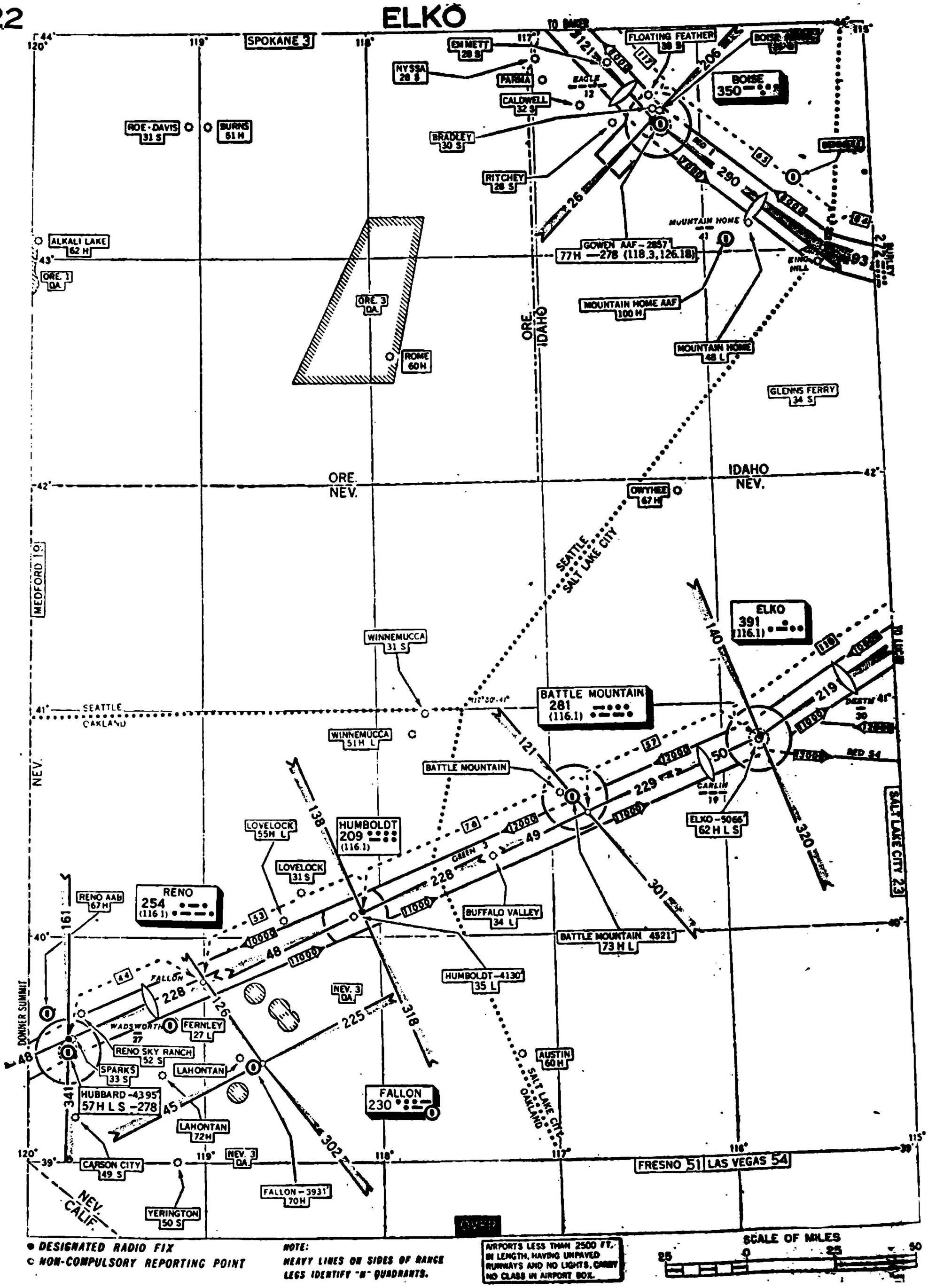
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Austin	7 WSW,riv NW	5730	60h	
Battle Mtn.	1.5 WSW,hwy N	4521	24 S2	73, 91 oct.
(P) " Flgt Strip.35, SF-SL	4 SE,RR N	4521	73h R1 L3	
★ Buffalo Valley Int, 32, SF-SL	15 W Bailey	4664	34 L2	
Carson City	3.1 NE,hwy W	4684	49 S6	80 oct.Mts N,hill W.
ELKO	1.8 W,RR S	5066	62h R1 L5 S4	73, 91 oct.
★ Fernley Int,22,SF-SL	3.3 E,hwy NW	4156	27 L2	
Fallon	6 SE,hwy S	3931	70h R1	Closed,emerg use only.
HUBBARD (Reno)	3.4 SE,RR N	4395	57h R1 L5 S4	80,91 oct.Fld lgts prior req.
★ Humboldt Int,28B, SF-SL	14 S Rochester	4131	35 R1 L3	
Lahontan (Fallon)	1.4 SSW,hwy N	4000	24 S4	80 oct.Poles ENE,WSW (Fernley)
" Flgt Strip	15.5 S,hwy N	4279	72h	80 oct.
Lovelock	1.5 ENE,riv W	3986	31 S2	
(P) " Site 26,SF-SL	9 SSW,RR NW	3906	55h L5	
Orovada (NC)	1.2 W,hwy E	4300	32	
Owyhee Flight Stp.	4.8 W	5379	67h	
(A) Reno AAB (A)	10.5 NNW,RR SW	5018	76h	INACTIVE.Mts sur fld
Reno Sky Ranch (Sparks)	8.5 NNE,hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
Sparks Airpark	0.6 N,RR S	4400	33 S6	80,91 oct.Poleline W.
Winnemucca	1 NE,RR NW	4303	31 S4	73 oct.
(P) " Site 32A,SF-SL	6 SW,RR N	4303	51h L5	
Yerington	1.2 N,RR W	4483	50 S1	73 oct.

OREGON

Alkali Lake Flgt Strip	7.5 N	4313	62h	
→ Burns	5.1 E	4141	51h L5	Contact lgts prior req
Roe Davis (Burns)	0.6 WSW,RR SE	4165	31 S6	80 oct.
Rome Flgt Strip	26.6 SW,hwy E	4050	60h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not charted. → New or revised data

ELKO



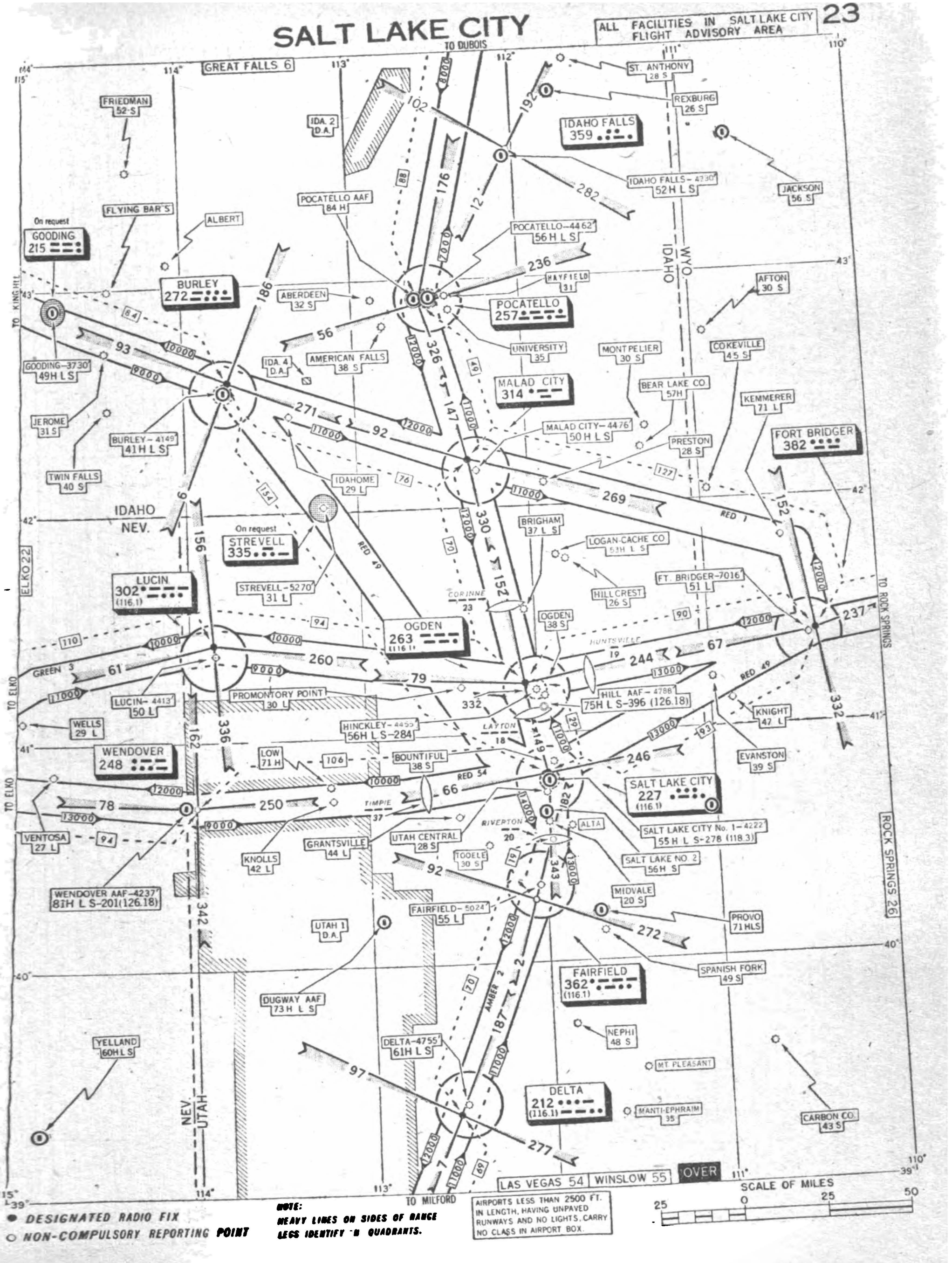
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES OR SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SALT LAKE CITY

ALL FACILITIES IN SALT LAKE CITY FLIGHT ADVISORY AREA



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SALT LAKE CITY

RADIO

IDAHO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURLEY	272 (BX)	SBRAPZ-DT,200°,2.7	(4)
GOODING (new)	215 (GG)	MHT	(4)
IDAHO FALLS (Mun.)	359 (IF)	SBMRAZ-DT,192°,2.6	(4)
MALAD CITY (Int.)	314 (WT)	SBRAZ-DT,131°,3.4	(4)
POCATELLO	257 (FQ)	BMRLZ-DT, 56°, 2.5	(4)
STREVELL (Int.)	335 (TV)	MHP	(4)

UTAH

CORINNE FM	(- - - -)	FM, 332°, 23	Ogden
DELTA	212 (VZ)(116.1)	SBRAZ-VDT, 7°,3.6	(4); 116.1
FAIRFIELD (Int.)	362 (JL)(116.1)	BMRLZ-VDT, 2°, 4.4	(4); 116.1
HILL, OGDEN	396 (126.18)	CA	(4); 126.18
HUNTSVILLE FM	(-)	FM, 640, 19	Ogden
LAYTON FM	(- - - -)	FM, 329°, 18	Salt Lake City
LUCIN (Int.)	302 (JB)(116.1)	BMRLZ-VDP,156°,2.4	(4); 116.1
OGDEN (Robert H. Hinckley)	263 (OG)(116.1)	SBRAZ-VDT,107°,3.4	(4); 116.1
RIVERTON FM	(- -)	FM, 163°, 19.5	Salt Lake City
ROBERT H. HINCKLEY,(Ogden)	284	CI	(4):(8:30-2130. Mon.&Tues. (1130-2130)
→ SALT LAKE CITY	227 (SL)(116.1)	SBRAZ-VDTX	(3); 116.1
Salt Lake City Arpt.#1	278 (118.3)	C; 163°, 3	(4); 121.9,118.3,126.1R, others on req.
TIMPIE FM	(- - -)	FM, 246°, 37	Salt Lake City
WENDOVER	248 (WV)	SBMRAZ-DT	(4)
Wendover Field	201 (126.18)	CA; 258°, 2.2	(3):126.18 (8-22, other hrs. on 24 hrs advance notice)

WYOMING

PORT BRIDGER (Int.)	382 (HM)	SBRAZ-DT,228°,2.4	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen	2.7 SW;rd W	4460	32 S6	73 oct. No sto.
Albert,(Richfield)	5.2 NE;RR W	4400	23 S2	Ltd 80 oct.
American Falls	2 NE;RR NW	4404	38 S1	73 oct. Poles S.
Arco (NC)	1.5 ESE;hwy W	5330	26	Hills NE.
Bear Lake Co. (Paris)	3.3 ENE;riv NE	5928	57h	
Buhl (NC)	5.7 W;crk W,E	3690	41	
Burley	1.3 ENE;RR SW	4149	41h R1 L5 S4	80,91 oct.Pole line WNW.
Flying Bar "S" (Shoshone)	4.6 NNW;riv S	3900	12 S1	73 oct.
Friedman (Hailey)	0.8 S;RR E	5300	52 S1	73 oct.
→ Gooding (new)	3.5 WSW;hwy N	3730	49h R1 L5 S6	81 oct.
Gooding (old)	4 SSW	3570	20	
Tyhee (Hayfield)	2 SE;RR W	4600	31	
(P) IDAHO FALLS	2 NW;riv,RR E	4730	52h R1 L3 S6	80,91 oct.Polelines S,NE.
★ Idahome Int,13,SL-PO	0.8 NNE	4460	29 L3	
Jerome	3.3 ENE	3980	31 S1	73 oct.
MacKay (NC)	0.8 SE;RR NE	5900	30	Rough.
→ ★ Malad City Int,9,SL-GT	2.6 WSW;riv WSW	4476	50h R1 L3 S1	73 oct.
POCATELLO	5.8 NW;RR S	4462	56h R1 L5 S6	80,91 oct.
(A) " AAF (A)	8.1 WNW	4445	84h	INACTIVE.
Preston	1.7 WNW;riv W	4800	28 S2	80 oct.
Rexburg	0.8 S;RR NW	4900	26 S4	80 oct.Rolling. No sto.
→ St.Anthony	1.1 SSE;RR W	4965	28 S4	73 oct.Poles,trees NNE.
★ Strevell Int,10, SL-PO	0.3 NNW;hwy W,S	5270	31 R1 L2	
Thousand Springs (Hagerman) (NC)	4.5 SSE;riv N	3000	30	
Montpelier	0.6 NNE; RR WSW	5900	30 S1	73 oct.Hills, trees S,SW,NE

IDAHO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Twin Falls	6.5 S;creek N	4000	40 S6	80,91 oct.No sto.
University (Ham's)(Pocatello)	1 ENE;hwy W	4600	35 S2	Hills N,S.No fuel.
Victor (Bennett Fld)(NC)	0.8 SE;hwy W	6198	25	UNUSABLE.

NEVADA

★ Ventosa Int,48,SF-SL	0.5 N;RR S	4000	37 L3	
★ Wells Int,46B,SF-SL	1.5 S;rd W	6005	29 L2	
Yelland (Ely)	3.5 NNE;hwy E	6358	60 L3 S6	80 oct.Fld lgts prior req.

UTAH

Bountiful Sky Haven	2.6 WSW;rd E	4222	38 S4	80 oct.Pole line N,NW,SE.
Brigham	3 NW;RR S	4220	37 L3 S6	80 oct.
Caroon County (Price)	2.8 E;RR W	5800	43 S6	80 oct.
Delta	4.8 ENE;hwy NW	4755	61h R1 L5 S2	80,91 oct.
(A) Dugway (Tooele)(A)	41.5 SW;hwy E	4338	73h L5 S4	73,91,100 oct. CLOSED.
Duchesne (NC)	2.2 NNE;riv W	5700	55	Pole line W,NW.
★ Fairfield Int,59,LA-SL	6 NE;RR SE	5024	55 R1 L3	
★ Grantsville Int,60,SF-SL	3 N;RR E	4229	44 L3	Poles E.
(A) Hill (Ogden)(A)	6.5 S	4788	75h R1 L5 S6	63,73,91,100 oct.JP-1.
Hillcrest (Logan)	2.7 NE;RR W	4780	26 S6	80 oct.Mtn SSE.
(F) HINCKLEY (Ogden)	3.5 SW;RR NW	4455	56h R2 L5 S6	80,91 oct.
★ Knolls Int,56,SF-SL	5 ENE;RR S	4360	42 L3	
Logan-Cache Co.(Logan)	4 NNW;RR E	4460	53h L5 S6	80 oct.
Low Flight Strip	11.8 W;hwy S	4241	71h	
★ Lucin Int,52,Ogden Cut-off, SF-SL	3.5 E;RR S	4413	50 R1 L3	
Manti-Ephraim (Ephraim)	2.8 SW;RR SE	5500	35 S2	No fuel.
Midvale	3 WSW;RR NW	4500	20 S4	73 oct.No sto.
Mt. Pleasant	1.5 SSW;RR NW	5857	48 S2	80 oct.
Myton (NC)	1 E;riv N	5090	31	
Nephi	2.5 NW;RR E	4800	48 S1	Ltd 80 oct.
Ogden Airpark	4 S;hwy NE	4700	31 S4	73 oct.No sto.
★ Promontory Point Int,3. SL-PO	0.5 W;RR S,E	4280	30 L3	
(P) Provo	2.8 WSW;RR N	4490	71h L5 S6	73 oct.Fld lgts prior req.
SALT LAKE CITY #1	2.5 WNW;RR S	4222	55h R2 L6 S6	73,80,91 oct.Rdo rec req.
" No. 2	10.5 SSW;RR W	4617	56h S4	73 oct.
Spanish Fork	2 NW;RR SE	4560	49 S6	80 oct.
Tooele (NC)	1.4 WSW;RR W	4800	30 S4	80 oct.No sto.Mtns SE.
Utah Central (Salt Lake City)	4 SW;RR N	4240	28 S4	73 oct.Pole line N,NW.
(A) Wendover (A)	0.5 S;RR N	4237	81h R2 L5 S6	73,91,100 oct.JP-1.CLOSED.

WYOMING

Afton	0.3 SW;hwy E	6239	30 S5	73,80 oct. 40' trees N.
Cokeville	2.5 SSW;riv E	6250	45 S1	Ltd 73 oct.
Evanston	3.6 SSW	6800	39 S1	73 oct,200'hill SSE.
★ Fort Bridger Int,9,SL-OH	5 N	7016	51 R1 L3	Carter 3 mi NNW.
Jackson	9 N;riv W	6400	56 S1	73 oct.
★ Kemmerer Int,B17,BX-RT	1.5 NNW;RR S	7276	71 L3	
★ Knight Int,6,SL-OH	5 S;riv NNE	7615	47 L3	
Big Piney (NC)	2 N	6900	37	
→ Alta Arpk(Sandy,Utah	2.3 E;RR,hwy W	4800	30	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page x111)(NC)-Not charted. → New or revised data

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
EAGLE (6 mi. ENE Eagle)	108.3 (EQ) (111.1,116.1)	VAR-VDT	4495,3117.5,116.1,131.7
GRAND JUNCTION (12.7 mi. SW of Walker Field)	108.7 (EJ) (111.1.116.1)	VAR-VDT (ILS)	3105,4495,3117.5:131.7, 116.1 only.
WYOMING			
CASPER (Wardwell Field)	269 (CW)	SBRAZ-DT,263°,2	(4)
DOUGLAS (Int.)	251 (DQ)	HT	(4)
LARAMIE (Gen'l. Brees Field)	245 (LR)	SBMRAZ-DT, 137°, 2.2	(4)
MIDWEST FM	(- - - -)	FM, 339°, 15.1	Casper
PT.OF ROCKS FM	(-)	FM, 66°, 15.4	Rock Springs
ROCK SPRINGS (new)	290(RT)(116.1)	SBRAZ-VDT, 246°,2.8	(4); 116.1
SILVER CROWN FM	(- - -)	FM, 282°, 12	Cheyenne
SINCLAIR (Int.)	209(XP)(116.1)	SBMRAZ-VDT, 80°, 1.7	(4): 116.1
PARKERTON,WYO.FM	(-)	FM: 76°, 16.8	Casper

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs., Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
WALKER, COLO.	110.3 .•.-	335	110°Mag	IM	VV ..... (.69)	OM -- (4.5?)
					VVR	OMR

3-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs. (4)-3105,4495,6210,3117 5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — COLORADO

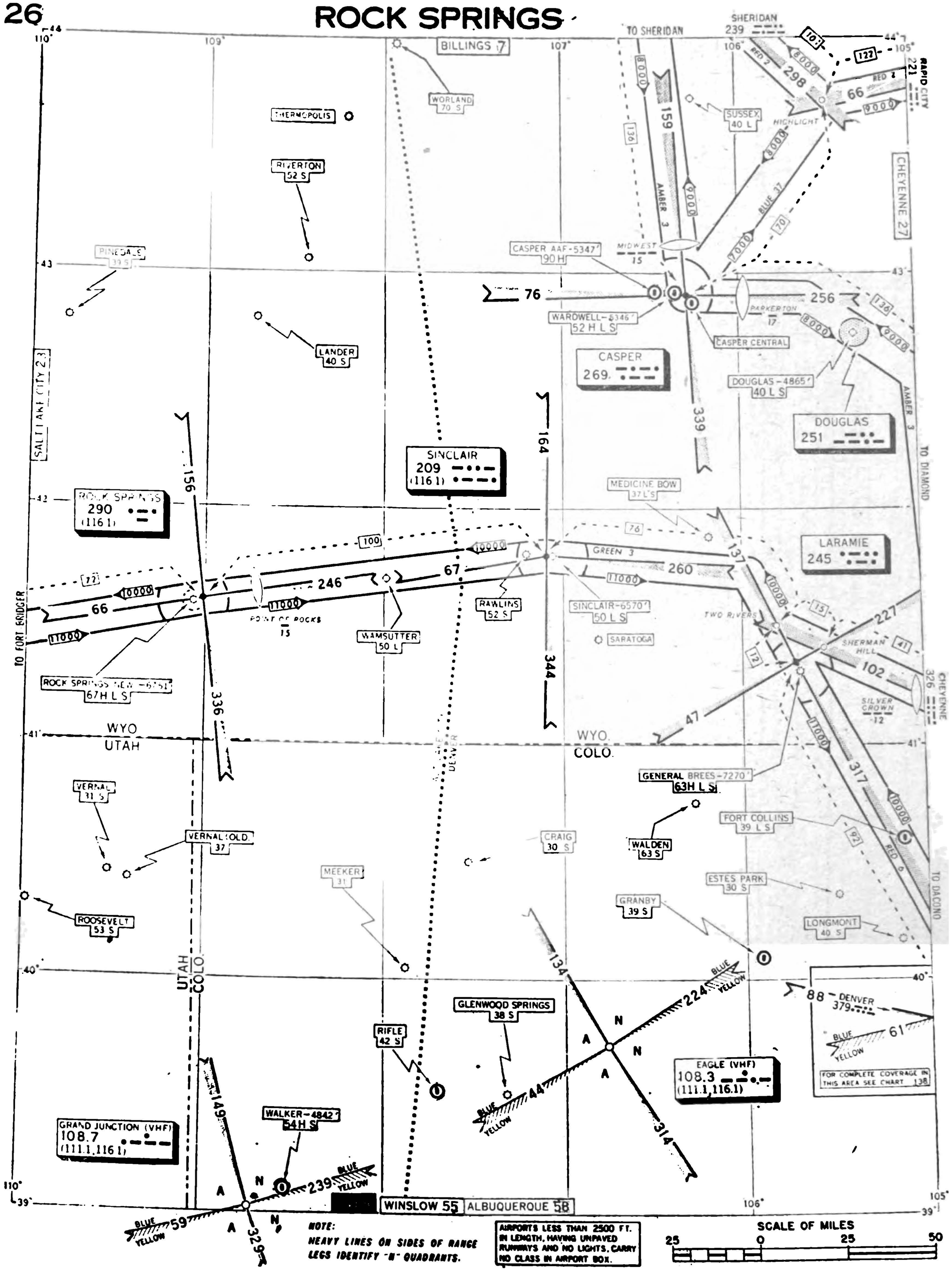
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Craig	1.8 SE;riv N	6300	30 S6	80, 91 oct.
Estes Park	2 SE;riv N	7635	30	Closed till June '47
(P) Ft.Collins,5,DV-LR	4 WNW;rd S	5150	39 L2 S6	73,80 oct.Poles SE.
Glenwood Sprgs.	2 S	5900	38 S1	73 oct.
Granby	1 ENE;riv W	8200	39 S1	80 oct.Poleline E.
Leadville (NC)	3 NNW;hwy E	10,000	45	
Longmont	2.9 W;RR N	5030'	40 S6	80,91 oct.Trees NW.
Meeker	1.3 E;hwy S	6300	31	
Rifle	3.3 E;riv N	5400	42 S1	80 oct.
Teter (Fairplay)	3 SSE;hwy E	9700	67	(NC)
Walden	1.5 N;hwy W	8250	63 S1	80 oct.
(P) WALKER (Grand Junction)	2.8 NNE;rd W	4842	54h L3 S6	80,91 oct.
UTAH				
Roosevelt	1.3 NE;hwy S	5000	53 S2	80,91 oct.Poleline SE,E
Vernal (new)	1 SSE;hwy N,E	5280	36 S6	80,91 oct.
Vernal (old)	7 ESE;riv 4 E	5200	37	

WYOMING

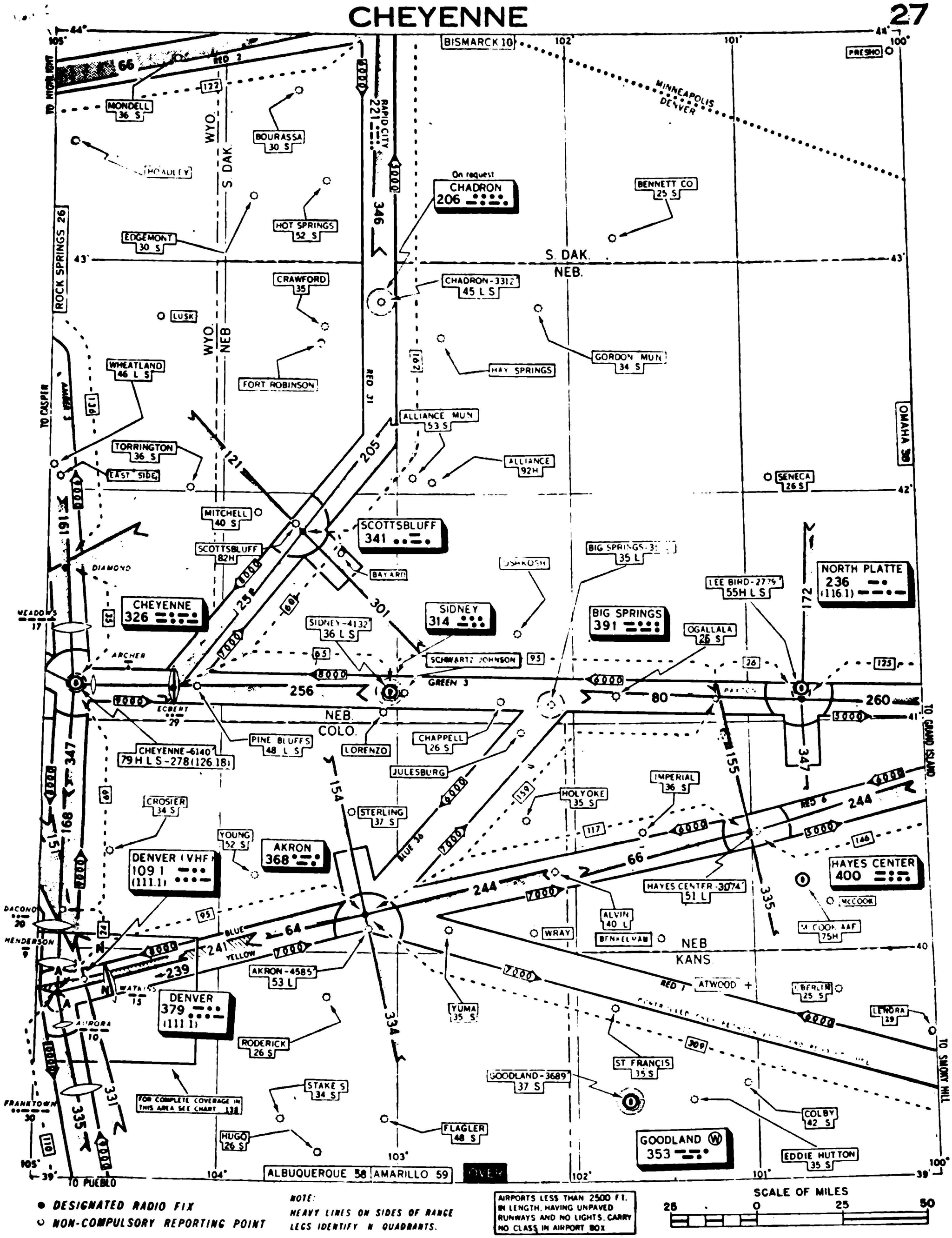
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Casper AAF(A)	9 NNW;hwy SW	5347	90h	CLOSED.
* Douglas Int,11B, CX-GT	1.5 SE;RR W	4865	40 R1 L3 S1	73 oct.
General Brees (Laramie)	4 W;riv SE	7270	63h R1 L5 S6	73,91,100 oct.
Lander	1.5 S;riv W	5550	40 S2	73 oct.
Medicine Bow,31, SL-OH	1.3 SE;RR N	6640	37 L3 S1	73 oct
Pinedale	5.5 SSE;hwy NE	7200	39 S2	73 oct.
Rawlins	2.3 NE;RR 1 S	6780	52 S4	80,91 oct.
Riverton	3.8 NW;hwy SW	5453	52 S4	Ltd 73 oct.
(P) ROCK SPRINGS (new)	8.8 E;RR N	6751	67h R1 L5 S6	73,91 oct.
Rock Springs (old)	3.8 NNW	6370	58	(NC)
* Sinclair Int,27, SL-OH	3.8 ENE;RR S	6561	50 R1 L3 S1	73,100 oct.
* Sussex Int,22A,CX-GT	2.5 NNE;riv 5 E	4800	40 L3	
Thermopolis	1 N; riv W	4400	33 S1	80 oct.
* Wamsutter Int,22, SL-OH	2.4 NNW;RR E	6812	50 L3	35' pole line S.
WARDWELL (Casper)	5 NNW;hwy E	5346	52h R1 L5 S6	73,91 oct.
(P) Worland (NC)	2.8 S;canal NW	4185	70 S1	80, 91 oct.
→ Casper Central (Casper Wyo.)	3 NE;RR S	5100	28 S1	80 oct.Poles SE.
→ Saratoga Mun.(Wyo.)	0.7 SSW,hwy E	6900	41	Poleline E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII)(NC)-Not Charted. → NEW OR REVISED DATA

ROCK SPRINGS



CHEYENNE



- ● DESIGNATED RADIO FIX
- ○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY N QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX

SCALE OF MILES
25 0 25 50

RADIO — COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AKRON (Int.)	368 (RN)	SBMRAZ-DT, 154°,3.6	(4)
AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DACONO FM	(. . -)	FM, 348°, 20	Denver
→ DENVER (Stapleton)	379(DV)(111.1)	SBMRAZ-VDTX;159°,2.5	(3);131.7
→ DENVER (9 mi ENE Stapleton	109.1(DV) 111.1	VAR-VDT	(3);131.7
FRANKTOWN FM	(. . - - -)	FM, 155°, 29.6	Denver
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

KANSAS

GOODLAND	353 (ON)	HW-T	

NEBRASKA

BIG SPRING (Int.)	391 (BG)	BHT	(4)
CHADRON	206 (HC)	MHT	(4)
HAYES CENTER (Int.)	400 (KB)	SBMRAZ-DT,64°, 2.1	(4)
NORTH PLATTE (Lee Bird)	236(NQ)(116.1)	SBRAZ-VDT,352°,2.2	(4); 116.1
SCOTTSBLUFF	341 (TF)	SBMRLZ-DT, 301°, 3	(4)
SIDNEY (Int.)	314 (SD)	BH-DT, 350°,0	(4)

WYOMING

ARCHER LFM	(-)	LFM, 76°,5.6	Cheyenne
→ CHEYENNE	326 (CX)	SBRAZ-DT	(3)
Cheyenne Airport	278 (126.18)	C; 76°, 1	(4);116.1,131.9,126.18
EGBERT FM	(. . -)	FM, 76°, 29	Cheyenne
MEADOWS FM	(- - - -)	FM, 341°,16.8	Cheyenne

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;(3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.;Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — COLORADO

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
★ Akron Int.,9,DV-GI	3.9 SE; RR N	4585	53 R1 L3	
★ Alvin Int.,15,DV-GI	3.5 NNE	3600	40 L3	Rds S, N.
Burlington (NC)	0.5 W	4160	32	Pole line S, N.
Crosier (Greeley)	3.5 E; RR N	4648	34 S6	73 oct.
Doughty's (Julesburg)	12 ESE	3600	18	PRIVATE,Use in emergency.
Flagler	0.8 S; RR N	4975	48 S1	73 oct. 20' pole line E.
Holyoke	1.8 ESE; RR NW	3720	35 S1	80 oct.
Hugo	1.5 E; RR S	5034	26 S1	80 oct.
Julesburg	2.8 SW; RR SE	3490	24 S4	73 oct.No sto.Pwr line S.
Roderick (Lindon)	4.3 N; riv E	4900	26 S1	73 oct.
Stake's Prairie(Limon)	2.2 ENE; RR S	5375	34 S4	73 oct.
(F) Sterling	2.8 W; RR S	4020	37 S6	73,80 oct.
Wray	1.2 NNW; RR S	3400	30 S1	Ltd 73 oct.
Young (Fort Morgan)	6 N; hwy E	4460	52 S4	73 oct.
Yuma	1.4 SSE; RR N	4150	35 S6	73 oct. Poles S, SW.

KANSAS

Atwood	2 N;hwy W	2900	26 S1	73 oct.Data unverified.
Colby	1.8 N; RR S	3150	42 S2	80 oct. Poles SW, W.
Eddie Hutton (Brewster)	1 SE; RR N	3420	35 S2	73 oct.
Goodland	2 NNE; hwy W	3689	37 S6	80,91 oct.Trees NW.
Lenora (NC)	1.2 NNW; hwy S	2325	29	
Oberlin	0.9 NW; RR SE	2684	25 S1	80 oct. Pole line SE, NE.
St. Francis	1 SSE; riv NW	3400	35 S2	80 oct.

NEBRASKA

Alliance	4.6 SE; RR N	3930	92h	
" mun	2.8 SW; RR,hwy E	3965	53 S6	80 oct.
Bayard	1.3 SSW; RR N	3760	25 S2	No fuel. Poles N,E,NW,SE

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page xiii)(NC)-Not charted. → NEW OR REVISED DATA

NEBRASKA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Benkleman	1.2 NNE; RR SE	2990	28 S1	80 oct.
★ Big Springs Int,55,SL-OH	3 WNW; hwy N	3590	35 R1 L3	Pole line E.
Chadron,15,CX-HR	4.8 W; hwy S	3312	45 R1 L3 S4	73 oct.
Chappell	3 E; RR SW	3830	26 L1 S2	80 oct. Pole line W.
Crawford	3.8 NNW; hwy E	3676	35	Poles E, W.
(A) Ft. Robinson (A)	2 S; RR N	3920	18	
Gordon	1.3 E; RR N	3549	34 S4	73,80 oct. Poles N,S,W.
★ Hayes Center Int,21,DV-GI	3 ENE; rd S	3074	51 R1 L3	
Hay Springs	2.5 W; hwy E	3840	17 S2	80 oct. Pole line N.
Imperial	1 ESE; RR SW	3280	36 S4	80 oct.
(P) LEE BIRD (North Platte)	3.2 ESE; riv SW	2779	55h R1 L5 S6	73,80,91,100 oct.
Lorenzo	0.6 WNW; RR E	4400	17 S1	Ltd 73 oct. Cattle on fld.
McCook	2.2 E; RR,hwy S	2586	42 S4	80 oct. Windmill N.
(A) " AAF (A)	9 NNW; hwy E	2784	75h	INACTIVE.
Mitchell	1.6 S; riv N	3950	40 S6	73,80 oct. Trees, poles NW.
Modisett (Rushville)(NC)	2.4 NE; RR S	3475	30	Bldgs, pole line E.
Ogallala	2 W; RR S	3250	26 L1 S6	80 oct. Poles S, SE, SW.
Oshkosh	1.8 SE; riv S	3375	21 S1	Ltd 80 oct. Poles NW,NE.
Schwartz-Johnson (Sidney)	1.6 SSE; RR,hwy N	4120	32 S1	73,80,91 oct.
SCOTTSBLUFF	3.3 E; hwy S	3945	82h R1	
Seneca	2.2 NNW; riv S	3200	26 S1	Ltd 80 oct. Twr NNW.
★ Sidney Int.,50,SL-OH	3 W; RR N	4132	36 R1 L3 S1	Ltd 73,80 oct.
Valentine (NC)	1.5 SSE; hwy E	2579	18	Not maintained.Rough.PolesNE

SOUTH DAKOTA

Bennett Co. (Martin)	4.4 SSE; riv N	3325	30 S1	73 oct. Pole line sur fld.
Bourassa (Custer)	1 ESE; hwy N	5301	30 S2	73 oct. Poles W, NW.
Edgemont	1.1 SW	3575	30 S2	73 oct.
Hot Springs	5.5 SSE; riv N	3075	52 S2	73 oct.

WYOMING

(P) CHEYENNE	1 N; lakes WNW	6140	79h R2 L5 S6	73,80,91,100 oct. Poles W.
Hoadley (Dull Center)	9.4 NE	4176	24 S1	73,80 oct.
Mondell (New Castle)	6.2 WNW; RR N	4260	36 S2	73 oct.
(P) Pine Bluffs,44,SL-OH	4.2 WSW; RR S	5128	48 L3 S2	80 oct. Pole line N.
(P) Torrington	3.4 S; hwy W	4350	36 S1	73,91 oct. Pwr line S, W.
Wheatland,6,CX-GT	3.4 NNW; riv N	4648	46 L3 S6	80 oct.
Lusk (Wyo.)	2.9 E;RR S	5000	47 S1	73 oct.Poles SE.
→ East Side(Wheatland,Wyo.)	0.7 E;RR W	4750	21 S1	80 oct.
→ Presho Mun (S.D.)	0.8 NW;RR S	1800	22 S1	80 oct. Poles N,NW,S.

RADIO

IOWA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ATLANTIC	257 (IZ)	MHT	
CALIFORNIA FM	(- - - -)	FM, 333°, 18	Omaha, Nebr.
GLENWOOD FM	(- -)	FM, 146°, 23.8	Omaha, Nebr.
HANCOCK FM	(-)	FM, 73°, 30.5	(3)
→ SIOUX CITY	335 (YX)	SBMRLZ-DT	(4);131.9,126.18,118.3
Sioux City Airport	396 (126.18)(118.3)	AC: 337°, 1.9	Sioux City
SLOAN FM	(- -)	FM, 157°, 8.8	

KANSAS

MARSHALL (Fort Riley)(Army)	215 (FPY)	SBMRAZ	
Marshall Field	396 (126.18)	CA: 196°, 4	(3); 126.18
PHILLIP BILLARD (Topeka)	278	CI	(3) (sunrise-sunset)
TOPEKA	109.1 (FK)	VARW; 211°, 6	
WALDO	108.7 (LC)	VARW	

MISSOURI

TARKIO	281(TX)	MHT	(4)

NEBRASKA

GRAND ISLAND	260 (GI)(116.1)	SBMRLZ-VDT	(4); 116.1
Grand Island AAP	278 (126.18)	CA (ILS): 165°, 1.3	(3); 126.18 (7-24)
KEARNEY (Army)	536 (DKB)	HW; 130°, 5.3	
→ Kearney AAP		DECOMMISSIONED	
→ LINCOLN	385 (HK)	SBMRLZ-DT: 170°, 2.6	(4)
MEAD FM	(- - -)	FM, 252°, 23.4	Omaha
OFFUTT (Omaha)	396 (126.18)	CA	(3); 126.18
OMAHA	320 (OH)	SBRAZ-DT	(3)
Omaha Airport	278 (126.18)	C (ILS); 146°, 6.9	(4);116.1,181.0,126.18
OVERTON	278 (OV)	MHT	(4)

SOUTH DAKOTA

SIOUX FALLS	245 (YL)	SBRAZ-DT, 93°, 2.3	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs.)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE	FAN	COMPASS LOCATORS
OMAHA, MUNI.	110.3	335	135° Mag.	IM .....(.06)	MM	OM -- (4.90)
					MKR	OMK
GRAND ISLAND AAF, NEBR.	110.3	335	349° Mag.	IM (.08)	MM .....(1.00)	OM -- (4.50)
					MKR	OMK

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs. (1)-3105.4495.6210.3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

IOWA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Atlantic	4.6 NW; RR S	1353	21 S6	80,91 oct
" Muni	1.9 W; RR E	1153	33 R1 L3	Beacon 1/4 mi W
Briggs (Piscus)	4.2 NE; RR E	1370	21 S2	80 oct. Trees N.
Clarinda	0.8 SE; RR W	1060	26 S4	80 oct.
Council Bluffs	3 SE; RR S	980	37 S6	80 oct. Bldgs SW.
Denison	2.4 WSW; riv SE	1200	20 S2	80 oct. Trees SSW.
Fuller (Milford)	0.7 NNW; hwy E	1440	36 S6	80 oct. Trees, poles E,W,S.
Geisinger (Storm Lake)	0.5 N; RR E	1240	13 S2	73 oct. Poles W,E.
Harlan	5 SSW; hwy E	1196	18 S2	73 oct.
Hart (Spencer)	1.6 S; hwy N	1100	26 S4	80 oct. Pole line NE,N.
John E. Peters (Ocheyedan)	1.5 N; hwy S	1425	24 S2	80 oct. 25' pole line S.
Liberty (Sutherland)	2.1 WSW; RR W	1465	23 S6	80 oct. 35' pole line E.
Manning	0.6 SW, RR W	1327	25 S2	73 oct.
McKisick (Rock Rapids)	3 N; riv W.	1161	31 S4	80 oct. Trees W.
Missouri Valley	1.5 S; RR W	961	16 S2	80 oct.
Nicholson (Ida Grove)	1.9 WSW; RR W	1120	20 S1	80 oct.
Okoboji Airways(Spirit Lake)	2.8 SW; hwy E	1450	20 S2	80 oct. Poles NE.
Oliver Ranch (Onawa)	5 SE; hwy W	1046	26 S1	Ltd 80 oct. Trees sur fld.
Randolph (NC)	1.7 NNE; RR W	1056	20	
Red Oak	1.5 W; RR E	1044	25 S2	80 oct. Pole line N.
Sheldon	5 NNE; RR W	1446	33 S6	80 oct. Pole line S,W,SW,SE.
(A) SIOUX CITY	7 S; RR E	1097	69h R2 L5 S4	80,91 oct. 91,100 oct.military acft.
(P) Spencer	2.9 WNW; RR S	1355	40 S6	80,91 oct.
Thorne (Moneta)	2.5 S	1410	25 S2	80 oct. Pole line, trees W.
(P) Western Union (Le Mars)	1.3 SW; RR SE	1190	30 S6	80 oct. Low obst.
Cherokee	1 S; RR W,S	1278	19 S1	80 oct.

KANSAS

Belleville	1.8 WSW; hwy S	1520	24 S2	73 oct.
Bern	0.6 S; RR N	1300	26 S1	80 oct. Pwr line N.
→ Blosser (Concordia)	1 SSE; hwy W	1510	26 L S2	80 oct. Port rnwy lgts.
Clay Center	1.5 W; hwy S	1200	30 S2	80 oct. Poles S, NW.
Downs	Adj SW; RR N, NW	1550	20 S2	80 oct. Data not verified.
Elkins (Wakefield)	1 SSE; riv NE	1170	13 S1	80 oct. Poles W.
Hiawatha	1.3 WSW; RR E	1110	24 S1	80 oct. Pwr line N.
Holton	0.9 E; RR N	1020	21	Trees N.
Huntoon (Topeka)	5.4 W; riv N	1000	18 S6	80 oct. Pwr line N.
Larkinburg	0.3 E of Holton	942	27 S2	80 oct.Bi-linea N. Data unverified.
Lawrence	2.5 NNE; hwy S	840	32 L3 S6	80 oct. No beacon.Poles W.Lgts prior req.
Manhattan	5.5 WSW; RR SE	1050	31 S6	80 oct.
Mankato	0.8 ESE; RR S	1780	22 S4	73 oct.
(A) Marshall (Ft. Riley)(A)	1.8 SE	1062	45h R2 L5 S6	73,91,100 oct. Ditch E,S.
Moritz (Beloit)	1.2 NW; RR S	1420	24 S2	73 oct. Trees E.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (see page XIII)(NC)-Not charted → New or revised data

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) Norton	0.7 NNW; hwy E	2365	52 S3	73 oct. Pole line E, S.
PHILLIP BILLARD (Topeka)	3.5 ENE; RR S	879	42h R1 L5 S6	80, 91 oct.
Phillipsburg	1.5 S; RR N	1882	33 S1	80 oct
Pottawatomie (Manhattan)	1.4 NE; RR SE	1100	20 S4	80 oct. Poles SE, NW, NE.
Seneca	2.5 W; RR S	1250	24	Poles N, S.
Smith Center	1 SSW; RR NW	1806	27 S1	80 oct.
Summerfield	0.3 SSE; RR W	1450	20 S2	80 oct. Pole line N, NW.
Wood Airpark (Clay Center)	3.5 N; hwy W	1260	15 S6	80 oct. No sto. Pole line W.

MINNESOTA

McDowell (Luverne)	8 NW; hwy W	1440	25 S4	80 oct.
Pipestone	1 SE; RR E, W	1735	20 S4	Ltd 80 oct.
→ Worthington	1.4 N; lake SSW	1580	26 S1	80 oct.

MISSOURI

Craig	6 NE; RR SW	845	25 S1	73 oct. Pole line WNW.
Tarkio Io. MC-OH	1.2 ENE; RR W	918	40 R1 L3 S4	80 oct. Trees N.

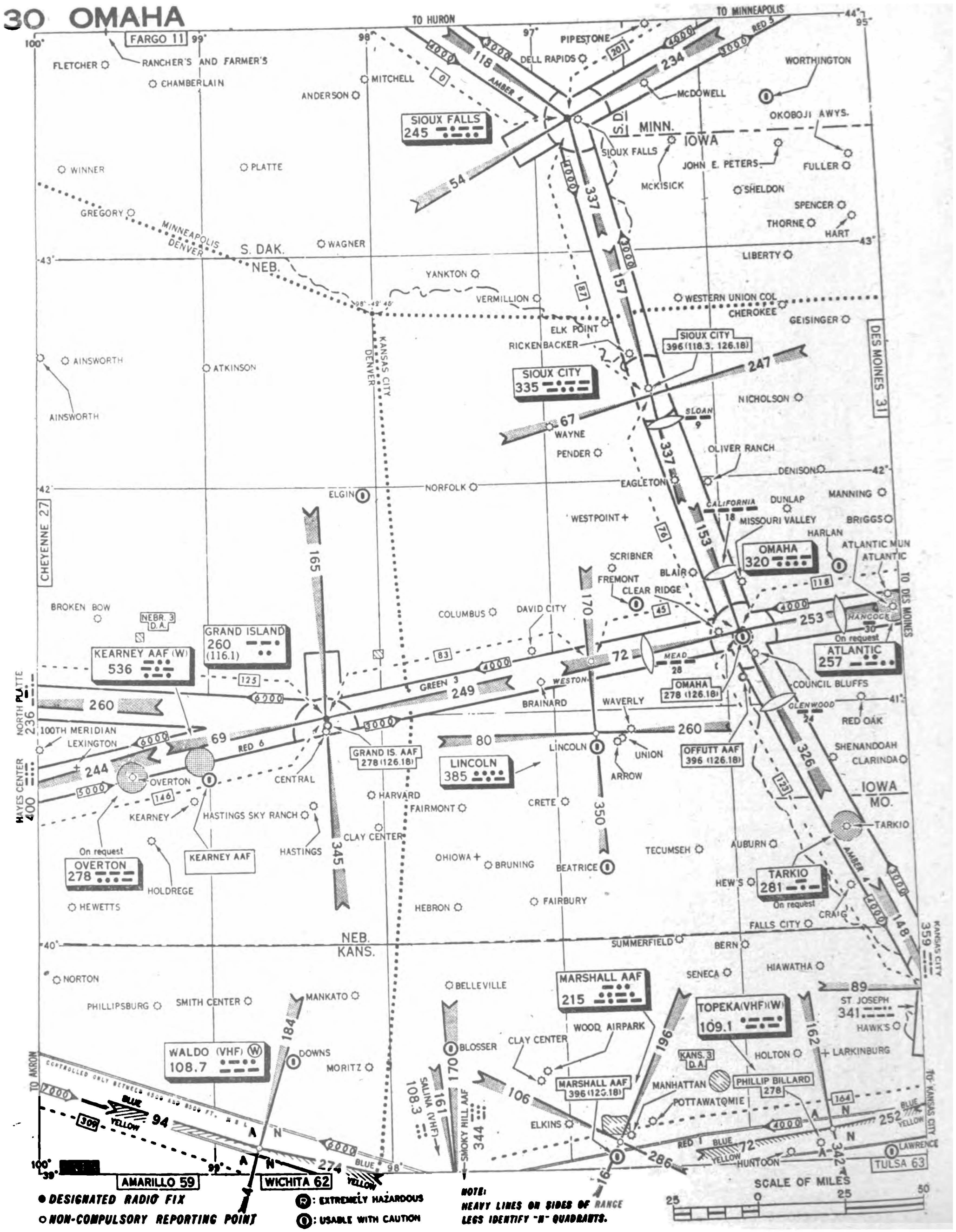
NEBRASKA

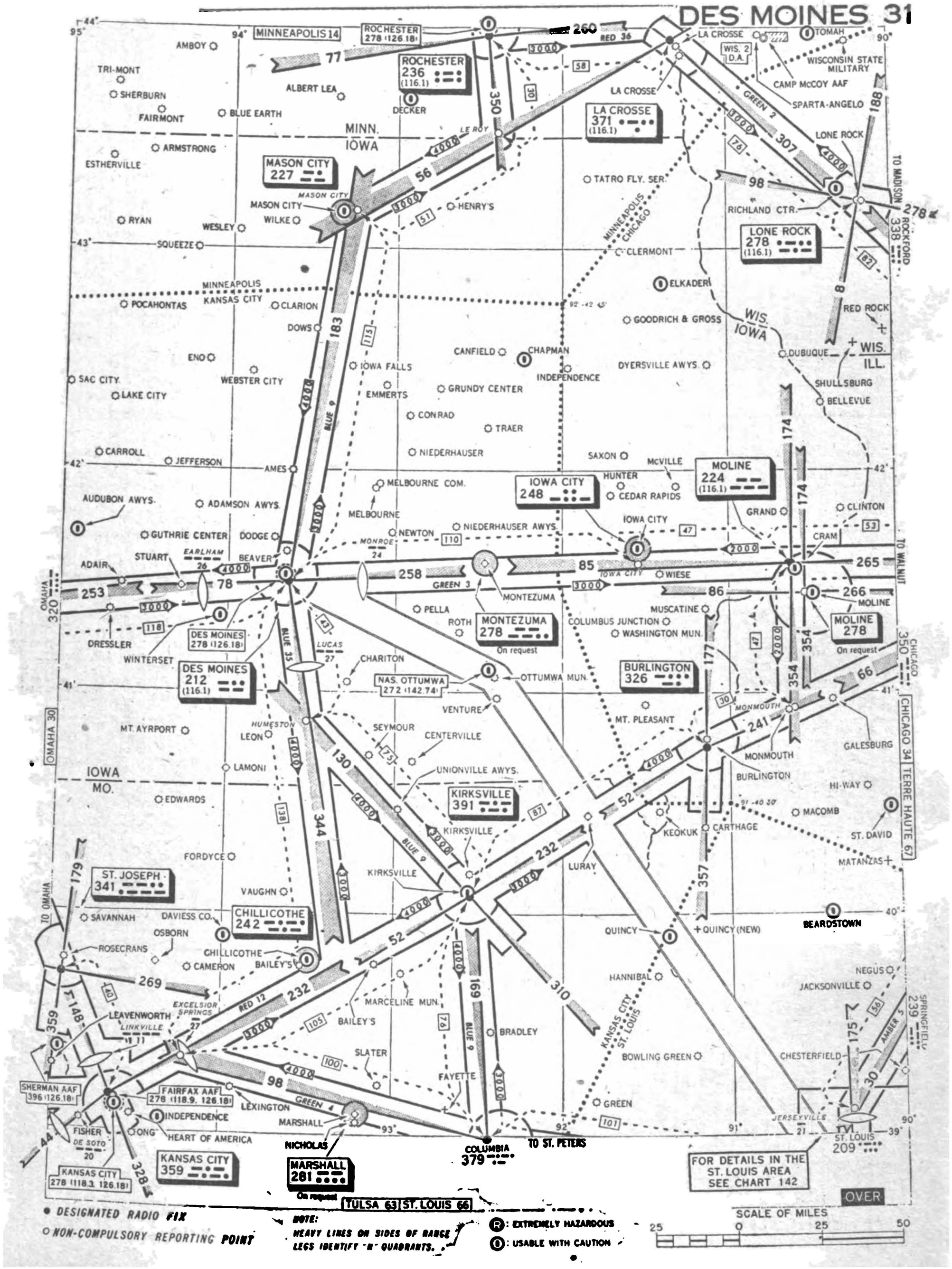
Ainsworth	1 WNW; RR S	2580	33h	80 oct. Pole line S
" mun	1 ENE; hwy S	2521	22	73,80 oct. Port rnwy lgts.
→ Arrow (Lincoln)	4.8 NE; hwy E	1160	25 S6	Trees S, pole line E,SE,N,NW.
Atkinson	14 SW; riv NE	2109	22	80 oct. Pole line N, NW, NE.
Auburn	2.7 E; riv SW	960	39 S6	80 oct. Twrs S, SW. Rnwy data not ver.
(P) Beatrice	3.5 N; hwy E	1400	42 S4	80,91 oct. Windmill NW.
Blair	3 NNW; RR E	1050	4 S6	
★ Brainard Int., 80, SL-OH	5.5 SW; hwy W	1640	51 L3	80 oct.
Broken Bow	2 N	2400	30 S6	
Bruning	0.7 E; RR N	1544	66h	73,80 oct. Pole lines W, S, N, E.
Central (Grand Island)	1.7 NE; RR S	1851	33 S6	73 oct.
Clay Center	1.5 E; hwy N	1800	26 S2	80 oct. Pole line E.
Clear Ridge (Omaha)	5.2 NW, RR N	1230	24 S6	Pole line SSE, SSW.
Columbus	1.3 NE; RR S	1445	26 S6	73 oct. Lgts prior req.
Crete	1.5, RR NE	1368	24 L3 S2	80 oct. Windmill E.
David City	1.5 N, hwy W	1640	22 S2	73 oct. Poles NE; trees NW.
Eagleton (Decatur)	1 S, riv NE	1100	26 S2	80 oct. Bldgs SE, W.
Elgin	0.6 SW, RR E	1970	16 S6	80 oct. Fort rnwy lgts. Pole line N, NW, S.
→ Fairbury	2.5 NNE; RR, hwy E	1330	20 L S6	
→ Fairmont (Geneva)	4.8 NE	1619	20h	Ltd 80 oct. Pole line N, W.
Falls City	2 SSW; riv N	919	14 S1	80 oct. Pole line N,NE,E,SE Twr SW.
[P] Fremont	1.4 WNW; RR's NE	1203	38h S4	73, 91, 100 oct. Twn SW.
[A] Grand Island AAF (A)	3.5 NE; RR W	1843	72h R3 L5 S6	
Harvard	2.5 NE	1817	76h	73 oct. Port rnwy lgts.
→ Hastings	1.5 NW, RRs N,S	1940	32 L S2	80 oct. S approach 6.1; SW 10:1
Hebron	1 S; RR W	1453	26 S4	73 oct. Pole NW, SSW, bldg N.
Hewett's (Beaver City)	2.5 NNE; hwy S	2300	40 S1	Pwr line E.
Hew's (Humboldt)	4.2 NNE; RR S	1300	13	80 oct.
Holdrege	2 NNE; creek S	2324	26 S4	80 oct. Trees N, pole line E
→ Kearney	4.5 S; riv N	2145	15 S1	CLOSED.
[A] Kearney AAF (A)	4.5 ENE; RR S	2140	73h	73,91 oct.Fld lgts prior req.
→ Lincoln	5.5 NW;RR NE	1120	71h R1 L5 S1	73 oct.
(P) Norfolk	3 SSW, RR Wriy N	1572	58h S4	91,100 oct. No sto.
(A) Offutt (Omaha)(A)	10 S; RR W	1346	61h R1 L5 S4	Fence sur fld. Data unverified.
Ohiowa	3 SW	1572	20	73, 91,100 oct. No contact lgts.
OMAHA	3.5 NE, Lake W	977	54h R3 L6 S6	80 oct. Pole line E.
100th Meridian (Cozad)	0.8 SW; RR N	2490	22 S1	Bldgs, trees NW, poles NE.
★ Overton Int., 62, SL-OH	4.8 E; RR S	2300	40 R1 L3	73 oct. Pole line S, SE.
Pender	1 NE, RR SW	1400	22 S2	
Scribner	4.1 SSE, hwy N	1315	67h	Pole line N.
Steckley (Weeping Water)	3 S, RR, rd E	1260	26	80 oct. Trees W, pole line N.
Tecumseh	1 W; RR NE	1115	26 S2	80,91 oct. All lgts prior req.
Union (Lincoln)	4.8 NNE; RR S	1140	18h L3 S6	80 oct. Pole line NW.
[P] Wayne	1.8 E; RR N	1475	33 S4	Poles SE, SSW.
Waverly (Lincoln)	9 NE; RR SE	1180	20	80 oct. Data unverified.
West Point	1.5 E; hwy W		16 S4	

SOUTH DAKOTA

Anderson (Mitchell)	2 W, RR N	1293	29 S6	80 oct. Poles sur fld.
Chamberlain	3.4 SE; hwy N	1639	26 S2	73,80 oct. Poles N, NW.
Elk Point	2 W, RR NE	1120	26 S2	80 oct. Poles N, NW.
Gregory	2.4 E, riv NE	2000	22 S2	73 oct. Pole line E, SE.
Mitchell	2.2 S; RR NE	1292	67h	
Rancher's & Farmer's(Reliance)	4 N; hwy E		30 S1	73 oct.Data unverified.
Rickenbacker (Stevens)	9 N, rd N, S	1114	28 S6	80,91 oct.
SIOUX FALLS MUNICIPAL	1 N; riv E	1420	57h R1 L5 S3	80,91 oct. Contact lgts prior req.
Vermillion	2.5 NNW; RR E	1140	25 S4	80 oct. Poles N.
Wagner	3.8 WNW; RR NE	1464	30 S1	73 oct. Poles E, NW.
Winner	1.3 S; RR N	2038	26 S4	80,91 oct.
[P] Yankton	1.3 NE; RR SW	1400	37 S2	80 oct. Twr E.
→ Platte, S.D.	1.2 NNE;RR SW	1650	28 S1	80 oct. Poles NE,SE,S.
Lexington, N.D.	1 W; RR S	2400	32 S2	Data unverified.
Dunlap Ia.	0.5 WNW;RR SE	1160	30 S3	80 oct.Pole line NNE
→ Shenandoah,Ia.	2.8 W;RR SE	960	25 L S2	80 oct. Port rnwy lgts.
→ Hawk's(Atchison,Kan.)	1.3 WNW;RR S	1000	12 S1	80 oct. Poles N.
→ Hastings Sky Ranch	3.2 WSW;RR N	1960	26 S1	73 oct. Pole line S.(Hastings,Nebr.)
→ Dell Rapids Mun.,S.D.	1.6 NE;RR SE	1450	20 S1	73 oct.
→ Fletcher (Reliance,S.D.)	2 SE;RR NE	1600	20 S1	80 oct.

30 OMAHA


FARGO 11
TO HURON
TO MINNEAPOLIS
FLETCHER
RANCHER'S AND FARMER'S
CHAMBERLAIN
MITCHELL
ANDERSON
PIPESTONE
DELL RAPIDS
WORTHINGTON
McDOWELL
OKOBOJI AWYS.
SIOUX FALLS 245
S. DAK.
MINN.
IOWA
SIOUX FALLS
JOHN E. PETERS
FULLER
McKISICK
SHELDON
SPENCER
THORNE
HART
WINNER
PLATTE
GREGORY
MINNEAPOLIS DENVER
WAGNER
LIBERTY
NEB.
YANKTON
VERMILLION
WESTERN UNION COL
CHEROKEE
GEISINGER
ELK POINT
RICKENBACKER
SIOUX CITY 396 (118.3, 126.18)
SIOUX CITY 335
DES MOINES 31
AINSWORTH
ATKINSON
KANSAS CITY DENVER
NICHOLSON
SLOAN
WAYNE
PENDER
OLIVER RANCH
DENISON
CHEYENNE 27
ELGIN
NORFOLK
EAGLETON
CALIFORNIA
DUNLAP
MANNING
WESTPOINT
MISSOURI VALLEY
BRIGGS
HARLAN
ATLANTIC MUN
ATLANTIC
SCRIBNER
FREMONT
BLAIR
CLEAR RIDGE
OMAHA 320
TO DES MOINES
BROKEN BOW
NEBR. 3 D.A.
COLUMBUS
DAVID CITY
HANCOCK
On request
KEARNEY AAF (W) 536
GRAND ISLAND 260 (116.1)
ATLANTIC 257
MEAD
COUNCIL BLUFFS
OMAHA 278 (126.18)
WESTON
BRAINARD
WAVERLY
GLENWOOD
RED OAK
NORTH PLATTE
100TH MERIDIAN
LEXINGTON
GRAND IS. AAF 278 (126.18)
LINCOLN 385
LINCOLN
UNION
OFFUTT AAF 396 (126.18)
SHENANDOAH
CLARINDA
HAYES CENTER
OVERTON
CENTRAL
ARROW
HARVARD
FAIRMONT
CRETE
IOWA
MO.
TARKIO
KEARNEY
HASTINGS SKY RANCH
KEARNEY AAF
HASTINGS
CLAY CENTER
TECUMSEH
AUBURN
On request
OVERTON 278
HOLDREGE
OHIOWA
BRUNING
BEATRICE
TARKIO 281
On request
HEWETTS
HEBRON
FAIRBURY
HEW'S
CRAIG
FALLS CITY
NEB.
KANS.
SUMMERFIELD
BERN
SENECA
HIAWATHA
NORTON
BELLEVILLE
MARSHALL AAF 215
TOPEKA (VHF) (W) 109.1
ST. JOSEPH 341
PHILLIPSBURG
SMITH CENTER
MANKATO
WOOD AIRPARK
HAWK'S
WALDO (VHF) (W) 108.7
DOWNS
MORITZ
BLOSSER
CLAY CENTER
KANS. 3 D.A.
HOLTON
LARKINBURG
TO AKRON
CONTROLLED ONLY BETWEEN 4500 AND 8500 FT. M.S.L.
SALINA (VHF) 108.3
SMOKY HILL AAF 344
MARSHALL AAF 396 (126.18)
MANHATTAN
PHILLIP BILLARD 278
POTTAWATOMIE
ELKINS
HUNTOON
LAWRENCE
TULSA 63
AMARILLO 59
WICHITA 62
SCALE OF MILES
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
(R): EXTREMELY HAZARDOUS
(U): USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.


DES MOINES 31
MINNEAPOLIS 14
ROCHESTER 278 (126.18)
ROCHESTER 236 (116.1)
DECKER
LA CROSSE 371 (116.1)
LA CROSSE
TOMAH
WISCONSIN STATE MILITARY
CAMP McCOY AAF
SPARTA-ANGELO
WIS. 2 D.A.
LONE ROCK 278 (116.1)
LONE ROCK
TO MADISON
TO ROCKFORD
MASON CITY 227
MASON CITY
TATRO FLY. SER.
RICHLAND CTR.
HENRY'S
WILKE
WESLEY
RYAN
ESTHERVILLE
ARMSTRONG
AMBOY
TRI-MONT
SHERBURN
FAIRMONT
BLUE EARTH
ALBERT LEA
LE ROY
MINN.
IOWA
SQUEEZE
CLERMONT
ELKADER
MINNEAPOLIS KANSAS CITY
POCAHONTAS
CLARION
DOWS
GOODRICH & GROSS
WIS. IOWA
RED ROCK
DUBUQUE
WIS. ILL.
SHULLSBURG
BELLEVUE
ENO
SAC CITY
LAKE CITY
WEBSTER CITY
IOWA FALLS
EMMERTS
GRUNDY CENTER
CONRAD
TRAER
CANFIELD
CHAPMAN
INDEPENDENCE
DYERSVILLE AWYS.
CARROLL
JEFFERSON
AMES
NIEDERHAUSER
SAXON
McVILLE
MOLINE 224 (116.1)
HUNTER
CEDAR RAPIDS
IOWA CITY 248
MELBOURNE COM.
MELBOURNE
AUDUBON AWYS.
ADAMSON AWYS.
GUTHRIE CENTER
DODGE
NEWTON
NIEDERHAUSER AWYS.
IOWA CITY
GRAND
CLINTON
CRAM
ADAIR
STUART
BEAVER
EARLHAM
MONROE
PELLA
ROTH
MONTEZUMA 278
On request
MONTEZUMA
WIESE
MUSCATINE
COLUMBUS JUNCTION
WASHINGTON MUN.
MOLINE 278
On request
MOLINE
DRESSLER
WINTERSET
DES MOINES 278 (126.18)
DES MOINES 212 (116.1)
LUCAS
CHARITON
NAS. OTTUMWA 272 (142.74)
OTTUMWA MUN.
BURLINGTON 326
VENTURE
MT. PLEASANT
MONMOUTH
GALESBURG
MT. AYRPORT
HUMESTON
LEON
SEYMOUR
CENTERVILLE
UNIONVILLE AWYS.
IOWA
MO.
LAMONI
EDWARDS
KIRKSVILLE 391
KIRKSVILLE
HI-WAY
MACOMB
KEOKUK
CARTHAGE
ST. DAVID
MATANZAS
BEARDSTOWN
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ST. JOSEPH 341
SAVANNAH
DAVIESS CO.
OSBORN
CHILLICOTHE 242
CHILLICOTHE
CAMERON
BAILEY'S
ROSECRANS
LURAY
QUINCY
+QUINCY (NEW)
HANNIBAL
MARCELINE MUN.
LEAVENWORTH
LINKVILLE
EXCELSIOR SPRINGS
BAILEY'S
BRADLEY
SLATER
FAYETTE
BOWLING GREEN
CHESTERFIELD
NEGUS
JACKSONVILLE
SHERMAN AAF 396 (126.18)
FAIRFAX AAF 278 (118.9, 126.18)
INDEPENDENCE
LEXINGTON
MARSHALL
FISHER
DE SOTO
ONG
HEART OF AMERICA
KANSAS CITY 359
KANSAS CITY 278 (118.3, 126.18)
MARSHALL 281
On request
NICHOLAS
COLUMBIA 379
TO ST. PETERS
GREEN
JERSEYVILLE
ST. LOUIS 209
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
TULSA 63 ST. LOUIS 66
OVER
SCALE OF MILES
25 0 25 50
• DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION

RADIO ... ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS. BEAR. & DIST.	FREQS.GUARD.HRS. OF OPER.,REMARKS
EDWARDSVILLE FM	(-)	FM, 355°,21	St. Louis, Mo.
MOLINE	324(MO)(116.1)	SBRAZ-VDT,142°,12	(4), 116.1
Moline Airport	278	ML, 88°, 2.3	3105 (on req)
IOWA			
BURLINGTON	326 (BN)	SBRAZ-DT,357°,1.8	(4)
→ DES MOINES	212 (DM)(116.1)	SBRAZ-VDT	(4), 116.1
Des Moines Arpt.	278 (126.18)	C, 344°, 2	(4),116.1,131.9,126.1
EARLHAM FM	(- - - -)	FM, 252°, 26.3	Des Moines
IOWA CITY	248 (IX)	BHT	(4)
LUCAS FM	(- - -)	FM, 164°, 27.2	Des Moines
MASON CITY	227 (NM)	MHT	(4) oper cont.
MONROE FM	(- -)	FM, 78°, 23.5	Des Moines
MONTEZUMA(Int)	278 (MZ)	MHT	(4)
OTTUMWA NAS	272 (142.74)	CN	(3), 142.74
KANSAS			
FAIRFAX (Kansas City)	278 (126.18) (118.9)	C	(4),126.18,131.9,118.9
SHERMAN (Ft. Leavenworth)	396 (126.18)	CA	(3),126.18 cont,ex-cept Sun.(23-7)
MINNESOTA			
→ ROCHESTER	236(RR)(116.1)	BMRLZ-VDT,350°,2.5	(3); 116.1
Rochester Airport	278(126.18)	C	(4);116.1,126.18,140,
MISSOURI			
CHILLICOTHE(Int)	242 (CK)	MHT	(4)
EXCELSIOR SPRGS FM	(-)	FM, 52°, 27	Kansas City
→ KANSAS CITY	359 (KC)	SBRAZ-DTX	(3).
Kansas City Arpt.	278 (126.18) (118.3)	AC (ILS),148°,3	(4), 116.1,131.9,126.1, 118.3
KIRKSVILLE	391 (KR)	BMRLZ-DT,333°,0.9	(4)
LINKVILLE FM	(- - - -)	FM, 328°, 11.4	Kansas City
MARSHALL (Int)	281 (MH)	MHT	(4)
ST. JOSEPH (Rosecrans)	341 (ZJ)	SBMRLZ-DT,359°, 3.7	(4)
WISCONSIN			
LA CROSSE(Int)	371(LE)(116.1)	SBRAZ-VDT,127°,1.8	(4), 116.1
LONE ROCK (Int.)	278(LK)(116.1)	BMLZ-VDT,98°, 0	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & WHERE (PLUS COMPASS LOCATORS)			
KANSAS CITY, MO.	109.9	333.8	172° Mag	IM ·····(.01)	MM ----(2,6)	OM ——(4,65)	OMM ---(11,0)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS ILLINOIS

ARPT.-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Beardstown	1.5 SE; RR N,W		18 S2	80 oct. Data unverified.
Carthage	1.5 SSW,RR E	665	19	Pole line NE, E.
Chesterfield Int. 4, LS-CG	3 ENE,hwy N	612	26 L3	
Galesburg	1.7 NW,RR SSW	788	27h L3 S6	80 oct.Fld lgts prior req.Trees SW, NE.
Hi-Way(Piatt)	1.3 NW,RR E	665	20 S1	80 oct.35' poleline S,E.
Jacksonville	3.9 S,hwy E	650	19 S4	80 oct.Trees SW.
Macomb	2.4 E,hwy E	695	23 S6	73,80 oct, No sto.
Matanzas(Havana)	4 S,riv W	480	24 S2	80 oct.Data not verif.
MOLINE	4 S,hwy E	590	40h R1 L3 S6	73,80,91,100 oct.
Monmouth	1.5 NNE,rd E	770	31 L1 S6	80 oct.Poleline E,W,S.
Negus(Alexander	2.8 WNW,RR SE	645	22	PRIVATE.
Quincy	2.8 SE,hwy E	650	26 S4	80 oct.
St. David	1.5 SW,hwy N	628	22 S2	80 oct.Lgt acft only.
IOWA				
→ Adair	1.5 SSE,RR NW	1350	18 S1	Ltd 73 oct.Trees S.
Adamson Airways	4.8 WSW,hwy N	1000	17 S6	80 oct. (Perry)
Ames	2.5 SSW,RR NW	920	28 S6	80 oct.Lgt acft only.
Armstrong	3.2 NW,hwy S	1250	22 S1	Ltd 80 oct.Trees E.
Audubon Arwys	1 SSE,RR W	1300	15 S1	80 oct. (Audubon)
Beaver	3.4 NW	900	25 S6	80 oct. (Des Moines)
Bellevue	3 N,RR W	652	19 S1	80 oct
(P)BURLINGTON	1.7 SSW,hwy E	698	54h R1 L5 S6	30,91,100 oct.
Canfield(Waterloo)	3.5 NW,RR NE	800	32 S6	87 oct.Pole line N
Carroll	4.2 ESE,RR N	1196	34 S2	80 oct.
(P)Cedar Rapids	6.7 SSW,RR E	860	55h L5 S1	80, 91 oct.
Centerville	3.5 SSW, RR N	1017	25 S2	80 oct.Use strips only
Chapman(Waterloo)	5 E,RR NW	870	33 S6	80 oct.Poleline S.
Charlton C.A.P.	2.3 NNE,RR SE	1050	16 S1	80 oct.
Clarion	1.1 NW	1162	27 S6	80 oct.
Clermont	0.8 S,riv W	800	21 S6	80 oct.Poleline SE,NE.
→ Clinton	6.2 WSW,RR S	700	27 L S6	80 oct.No sto.Port rnwy
Columbus Jct.	3 N,RR E	580	28 S2	80 oct.Poleline N,E lgts.
Conrad	3 WNW,RR S	1000	23 S2	80 oct.27' bldg S.
Cram (Davenport)	2.5 NW,RR SW	646	21 S6	80,91,100 oct.
Creston Arwys	1.6 NE, RR W	1320		UNUSABLE (NC)
(A)DES MOINES	4.5 SSW,RR W	950	52h R2 L5 S4	80,91 oct.
Dodge (Grimes)	3.5 E,hwy,RR E	835	27 S6	80 oct.
Dows	1.5 SSE,RR NE	1144	26 S2	80 oct
Dressler(Anita)	7 SSE,rd W	1250	17 S2	80 oct.Trees S.
Dubuque	1.9 NE,riv E	602	27 S6	80 oct.Poles SE,NW.
Dyersv'l Arwys (Dyersville)	0.8 S, RR NE	940	16 S1	80 oct.Pwr lines NW,NE
Elliot Fly.Svc.	Adj S	550	Unl. S1	80 oct. (Davenport) (NC)
Emmerts(Eldora)	2.8 NE,lake SW	1000	32 S6	80 oct. Poles NW,SE
Fno(Ft.Dodge)	2.5 E,hwy W	1126	27 S6	91 oct.
(P)Estherville	3.5 E,hwy S	1298	35 L S6	80 oct.Port rnwy lgts.
Goodrich&Gross (Strawberry Pt.)	3.5 W,RR NE	1200	19 S1	Ltd 80 oct.Poles SE,SW.
Grand	1.2 SW,RR N	770	20 S2	80 oct. (Grand Mound)
Grundy Center	1.3 ENE,RR S	990	18 S1	80 oct.Pole line S.
Guthrie Center	0.5 NW,riv E	1074	21 S1	80 oct.
Henry's(Floyd)	5 NNE,RR W	1110	14 S1	80 oct.Poles ENE.Steep sloped strips.
(P)Hunter (Cedar Rapids)	3 S, riv N	732	27 L3 S6	80,91 oct.Fld lgts prior req. Poles S, E.
(P)IOWA CITY	1.7 SW, riv E	650	43h R1 L1 S6	80, 91 oct. No sto.
Iowa Falls	4.1 S,RR E	1140	24 S2	80 oct.
Jefferson	0.8 NNW,RR S	1052	23 S6	80 oct.No sto.Poleline
Keokuk	4.6 NNW,riv E	670	27 S1	Ltd 80 oct. N.
Lake City	3.5 NNE, RR S	1200	26 S1	80 oct.
★ Lamoni Int,10, KC-MP	3 WNW, RR NE	1163	37 L3 S2	73 oct.
Leon	4.1 N, RR SE	1050	20 S2	80 oct.
McVille (Mechanicsv'l)	3.2 WNW,RR S	850	30 S6	80 oct. Poles S,W.
MASON CITY	7 W,hwy S	1215	56h R1 L5 S6	80,91,100 oct. Poles SSE.
Melbourne	1.5 SW	1000	20 S1	80 oct.Poles N.
Melbourne, com.	0.3 S,RR E	1000	21 S2	80 oct. Pole line E.
★ Montezuma Int, 17, OH-CG	3 E,hwy N	953	32 R1 L3	Poles, trees SW. Pwr line N.
Mt. Ayrport (Mt. Ayr)	6.6 N, RR N	1100	21 S1	Ltd 80 oct.Poles N,NE
Mt. Pleasant	2.6 ESE,RR N	727	19 S2	80 oct.
Muscatine	6 SW,RR SE	546	36 L3 S6	80 oct.
Newton	1.5 ENE,hwy S	950	19 S1	80 oct.
Niederhauser	2.3 N, hwy E	390	30 S6	80 oct.(Marshalltown)
Niederhauser Arwys(Grinnell)	4.5 E	1000	26 S2	80 oct.
Ottumwa	3.6 N,hwy W,S	830	32 S6	80, 91 oct.
(N)Ottumwa NAS	6.4 NNW	841	52h R1 L5 S6	73, 91 oct. (N)
Pella	3.5 SE,RR N	877	24 S6	80 oct.
Pocahontas	0.8 E	1218	25	Pole line SW
Ryan (Emmetsbg)	1.3 W,RR N	1225	18 S2	80 oct.Trees NW.
Sac City	3 SSE,riv W	1160	19 S2	80 oct.
Saxon(Ced.Rpds)	7 NE,hwy S	880	31 S6	80 oct.Trees E,SE.
Seymour	2 NNW,RR S	1060	24 S1	80 oct. Hedge S.
Squeeze(Algona)	5 S,riv S	1201	26 S2	80 oct.Pole line NW,W
★ Stuart Int,8,OH-CG	3.5 SE,rd E	1189	31 L3	Pole line NE,E.
Tatro Fly.Svc.	2.6 NW,riv W	918	26 S2	80 oct. (Decorah)
Traer	1 ENE,RR SW	895	18 S2	80 oct.Pole line E.
Venture(Ottumwa)	2.8 SSE,RR W	800	13 S6	80 oct.Poleline N,W,NE
Washington	1.5 SSE,RR NE	769	25 S6	80 oct.
Webster City	3.3 SW,riv E	1100	26 S4	80 oct. No stp.
Wesley	1.5 E,RR N	1250	31 S1	80 oct. Poleline N,S.
(A)Fairfax (Kans.Cy)	3 NE,RR E	742	65h R1 L5S4	91, 100 oct. (A)
Fisher	1 ESE,RR N	770	26 S6	80 oct.(Edwardsville)
Leavenworth Lecompton	3.6 WSW,RR E	1125	14 S4	80 oct.No sto.Trees, bldg S.
(A)Sherman(Ft. Leavenworth)	1 NNE,RR W	771	60 R1 L5 S4	73, 91, 100 oct. (A)
MINNESOTA				
(P)Albert Lea	2 N, RR E	1255	32 S6	80 oct.No sto.Poleline N.
Amboy	1 NNE, RR W	1000	24 S1	80 oct.
Blue Earth	3 S,RR E	1111	23 S1	80 oct.Poleline E.
Decker(Austin)	1.7 E,hwy N	1224	26 S4	73 oct.Obsts sur fld.
Fairmont	3.1 S,hwy W	1190	24 S1	80 oct.Poleline W.
ROCHESTER	1.7 SSE,RR W	1040	43h R2 L4 S6	80,91 oct. Poleline E,N
Sherburn	2 WNW,RRs S,E	1300	21 S2	80 oct.Pwr line ESE.
Tri-Moot	0.9 S,RR W,E	1250	22	(Triumph)
MISSOURI				
Bailey's (Lt'ng field)	2 WSW,RR N	800	20 S2	80 oct.Pwr line SE.
Bailey's (Chillicothe)	2 SSE,RR W	675	27 S6	80 oct.Poles S.
Bowling Green	1.6 NW,RR E	882	25 S2	80 oct.Poles S,pwrline
(P)Bradley(Moberly)	3 NNE,hwy W	865	37h S6	80 oct.Obsts. SE.
Cameron	2 E,RR NW	1050	21 S4	73 oct.Pwr line N.
★ Chillicothe Int, 7, KC-CG	3 E	781	25h R1 L3	Pole line S,trees SW.
Edwards	1.2 ENE,RR W	920	17 S1	Ltd 80 oct.(Grant City)
Fayette	1.5 S	660	28 S2	80 oct.Data unverified.
Fordyce(Bethany	4.8 ESE,RR WNW	1050	22 S1	80 oct.
→ Green(Mexico)	4.3 ESE,RR S	815	36 L S6	80 oct.Port rnwy lgts.
→ Hannibal	4.3 WNW,hwy N	735	28 L S6	80 oct.Poleline SW.
Heart of America (Kansas City)	4 E,RR E	759	23 S6	80 oct Port rnwy lgts. Poles,trees S.
Independence	5.8 ESE,RR S	625	23 S6	80 oct.Poles S.
KANSAS CITY	2.5 NW,riv W,S	739	52h R3 L6 S6	80,91,100 oct.Poles E,
Kirksville Arpk	Adj SE	927	26 S2	80 oct. dike W.
" 12, KC-CG	7 SE,hwy NE	970	39h R1 L3 S6	91, 80 oct.
Lexington	3 WNW,RR NW	650	33 S6	73 oct.Poleline S,W,SW
★ Luray Int,16,	1.9 ESE,hwy N	727	26 L3	KC-CG
Marceline	1.5 N,RR SE	855	20	Pole line NNE.
★ Marshall Int,7, KC-LS	1.8 S,hwy E	800	39 R1 L3 S2	80 oct.Silo NE corner
Maryville (NC)	2.2 WNW,RR N	1154	25	
Nicholas(Marshall)	3.8 S,hwy W	770	26 S4	80 oct.Pwr line S.
★ Osborn Int,4,	1.5 NW, hwy S	1046	32 L3	KC-MP
Rosecrans	4 NW,riv S	821	60h R1 L5 S2	(St. Joseph)80,91 oct. Fld
Savannah	1.3 E, RR W	1025	13 S1	Ltd 80 oct. lgts on req.
Slater	0.8 NW,hwy SE	850	26	Pole line adj N.
Uptonville Arwys	1.5 ESE,hwy NE	1100	24 S2	80 oct.Pole line N.
Vaughn(Trenton)	1.2 NNW,RR E	790	26 S1	Ltd 80 oct.
WISCONSIN				
(A)Camp McCoy(A)	2.6 E Sparta	830	38h	RR W
(P)La Crosse	5 NNW,bet rivs	653	53h L5 S4	80, 91 oct.
★ " Int,23A,	8 NNW,RR NE	667	37 R1 L3	Pole E.(CG-Twin Cys)
★ Lone Rock Int, 15,CG-Twin Cys	2 N,rd W,N	714	39 R1 L3 S2	Ltd 80 oct.Poleline NE
Red Rock (Darlington)	5 SE,RR E		12 S1	80 oct.Data not verif.
Richland Center	6 SSE,hwy W		23 S1	80 oct.Trees E,S.Data not verified.
Shullsburg	0.5 S	1000	18 S1	80 oct.Trees SW.Data not verified.
Sparta-Angelo	2.2 NE,RR E	800	25 S1	80 oct. Poles sur fld.
Tomah	1 E,RR N	970	18 S1	73 oct. 180 hill E.
(P)Wisconsin State Military	1 N, RR SW	915	31h	(Camp Douglas)
Elkader Ia.	1.1 ESE;RR S	915	17 S2	80 oct.Pole line NW;
Independence Ia.	4.1 W;RR E	990	23 S2	80 oct.Poles N.
→ Roth (Oskaloosa)Ia.	2 SSE;RR NE	850	20 S2	80 oct Trees sur fld.
Wilkie (Garner)Ia.	1.8 NW;RR S	1230	26 S2	80 oct.Poles NW,SW.
Winterset Ia.	2 W;RR E	1130	20 S4	80 oct.
Quincy,new(Ill.)	9.5 E	760	54h	Data unverified.
→ Daviess County (Gallatin,Mo.)	1.1 W,RR N	1510	16 S1	80 oct.Pole N.
→ Wiese Fly. Serv. (Lone Tree, Ia)	3.4 NNE		26 S2	80 oct. Hi-line N. Data unver

R-hard surfaced runways, R-radio facilities, L-lighting facilities, S-servicing. (See page xiii) NC (not charted). → NEW OR REVISED DATA.

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM, 152°, 6.25	Chicago
BRADFORD (Int.)	382 (MQ)	MHT	(4)
→ CHICAGO	350 (CG)(116.1)	SBRAZ-VDTX,152°,2.2	(3),116.1
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
GLENVIEW (Navy)	269 (NBU)	MLZ-DT	(3): 140.58,142.74
→ Glenview NAS	236 (142.74) (140.58)	CN, 140°, 3	(3) 140.58;3117.5 on req.
HARVEY (Rubinkam)	385 (GH)	MLWZ, 98°, 2.2	
JOLIET	257 (JO)(116.1)	SBRAZ-VDT,126°,3.6	(4); 116.1
NEWARK FM	(- - -)	FM, 246°, 49	Chicago
PEORIA	356 (PI)	SBMRAZ-DT,178°,2.3	(4)
ROCKFORD (Machesney)	338 (RD)(116.1)	SBRAZ-VDT, 45°,1.8	(4): 116.1

INDIANA

LOWELL FM	(. . - -)	FM, 152°, 40	Chicago
McCOOL (Int.)	359 (ML)(116.1)	MHVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

WISCONSIN

GENERAL MITCHELL (Milwaukee)	278	C	(4)
GENESEE FM	(- - -)	FM, 279°, 25.3	Milwaukee
KENOSHA FM	(- -)	FM, 178°, 24.7	Milwaukee
MADISON (Truax)	400 (MA)(116.1)	BMLZ-VDT 314°,2.6	(4) ;116.1
→ MILWAUKEE (Gen'l Mitchell)	242(MK)(116.1)	SBRAZ-VDT,352°,2.4	(3); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Columns Indicate VHF on which Voice is Available.

AIRPORTS — ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertus (Freeport)	3.8 SE;RR S,W	740	33 S4	73 oct. Tank S.
Beloit-S.Beloit(S.Beloit)	1 S, RR E	772	35 S6	80 oct.Use strips.Pole line W.
★ Bradford Int,29,KC-CG	4.5 NNE	795	26 R1 L3 S1	80 oct. Pole line SW, NE.
Dixon	1.9 ESE;RR S	786	26 L3 S6	73 oct.No bndry lgts.Poles S,N.
Evergreen (Warren)	1.4 SSE;hwy S	1000	26 S1	80 oct. Trees W.
Fitzgerald (Mendota)	1.5 NW;lake E	800	22 S6	80 oct.Trees E.
(N) Glenview NAS (N)	1.6 NW;RR W,E	654	63h R2 L3 S6	91,100 oct. No sto. NAFC
Grayslake	1.1 ENE;rd W	791	26	Trees W, S, E.
Interstate (De Kalb)	1.8 E;RR W	900	42h	
Kane County (Elgin)	7 WNW;hwy E	910	22 S4	80 oct.Pole line E.
Kankakee	3.2 WSW;hwy E	625	26 S4	73,80 oct.Use strips only.Ditch N.
Kiswaukee(Sycamore)	2.1 SW;rd E	830	18	(NC)
La Salle Co.(Utica)	1.8 NNW;hwy S	619	12 S2	80 oct. Poles NE.
Machesney,7,CG-Twin Cities (Rockford)	6 NNE;riv W	735	29 R1 L4 S6	73,80 oct. Pole line E.
Momence	3.5 SW;riv NW	645	23 S2	80 oct.Trees N,NW,NE.Riv N.
Morris	4.5 N;hwy W	590	21 S2	73 oct.Poles N,NNE.
Mt.Hawley (Peoria)	6.4 N;rds E,S	700	28 S6	80 oct.Pole line S, E.
Pal-Waukee(Glenview)	5.5 WNW;RR S	642	26 L3 S6	80,91 oct. Pole line N
Pecatonica	1 N;hwy E	750	24 S1	73 oct.Poles E.
PEORIA	4.8 WSW;rd E	659	44h R1 L1 S6	80,91 oct.Trees W,bldgs NE.
Phil-Larry (Roanoke)	4 W	747	23 S6	80 oct. Data not verified.
Powell Bros.(Sheldon)	2.2 S;hwy NE	650	20 S2	80 oct.
→ Sky Harbor (Northbrook)	1.6 NW,RR SE	680	26 L S6	80, 91 oct. Port rnwy lgts.
Sterling	1.4 NW;hwy E	645	25 L3 S4	80 oct.No bcn.Lgts prior req.
Stockton	2.3 SSE	940	18 S1	80 oct.Data not verified.
Streator Air Service	2 ENE,hwy S	650	26 S4	80 oct.Pole line E.
★ Van Orin Int,34,OH-CG	1 ENE;RR S	828	33 L3	Poles W.
Vogel (La Salle)	6.5 NNW;RR E	664	26 S2	80,90 oct.Soft when wet.Poles N,W.
→ Waukegan	3.5 NW;hwy E	725	22 L1 S6	80 oct. Bldg SE.
Will Co. (Steger)	0.5 S;RR W	740	15 S6	Pole line S. No sto,or fuel.
Princeton	3 N,creek N		18 S2	80 oct.Data unverified.

INDIANA

Cedar Lake	1.5 NNW;lake E	751	28 S4	73,80 oct.Data not verified.
Crown Point	1 N		30 S1	80 oct.Pole line E.Data not verified.
Jasper Co.(Rensselaer)	1.5 WNW;RR NE	676	28 L3	Pole line S; twr SW.
Lake Village	1 NW;hwy S	650	22 S2	80 oct. Data not verified.

WISCONSIN

Air City(Sturtevant)	0.6 SE;RR E	633	25 S4	80 oct. Pole line NW.
Badger (Monroe)	1.8 SW;RR N	1080	20 S1	80 oct.
Beaver Dam Inc.	2 N;lake W	914	15 S1	80 oct.
Bell-Aero Service	4 NNW;hwy W	980	21 S4	80 oct. (Baraboo)
Brown Deer(Milwaukee)	10 NNW;RR E	681	20 L S4	80 oct.No sto.Pole lines N.
Curtis-Wright	9 NW;riv SW	750	30 S6	80 oct. (Milwaukee) Rnwy info unver
Elkhorn Air Service	1.5 N;hwy E	1000	13 S1	80 oct.Rough and rolling.
Fond du Lac	2.6 ENE	769	26 S2	80 oct. 50' hi-line N.Lake WNW.
GENERAL MITCHELL (Milwaukee)	6 S;RR E	675	50h R2 LA S6	73-100 oct.
→ Hampton (Marcy)				ABANDONED
Horlick-Racine(Racine)	2 N;RRs E,W	665	25h L1 S6	80,91 oct. Trees N, SE.
Janesville	1.8 NNE;RRs NW	880	26 S4	80,91 oct. No sto. 51' twr SE.
Kenosha	2 S;RR W	623	29 L S6	80, 91 oct.Flood lgts.
(P) Kohler	1 N;hwy S	647	30 L1 S6	80 oct.Obsts sur fld.
Mael (Portage)	1.6 NW;lake SE	820	26 S6	80 oct.Obsts sur fld.
Maitland(Milwaukee)	3 ESE;hwy W	590	25 S6	80,91 oct. Stack S.
Morey (Madison)	9 WNW;hwy E	928	34 S6	80 oct.30' pole line S.
(P) Rock Co.(Janesville)	4.5 SSW;RR W	807	54h L5 S2	80, 91 oct.
Skyhaven (Milwaukee)	10.5 WNW	800	26 S1	80 oct.Pole line N,trees E, S.
(A) TRUAX(Madison)	5 NE;hwy E	858	60h R1 L5 S2	80,91 oct.Fld lgts & Svcg not avail 0030-1030.
Watertown	1.2 S;riv W	820	24 S2	80 oct. Bldg W.
Waukesha County	1.8 N;rd jct NW	904	31 S6	80 oct. Pole line S.
West Bend	2.5 E;riv S	880	20 L3 S6	80 oct. Poles sur fld.
(P) Winnebago Co.(Oshkosh)	2 SSW;RR NE	776	50h L1 S4	80 oct.No sto.Pole line NE,N,W.Rnwy unver.
Wisconsin Dells-Lake Delton(Lake Delton)	0.8 SE;riv NW	910	24 S6	80 oct.2 hills SW;trees,pole line NW,NE, and SE.
Waupun (Wisc.)	3.5 W;RR E	912	14 S1	80 oct.
Bill's (Broadhead)(Wisc.)	1.8 S;riv S,W	780	23 S1	80 oct.
Jefferson (Wisc.)	1.7 WSW;RR E	800	13	Pole line N.
Whitewater (Wisc.)	2 N;RR S	810	20 S1	80 oct.Poleline E,ENE,ESE;ridge E.
(P) Four Lakes (Madison)	3 SSE;lake N	881	30 S6	80 oct,Obst.lgts prior req. (Wisc.)
→ Chaplin Arpk(Plymouth, Wisc.)	0.5 N		20 S2	80 oct. Data unver.
Grob (Cedarburg,Wisc.)	2 N	875	24 S4	Data unverified.
Cheever (Demotte,Ind.)	3 W		29 S1	80 oct. Data unverified.
Kentland (Ind.)	6 NNE		19	Data unverified.
Rensselaer (Ind.)	10 NE		18	Data unverified.
Sky Village(Plymouth) (Wisc.)	1.8 WNW	900	18 S1	80 oct. Unverified.
→ Lake County(Waukegan,Ill.)	4.4 NNW	718	40 S6	80,91 oct.Data unverified.

b-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page,Ill)(NC)-Not charted. → NEW OR REVISED DATA

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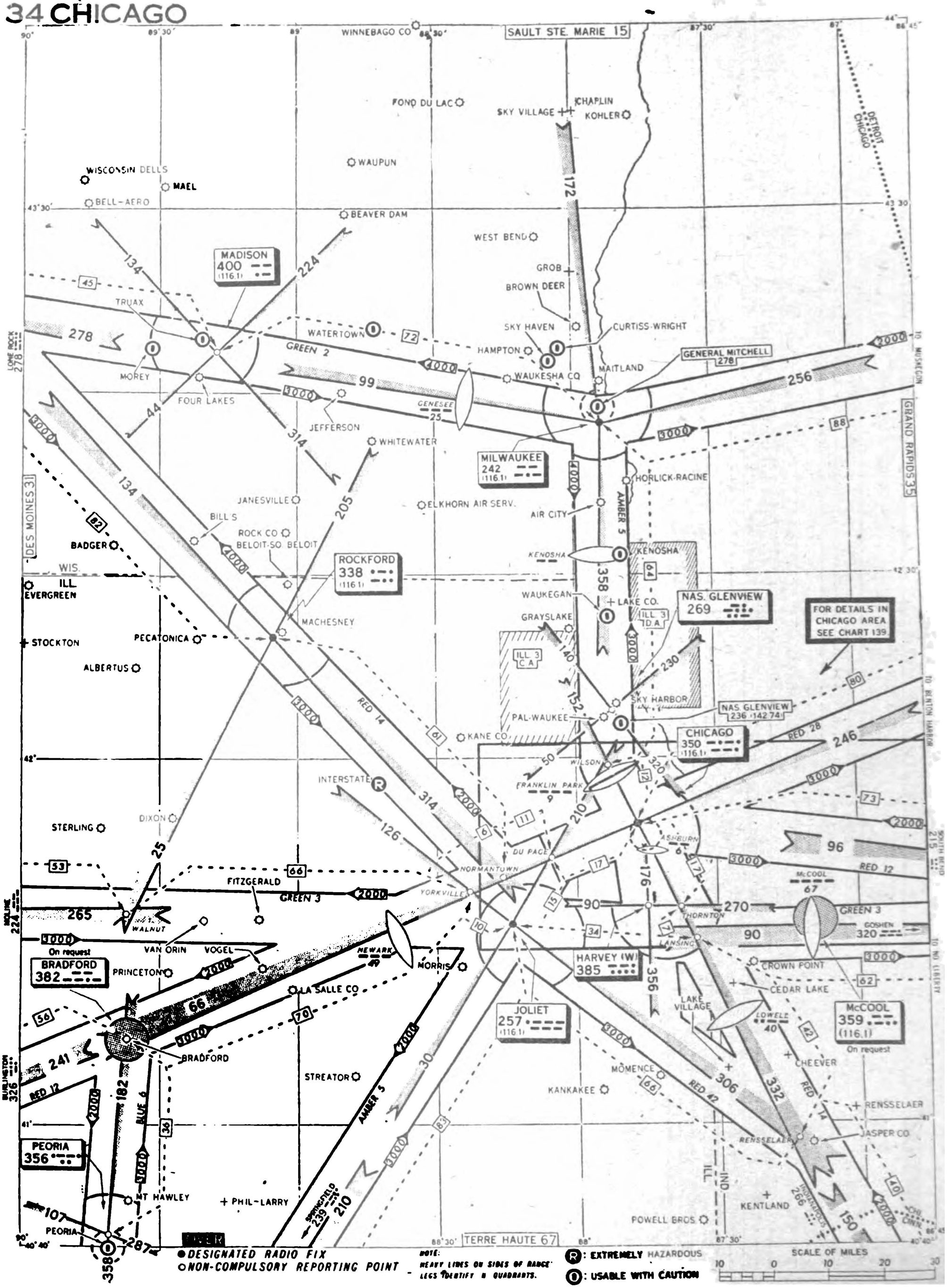
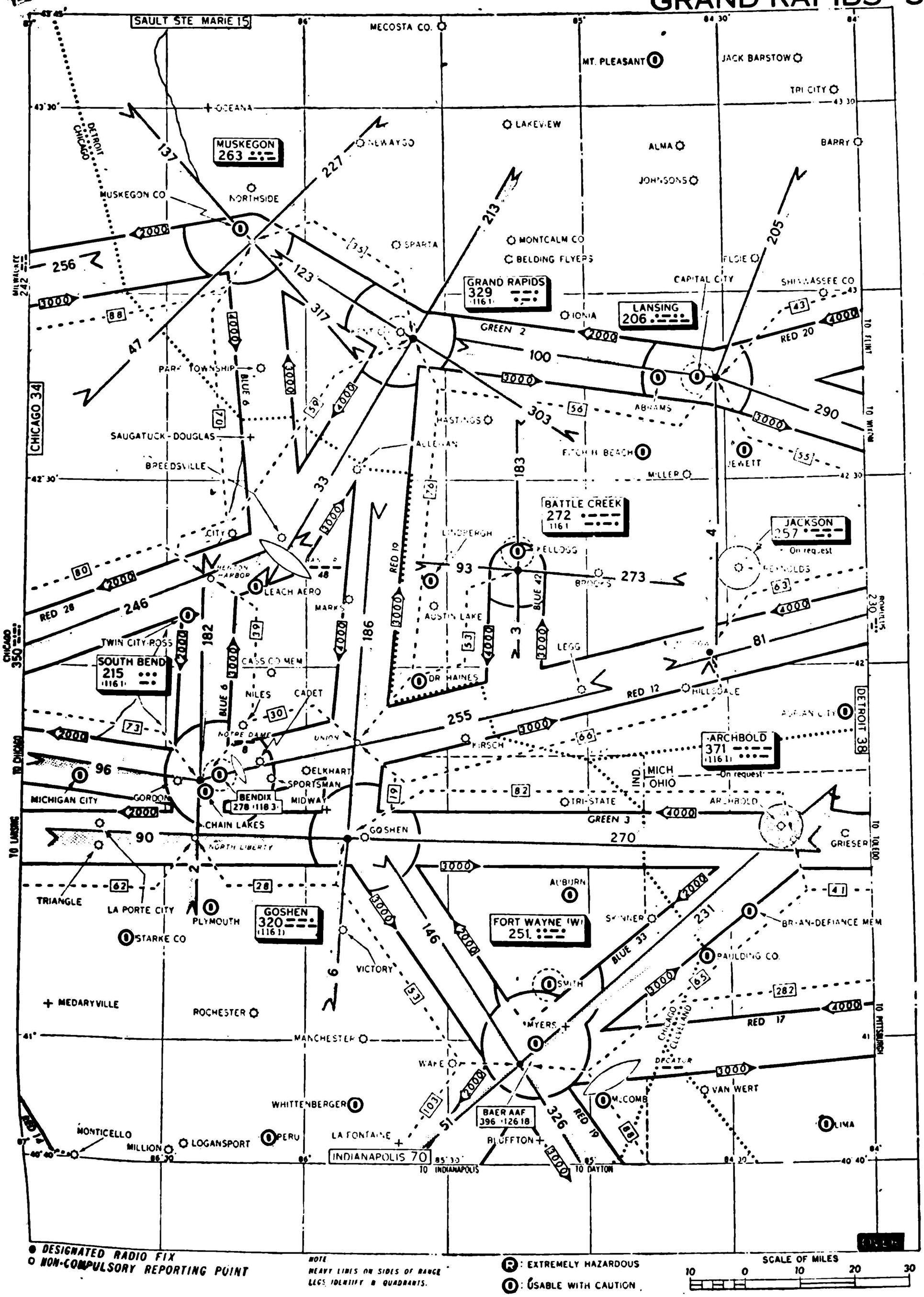

SAULT STE. MARIE 15
WINNEBAGO CO
FOND DU LAC
SKY VILLAGE
CHAPLIN
KOHLER
DETROIT CHICAGO
WAUPUN
WISCONSIN DELLS
MAEL
BELL-AERO
BEAVER DAM
WEST BEND
GROB
BROWN DEER
MADISON 400 (116.1)
TRUAX
WATERTOWN
SKY HAVEN
CURTISS-WRIGHT
HAMPTON
GENERAL MITCHELL 278
MAITLAND
WAUKESHA CO
GREEN 2
MOREY
FOUR LAKES
GENESEE
JEFFERSON
WHITEWATER
MILWAUKEE 242 (116.1)
HORLICK-RACINE
AMBER 5
AIR CITY
JANESVILLE
ELKHORN AIR SERV.
BILL'S
ROCK CO
BELOIT-SO. BELOIT
BADGER
KENOSHA
ROCKFORD 338 (116.1)
WAUKEGAN
+ LAKE CO.
NAS. GLENVIEW 269
FOR DETAILS IN CHICAGO AREA SEE CHART 139
GRAYSLAKE
ILL 3 D.A
ILL 3 C.A
EVERGREEN
STOCKTON
PECATONICA
MACHESNEY
ALBERTUS
SKY HARBOR
NAS. GLENVIEW 236 (142.74)
PAL-WAUKEE
KANE CO.
CHICAGO 350 (116.1)
WILSON
FRANKLIN PARK
INTERSTATE
DIXON
STERLING
DU PAGE
ASHBURN
NORMANTOWN
YORKVILLE
FITZGERALD
GREEN 3
WALNUT
VAN ORIN
VOGEL
NEWARK
MORRIS
HARVEY (W) 385
THORNTON
LANSING
McCOOL 67
GOSHEN 320
CROWN POINT
CEDAR LAKE
LAKE VILLAGE
LOWELL 40
McCOOL 359 (116.1)
On request
PRINCETON
BRADFORD 382
LA SALLE CO
BRADFORD
STREATOR
JOLIET 257 (116.1)
MOMENCE
KANKAKEE
CHEEVER
RENSSELAER
JASPER CO
PEORIA 356
MT HAWLEY
PHIL-LARRY
KENTLAND
POWELL BROS
TERRE HAUTE 67
TO MUSKEGON
TO GRAND RAPIDS 35
TO BENTON HARBOR
TO MICHIGAN CITY
DES MOINES 31
LONE ROCK 278
BURLINGTON 326
ROLLING 224
SOUTH BEND 215
RED 14
RED 28
RED 42
RED 12
AMBER 5
BLUE 6
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY R QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

GRAND RAPIDS 35



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY R QUADRANTS.

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

BENDIX, (South Bend)	278 (118.3)	C	(4);118.3,126.18,131.9
DECATUR FM	(- -)	FM, 148°, 24.7	Ft. Wayne
FORT WAYNE (Baer Fld)	251 (FW)	MRLWZ; 51°,3.5	
GOSHEN	320(GO)(116.1)	SBRAZ-VDT,89°,2.7	(4); 116.1
NOTRE DAME LFM	(- -)	FM, 75°, 8.2	South Bend
→ SOUTH BEND (Bendix)	215(SN)(116.1)	SBMRAZ-VDT.75°.3.3	(3);116.1
MICHIGAN			
BANGOR FM	(- - -)	FM 213°, 4°	Grand Rapids
BATTLE CREEK (Kellogg)	272(JC)(116.1)	BMLZ-VDT. 3°, 3.2	(4);116.1
GRAND RAPIDS (Kent County)	329(GR)(116.1)	BMRLZ-VDT,303°.2.2	(4);116.1
JACKSON (Reynolds)	257 (JN)	MHT	(4)
LANSING (Capital City)	206 (LJ)	SBMRAZ-DT,280°,3	(4)
MUSKEGON (Muskegon County)	263 (UK)	BMLZ-DT,317°,2.8	(4)
OHIO			
ARCHBOLD (Int)	371(YV)(116.1)	MHVT	(4); 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BAER, IND.	110.3		314° Mag.	IM (.05)	MM ····· (1.05)	OM - - (4.55)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

INDIANA

AIRPORT—CITY NAME	LOCATION	EL.	CLASS	REMARKS
Auburn	1.3 NNW;RR E	872	27 S2	73,80 oct.Trees sur fld.
(A) BAER (FORT WAYNE)(A)	7 SSW;RR E	798	63h R3	INACTIVE
(A) BENDIX (SOUTH BEND)	3.5 NW;hwy S	778	48h R2 L3 S6	80-100 oct.Poleline S,N.
Cadet (South Bend)	6.5 NE;RR E	730	33 S4	80 oct.Twr W;poleline E.
Chain Lakes (South Bend)	5.2 W;hwy N,S	765	22 S3	80 oct.
Culver (NC)	2 E;lake W	815	26	
Elkhart	2.7 NNW;RR S	752	27 S6	73,80 oct.Hedge N.
Gordon (New Carlisle)	2.8 ESE;hwy N	730	13 S1	Fuel avail.Poles E.
Goshen	4.5 SSE;riv SW	823	39 R1 L3 S6	80,91 oct.
La Porte City	2.5 SSW;RR W	801	29 L3 S6	80 oct.Pole line E.
→ Logansport	4.4 SSW;hwy E	605	27 L S1	80 oct,Port rnwy lgts.Poles E,N
McComb (Decatur)	0.9 NW;hwy E	800	20 S4	80 oct.Poles S.
Manchester (No. Manchester)	1.5 W;RR E	752	21	Poles S.
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,W,S.
Million (Logansport)	7 SW;riv 2 N	594	15	Pole S.
Monticello (Chalmers)	3 ENE,RR,hwy W	650	26 S2	80 oct.
Peru	3.5 WSW;riv E	740	38 S5	80 oct.
Plymouth	1.5 NW;RR E	898	32 S4	80,91 oct.Poles W,E.
Rochester	1.5 E;RR N	779	18 S4	73 oct.Lake S.Poles N.
Smith (Fort Wayne)	4.5 N;RR E	831	35h L4 S5	80 oct.No storage.
Sportsman (Mishawaka)	3.7 NE;riv S	760	18 S4	73 oct.No storage.Poles E,S.
Starke Co. (Knox)	1.7 S		26 S3	80 oct.Pole lines sur fld.No. storage.Data not verified.
Triangle Air Service (Wellsboro)	2 NNE;hwy S	800	22 S2	80 oct.Poles S,SE,ESE.
Tri State (Angola)	4.2 W;lake W	900	30 S4	73 oct.
Victory (Warsaw)	4 N; RR E	790	24 S2	Ltd 73 oct.Obsts sur fld.
Whittenberger (Wabash)	1.5 NNW;hwy E	770	20 S2	80 oct.
Myers (Ft. Wayne)	4 SE		24 S2	80,91 oct. Pwr lines NE.Data
La Fontaine	5 NE;hwys N,W		19 S4	80 oct.Data unverified. unver.
Bluffton	0.2 S		31	Unverified.
→ Medaryville	1.1 NW	645	24 S1	80 oct. Data unverified.
Midway (Goshen)	5 NW		36	Unverified.

MICHIGAN

Abrams (Grand Ledge)	1 NE	844	26 S1	80 oct.Pwr line S,W.Data unver.
Adrian City	3 SW; RR N	800	25 S6	80,91 oct. Obsts sur fld.
(P) Alma	1.3 NE;riv SE	790	32 S6	oct.Poles W.
Austin Lake (Kalamazoo)	8.5 SSE;lake N	860	27 S4	80,91 oct.Poles N
Barry (Saginaw)	3 WSW;riv S	599	19 S4	oct.
Belding	2.1 W;RR E	790	27 S4	73 oct.Poles S.
Breedsville Airpark	0.6 WNW;RR E	694	23 S4	73 oct.N, Sto.Pole line NE,S,SW.
Brooks (Marshall)	1.3 S,riv N	950	26 L3 S6	80 oct.Trees W,lgtd.
CAPITAL CITY (LANSING)	3.8 NW;RR S	857	42h R1 L4 S6	73,80 oct.
Cass Co. Mem. (Dowagiac)	1 NW;RR SE	760	27 S2	73,80 oct.Pole line E.
City (South Haven)	4 S;RR W	640	30 S4	73 oct.Trees W.
Elsie	0.3 SSE;RR NNE	736	19 SL	80 oct.Pole lines sur fld.
Fitch H. Beach (Charlotte)	1.8 ENE;RR NW	880	25 S6	73 oct.No storage.
Haines (Three Rivers)	2.3 NE;riv SE	820	26 S1	80 oct.Poles N,S.
Hastings	3.2 WNW;RR SW	802	34 S3	80 oct.Pole line N.
Hillsdale	1.6 NW;RR E	1160	19 S4	73,80 oct. No sto.Poles NE,E.
Ionia	3 S;hwy W	810	24 S6	73 oct.Poles NW.
Jack Barstow (Midland)	1.4 ENE;RR S	634	27 S2	73,80 oct.Poles NE.
Jewett (Mason)	1.3 SE;RR W	920	22 S2	73 oct.Poles W.
Johnsons (Ithaca)	1 ENE;RR S	750	17 S2	80 oct.Ltd storage.
→ KELLOGG (BATTLE CREEK)	3 WSW;RR bed W	936	62h R1 L5 S6	80,91 oct.Fld lgts prior req.
KENT COUNTY (GRAND RAPIDS)	3.5 S;RR NE	681	44h R1 L3 S6	73,80,91 oct.Pole line NW,SE. Radio repairs.
Kirsch (Sturgis)	1 NW;RR E	922	24 S4	80 oct.Poles S.
Lakeview	1.1 NNE;lake S	900	19 S6	80 oct. Poles N.
Leach Aero Service(Hartford)	1 NNW;RR E	830	22 S3	73,80 oct.
(P) Legg (Coldwater)	1.3 NW	982	32 S2	80 oct.Trees E.
(P) Lindbergh (Kalamazoo)	4 SSE;RR E	872	40h S6	80,91 oct.Poles S.
Marks (Lawton)	1 N;RR S	770	25 S4	73,80 oct.Poles W,ENE.
Montcalm Co. (Greenville)	2.5 S;RR E	800	22 S1	80 oct.
Mt. Pleasant	2.2 NE;RR W	755	36 S4	80 oct.
(P) MUSKEGON COUNTY	3.5 S;lake N	627	40h R1 L3 S6	73,80,91 oct.
Newaygo	0.8 SSE;RR NNW	785	20 S1	80 oct.
Niles	1.5 NE;RR NW	740	24 S2	73,80 oct.Trees N,S.
Northside (Muskegon)	5.4 NNE	590	29 S4	73 oct.No sto.Refinery SW.
Park Township (Holland)	3 WNW;bay S	612	27 L4 S6	73,80 oct.No beacon,Lgts prior req.
(P) Reynolds (Jackson)	2.5 WNW;RR S	990	40h R1 L5 S4	80,91 oct.No sto.Pole line SE,SW.
St.Joseph Co.(Centerville)	5 SE;RR,hwy N	830	15	Pole line N,trees W. (NC)
Shiawassee Co. (Owosso)	2 E;riv S	740	24 S1	80 oct.Poles sur fld.
Sparta	2.7 SE;RR W	752	25 S4	73,80 oct.Poles sur fld.
Tri-City (Saginaw)	10 NW;RR SW	660	57h	
Twin City-Ross (Benton Harbor)	1.5 NNE;RR S	640	38h S6	73,80 oct.
White Cloud (NC)	0.5 N	872	18	Twr SE;poles E,W.
Oceana (Rothbury)	1 W;lakes NE		30 S2	80 oct. Data not verified.
Mecosta Co.,5,GR-TG	1.5 NW;RR E	928	39 L3 S4	80,91 oct. (Big Rapids)
Saugatuck-Douglas(Douglas)	2 S;hwy W.		26 S1	73 oct. Data unverified.
→ Miller (Eaton Rapids)	1 ENE;RR W	908	21 S6	73 oct.No sto.

OHIO

* Archbold Int,18,CG-LG	3.5 NNW;RR N	716	28 R1 L3	
Bryan-Defiance Memorial (Defiance)	5.2 NW;riv E	705	31 S2	73,80 oct.Pole line S,E.
Grieser (Wauseon)	2.5 E;RR N	750	24 S1	80 oct.
(P) Lima	4 WNW;RR N	830	42 S6	80,91 oct.Pole line N.
Paulding County (Paulding)	2.5 NE;RR W	720	26 S2	80 oct. Poles S.Data not verif.
Skinner (Hicksville)	1.6 NNW;RR S	810	26 S1	73 oct.Obst sur fld.
Van Wert	1WSW;hwy S	785	26 S6	80,91 oct. Poles N,S,NW,NE
→ Wake (Huntington) Ind.	4 N;hwy E	750	30 S2	80 oct.Trees NE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted). → NEW OR REVISED DATA

RADIO

MICHIGAN

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BISHOP (Flint)	278	C	(4)
DETROIT CITY (Detroit)	278	C	(4)
DETROIT NAS	269(142.74)	CN	(3);142.74 (8-17)
DETROIT	201 (D)	K; 329°,2.2	Detroit City Arpt.
FLINT	335 (FN)	MHT	(3)
ROMULUS	230(DT)(116.1)	SBRAZ-VDT	(3);116.1
Romulus AAF	219 (126.18)	CA(ILS);86°,2.5	(4); 126.18
SAGINAW	212 (SI)	MHT	(4) (6-22)
SALINE FM	(- - -)	FM, 261°,20	Romulus
SELFRIDGE (Mt.Clemens)(Army)	388 (DLD)	SBMRAZ	(3); 126.18
Selfridge Field	396 (126.18)	CA(ILS);119°,2	(3) only
WIXOM FM	(- - - -)	FM, 344°,20	Romulus
YPSILANTI (Willow Run)	414 (DYP)	MH; 360°,0.5	Oper cont.
Willow Run Airport	332 (118.7)	CI	(4);118.7 (8-24)

OHIO

AKRON	362 (AX)	BMRLZ-DT	(3)
Akron Airport	272 (126.18)	C; 45°,0.4	(4);116.1,121.9,126.18
AKRON LFM	(-)	LFM, 45°,4.5	Akron
AVON LAKE LFM	(- - - -)	LFM, 325°,8.1	Cleveland
BOWLING GREEN FM	(- - -)	FM, 201°,10.3	Toledo
BRECKSVILLE FM	(-)	FM, 100°,13	Cleveland
CLEVELAND	344(CV)(116.1)	SBRAZ-VDTX,100° 0.7	(3);116.1
ELYRIA FM	(- - -)	FM,280°,10.9	Cleveland
FINDLAY	209 (JF)	MH	(4)(cont.)
HAYESVILLE (Int.)	329 (HA)	BMHT	(4)(cont.)
HOMERVILLE FM	(. . -)	FM, 31°,83	Columbus
NORTH ROYALTON LFM	(. -)	LFM,145°,10.8	Cleveland
PERRY (Int.)	332(PE)(116.1)	MHVT	(4); 116.1
PORT CLINTON	275(PY)(116.1)	MHVT	(4); 116.1
TOLEDO	239(TL)(116.1)	SBMRAZ-VDT	(3); 116.1
Toledo Airport	263	C; 10°,2.7	(4)
VERMILION FM	(. . - - -)	FM, 280°,26	Cleveland

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ROMULUS AAF, MICH.	109.9		50° Mag.	IM (.07)	MM ·····(.98)	OM - - (4.27)	
					MMK	OMK	
SELFRIDGE, MICH.	109.5	332.6	184° Mag.	IM (.23)	MM ·····(.81)	OM - - (4.31)	
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

MICHIGAN

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen's (Pontiac)	5.5 NNE; RR W	1020	26 S6	80 oct. Trees S, SW, SE.
Ann Arbor	4 S; RR E	835	28 L2 S6	80 oct. Trees NE.
Baker's (Port Huron)	3 NNW; RR NNE	585	24 S6	80 oct. Poles N, S, NE.
Berz (Birmingham)	1.5 E; RR SW	700	25 S1	73,80 oct. Pole line N.
Big Beaver	0.8 E; hwy W	650	21 S4	80 oct. Pwr line N.
(P) BISHOP (Flint)	4 SSW; RR NW	781	50h R2 L5 S5	80,91 oct.
Burns (Detroit)	8.5 WSW; RR N	625	19 S6	73 oct.
Caro	3 WSW; RR SE	699	22 S2	80 oct.Poles E.
Center (Armada)	2.3 W; RR S	666	25 S1	80 oct. Pole line NNE.
Croswell City	1 W; RR,riv E	732	25 S2	80 oct. Trees S, E. Rcv req.
(N) Detroit NAS (N)	17 SSW	594	47h R1 L5 S6	91,100 oct. ARPT OF ENTRY
DETROIT CITY (Detroit)	5.5 NE; RR S	625	53h R1 L4 S6	73,80,91 oct.Tanw W side.
Ford (Detroit)	8.8 SW; RR N	600	37h	PRIVATE.
Forrest (Fostoria)	2.4 S; riv SE	830	26 S1	80 oct.Pole line sur fld.
Hance (Wyandotte)	2.5 W; hwy W	590	33 S6	73 oct. No sto.
Hartsell Air Term.(Wayne)	3.5 NW; RR E	675	18 S6	80 oct. No sto.
Howell	0.8 N lake E	930	20 L1 S1	73 oct.
James Clements (Bay City)	3.5 S; riv S, W	599	36 S4	80 oct.
Nan-Bor (Flat Rock)	0.7 ENE;RR N	590	28 S6	80 oct. Smudge pots prior req. Data unver.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

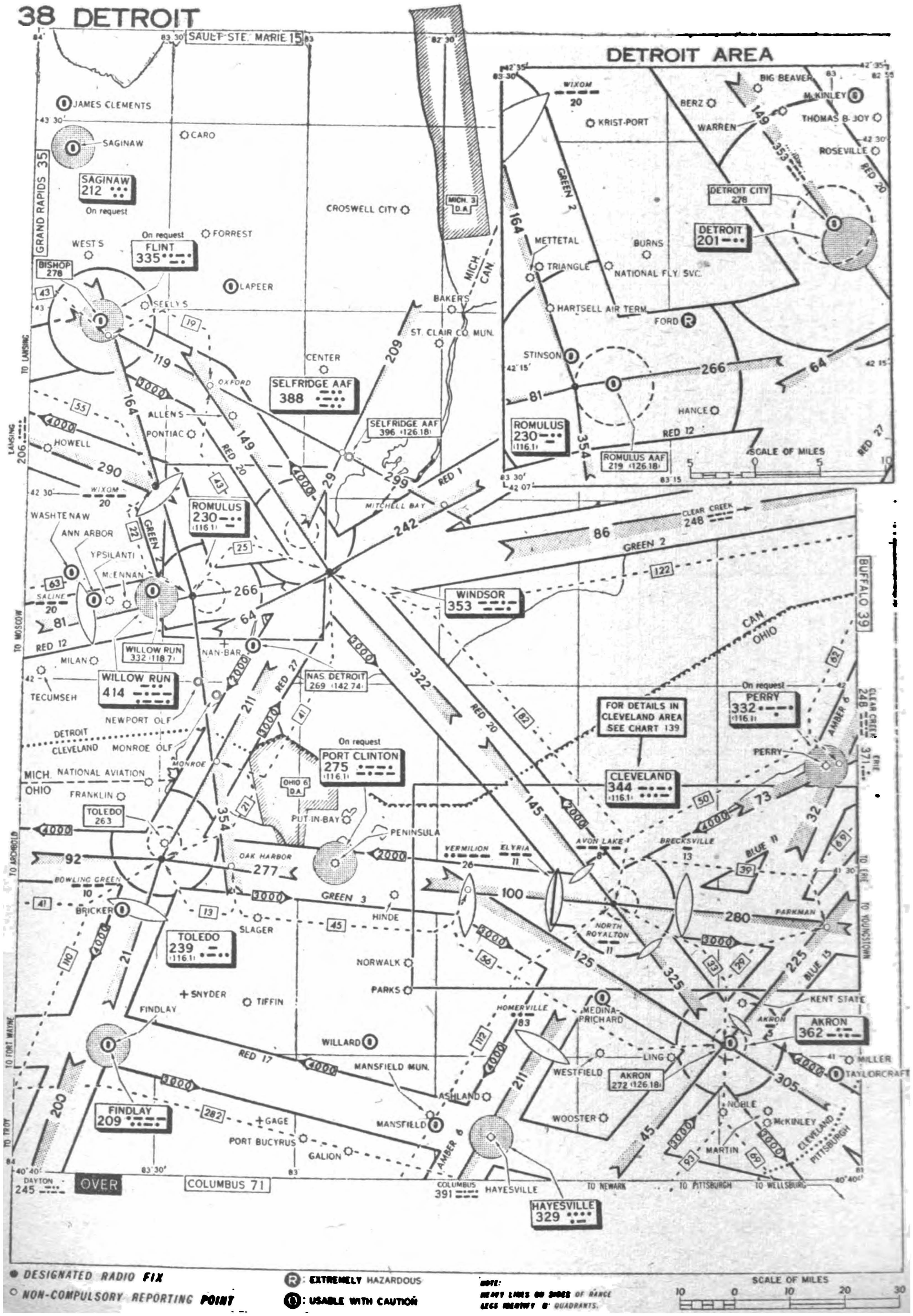
MICHIGAN

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Krist-Port (Farmington)	3.8 N; jct rds	860	27 S6	73,80 oct. Obsts sur fld.
(P) Lapeer	2.4 ENE; RR S	830	32 S6	80 oct. No sto.Poles NW.
McEnnan (Ypsilanti)	2.7 SSW; rd E, S	738	23 S4	80 oct.
McKinley (Fraser)	1.3 NW; RR E	620	27	Pole line E, NE.
Mettetal (Plymouth)	1.5 SSE; RR E	700	23 S6	73,80 oct. Poles N, W
Milan	3.8 SW; RR SE	705	23 S2	73 oct. Pole line N.
(N) Monroe OLP (Newport)	3.5 SSE; hwy SE	590	29 S4	73 oct. No sto.
Nat'l Mly. Serv.(Detroit)	11.5 WSW; RR N	635	30 S4	73 oct. No sto.Poles NE, NW.
(N) Newport OLP (N)	3 W	608	20h	
Pontiac	6.4 WNW; RR NE	970	21h L4 S6	80,91 oct. Poles S.
(A) Romulus AAF (A)	3 E; RR N	630	61h R3 L5 S6	91,100 oct.Ltd svcg.ARPT OF ENTRY
Saginaw	4.5 E; RR N	601	33 R1 L4 S4	73,80 oct.Poles S,SE,SW
St. Clair Co.(Port Huron)	5.5 SW; hwy S	660	23 L1 S5	80 oct. Poles NE,SE,SW,NW.
Seeley's (Davison)	4 WSW; RR N	780	20 S6	80 oct. No sto. Poles N.
(A) Selfridge(Mt. Clemens)(A)	3 E; lake NE	583	60h R3 L5 S6	73,100 oct. JP-1. Poles E. FOREIGN CLEARING STATION.
Stinson (Wayne)	1.4 SW, RR E	660	25h S1	80 oct. Hi-line N, NE.
Tecumseh	1.8 NNE; RR W	815	26 S6	73 oct. Pole line S.
Thomas B.Joy (Detroit)	13 NE; hwy E	616	24 S6	73,80 oct.No sto.Trees SW.
Triangle (Plymouth)	1.5 ESE; hwy S	700	26 S4	80 oct. 30' poles N.
Warren	1.6 WNW; RR E	625	23 S1	73 oct. Pole line N.
West's (Clio)	4 SW; RR E	690	21 S1	73 oct. Pole line E, NE.
Willow Run (Ypsilanti)	4 E;RR N; riv S	710	74h R2 L5 S1	90,100oct.Rdo rec req.
Wings (Utica)	2.5 SW; RR E	630	26 S6	73,80 oct.Poles N;stumps NW
Ypsilanti	4.4 WSW; RR NW	840	24 S5	80 oct Pole E;woods N,No sto.
Roseville	0.5 S;hwy W	610	29 S6	73,80 oct.Poles S,SW.

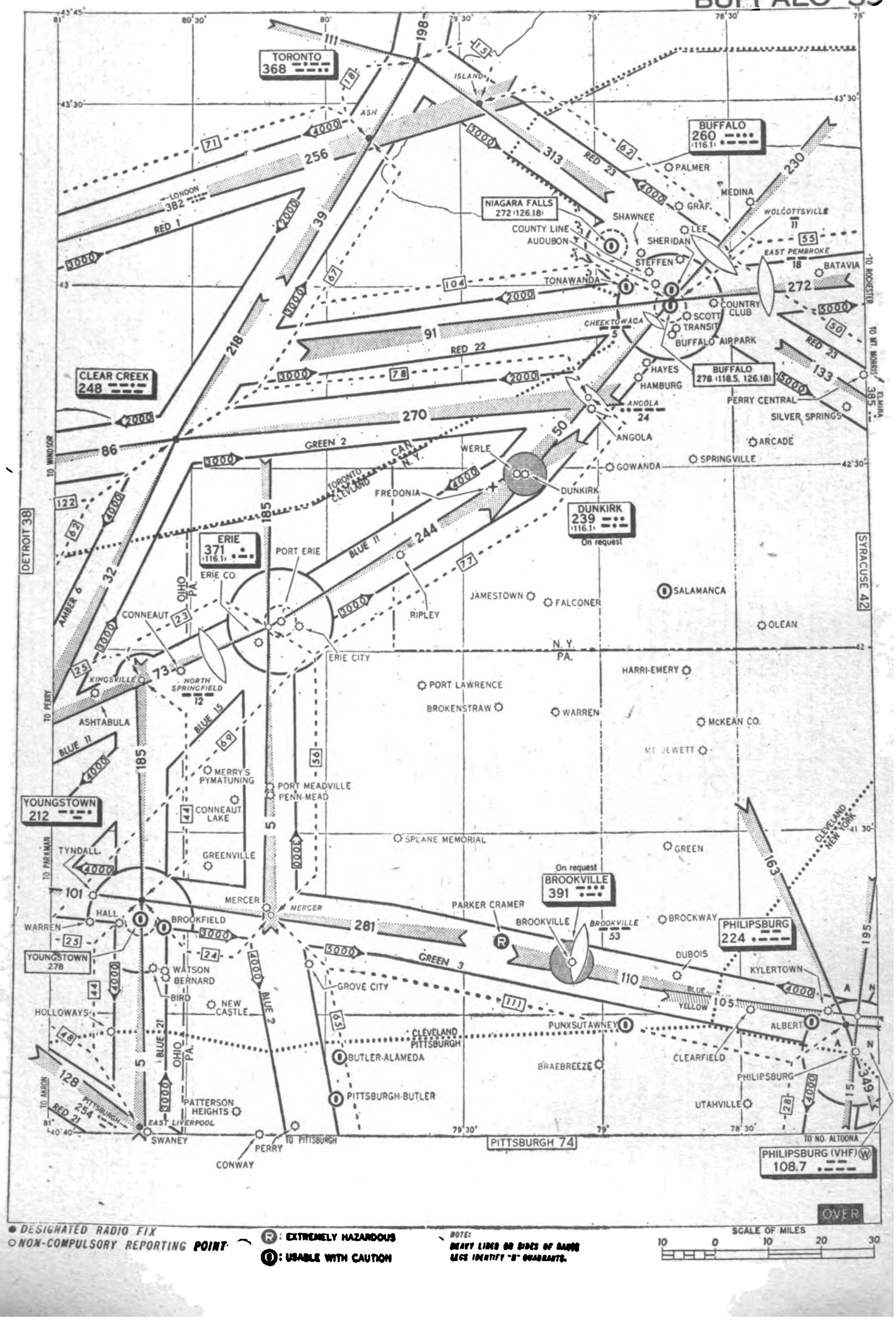
OHIO

(P) AKRON	3.4 SE; RR W	1043	44h R2 L5 S4	80,100 oct. No sto.ARPT OF ENTRY.
Ashland	1.8 N	1079	23 S2	73,80 oct. Pole line W.
Bricker (Bowling Green)	1 NE; RR W	675	30 S4	80 oct.
Coons (Nevada)	0.3 NE; RR S		21 S2	80 oct. Data not verified.
Fenwick (Kellys Island)	1.3 NE	600	18	(NC)
Findlay	1.5 SSW; hwy NW	800	27 R1 L5 S4	80 oct.
Franklin (Toledo)	4.5 WNW; RR S	630	32 S4	80 oct. Pole line all sides.
Gage (Mansfield)	4.5 W; RR SE	1360	13 S2	73 oct.
Galion	1.5 WNW; RR SE	1155	18 S2	80 oct.
* Hayesville Int,27,LV-CV	2.5 WNW; hwy S	1300	30 R1 L3	
Hinde (Sandusky)	2.8 E; RR S	574	30 S6	73oct.Poleline S.ARPT OF ENTRY.
Kent State	2.8 W; RR S	1120	36 S4	80 oct.No sto.Pole line N.
Ling (Barberton)	3 WSW; RR N	1150	30 S6	80 oct; Obsts sur fld.
McKinley (Canton)	2.3 NE; hwy SE	1100	32 S4	80 oct. Poles N,S,E.
Mansfield	3.8 N; RR E	1300	26h L S6	73,80 oct. Pole line SW,W.
Martin (Canton)	4 NNE; hwy SE	1080	30 L S6	80 oct. Pole line sur fld.
Medina Prichard (Medina)	3 WNW; RR NW, SE	1060	29 S6	80 oct.No sto.Poles S.Rnwys unver.
Miller (North Benton)	1.5 W; RR SE	1070	28 S4	73 oct. Poles S.
National Aviation(Toledo)	4.1 NNE; RR E	595	38 S6	91 oct. Pole line S,W,NNE.
Noble (Massillon)	4.5 NNE; hwy W	1080	22 S6	80 oct.No sto. Pole SSW.
Norwalk	0.8 NE; RR W	700	18 S2	73 oct. Pole line W.
" Airpark (NC)	2 NNE; RR W	690	29 S2	73,80,91 oct. Poles W, SW.
Parks Airpark (Norwalk)	4.5 S; hwy E, W	880	29 S1	80 oct. Poles E.
Peninsula (Port Clinton)	3.5 E; RR S	587	36 R1 L3	
* Perry Int,4B,CV-A7	2.3 NE; RR S	692	26 R1 L3	Poles E.
Port Bucyrus (Bucyrus)	2 S; RR NW, E	1000	26 S6	80 oct. Poles E. ARPT OF
Put-In-Bay	1.2 SSW	590	16	Poleline NW.PRIVATE. ENTRY.
Slager (Fremont)	2 NW;RR SW	630	19 S6	73,80 oct.No sto.Poleline
Snyder (Fostoria)	1 E; reservoir SSW		32 S1	80 oct.Data unver. N.E.SE.
Taylorcraft (Alliance)	2.5 NNE; RR SE	1170	22h S5	80 oct.No sto.Poles sur fld.
Tiffin	1.9 N;RR W	750	26 S4	80 oct,Poles E.
TOLEDO	8.2 SSE;RR W	621	42h R2 L5 S4	73,83,91 oct.
Wellington	Ad1 NW; RR W	850	20 S2	80 oct,Stacks NE.Data unver.
Westfield (LeRoy)	1.2 SSE;RR E, S	1030	16 16 S4	80 oct.No sto.
Willard	1.6 SSW;RR NE	960	22 S2	80 oct.Poles W.
(P) Wooster	3 NNE;hwy SE	1150	32 S6	80 oct.Poles S, SE.
Mansfield,mun	5 N	1300	50h S1	73,80,91 oct.
Washtenaw (Ann Harbor)(NC)	5 W		26 S2	80 oct. Hi-line S.Data unver

38 DETROIT


DETROIT AREA
SAULT STE. MARIE 15
JAMES CLEMENTS
SAGINAW
CARO
SAGINAW 212
On request
GRAND RAPIDS 35
CROSWELL CITY
MICH. 3 D.A.
WEST'S
On request
FLINT 335
FORREST
BISHOP 278
LAPEER
SEELY'S
BAKER'S
MICH. CAN.
ST. CLAIR CO. MUN.
CENTER
SELFRIDGE AAF 388
SELFRIDGE AAF 396 (126.18)
ALLEN'S
PONTIAC
OXFORD
HOWELL
WIXOM 20
ROMULUS 230 (116.1)
MITCHELL BAY
WASHTENAW
ANN ARBOR
YPSILANTI
McENNAN
GREEN 2
SALINE 20
MILAN
WILLOW RUN 332 (118.7)
WILLOW RUN 414
NAN-BAR
TECUMSEH
NEWPORT OLF
NAS. DETROIT 269 (142.74)
DETROIT
CLEVELAND
MONROE OLF
MONROE
On request
PORT CLINTON 275 (116.1)
MICH. NATIONAL AVIATION
OHIO
FRANKLIN
OHIO 6 D.A.
PUT-IN-BAY
PENINSULA
TOLEDO 263
OAK HARBOR
BOWLING GREEN
BRICKER
GREEN 3
HINDE
SLAGER
TOLEDO 239 (116.1)
NORWALK
PARKS
SNYDER
TIFFIN
FINDLAY
WILLARD
MANSFIELD MUN.
ASHLAND
MANSFIELD
FINDLAY 209
GAGE
PORT BUCYRUS
GALION
DAYTON 245
OVER
COLUMBUS 71
COLUMBUS 391
HAYESVILLE
HAYESVILLE 329
TO NEWARK
TO PITTSBURGH
TO WELLSBURG
WIXOM 20
BIG BEAVER
BERZ
KRIST-PORT
WARREN
M. KINLEY
THOMAS B. JOY
ROSEVILLE
DETROIT CITY 278
DETROIT 201
METTETAL
BURNS
TRIANGLE
NATIONAL FLY. SVC.
HARTSELL AIR TERM
FORD
STINSON
HANCE
ROMULUS 230 (116.1)
ROMULUS AAF 219 (126.18)
SCALE OF MILES
CLEAR CREEK 248
WINDSOR 353
FOR DETAILS IN CLEVELAND AREA SEE CHART 139
CLEVELAND 344 (116.1)
On request
PERRY 332 (116.1)
PERRY
AMBER 6
CAN
OHIO
BUFFALO 39
ERIE 371
VERMILION
ELYRIA
AVON LAKE
BRECKSVILLE
BLUE 11
NORTH ROYALTON
PARKMAN
HOMERVILLE
MEDINA-PRICHARD
AKRON 3
AKRON 362
KENT STATE
MILLER
TAYLORCRAFT
LING
WESTFIELD
AKRON 272 (126.18)
WOOSTER
NOBLE
McKINLEY
MARTIN
CLEVELAND
PITTSBURGH
TO ERIE
TO YOUNGSTOWN
TO LANSING
TO MOSCOW
TO ARCHBOLD
TO FORT WAYNE
TO TROY
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS INDICATE 8° QUADRANTS.
SCALE OF MILES

BUFFALO 39


TORONTO 368
BUFFALO 260 (116.1)
NIAGARA FALLS 272 (126.18)
CLEAR CREEK 248
BUFFALO 278 (118.5, 126.18)
ERIE 371 (116.1)
DUNKIRK 239 (116.1) On request
YOUNGSTOWN 212
YOUNGSTOWN 278
On request BROOKVILLE 391
PHILIPSBURG 224
PHILIPSBURG (VHF) W 108.7
LONDON 382
PALMER
MEDINA
GRAF.
SHAWNEE
COUNTY LINE
AUDUBON
SHERIDAN
LEE
STEFFEN
WOLCOTTSVILLE
EAST PEMBROKE
BATAVIA
TONAWANDA
COUNTRY CLUB
SCOTT
TRANSIT
CHEEKTOWAGA
BUFFALO AIRPARK
HAYES
HAMBURG
PERRY CENTRAL
SILVER SPRINGS
ANGOLA
ARCADE
GOWANDA
SPRINGVILLE
WERLE
DUNKIRK
FREDONIA
TORONTO CLEVELAND
CAN. N.Y.
ISLAND
ASH
RED 23
RED 22
RED 1
BLUE 11
BLUE 15
BLUE 21
AMBER 6
GREEN 2
GREEN 3
TO WINDSOR
TO PERRY
TO PARKMAN
TO AKRON
TO ROCHESTER
TO MT. MORRIS
ELMIRA
DETROIT 38
SYRACUSE 42
CLEVELAND NEW YORK
ERIE CO.
PORT ERIE
OHIO PA.
CONNEAUT
KINGSVILLE
NORTH SPRINGFIELD
ASHTABULA
ERIE CITY
N. Y. PA.
RIPLEY
JAMESTOWN
FALCONER
SALAMANCA
OLEAN
HARRI-EMERY
PORT LAWRENCE
BROKENSTRAW
WARREN
McKEAN CO.
MT. JEWETT
MERRY'S PYMATUNING
CONNEAUT LAKE
PORT MEADVILLE
PENN-MEAD
GREENVILLE
SPLANE MEMORIAL
GREEN
TYNDALL
MERCER
HALL
BROOKFIELD
WATSON
BERNARD
BIRD
NEW CASTLE
HOLLOWAYS
GROVE CITY
PARKER CRAMER
BROOKVILLE
BROCKWAY
DUBOIS
KYLERTOWN
PUNXSUTAWNEY
ALBERT
CLEARFIELD
BUTLER-ALAMEDA
PITTSBURGH-BUTLER
BRAEBREEZE
UTAHVILLE
PATTERSON HEIGHTS
EAST LIVERPOOL
SWANEY
CONWAY
PERRY
TO PITTSBURGH
PITTSBURGH 74
TO NO. ALTOONA
111
198
15
18
71
4000
256
39
2000
67
3000
104
62
313
230
55
272
50
91
218
78
270
86
122
185
32
23
25
73
69
36
5
44
101
281
24
53
110
105
111
65
48
128
254
21
163
195
349
28
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO — NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANGOLA FM	(. . - - -)	FM, 230°, 24	Buffalo
→ BUFFALO	260(BJ)(116.1)	SBRAZ-VDT	(3); 116.1
Buffalo Airport	278 (126.18) (118.5)	AC;230°,0.9	(4);118.5,126.1[illegible],131.9
CHEEKTOWAGA LFM	(- - -)	LFM,230°,4.7	Buffalo
DUNKIRK	239(DK)(116.1)	MHVT	(4); 116.1
EAST PEMBROKE FM	(- -)	FM, 92°, 17.5	Buffalo
NIAGARA FALLS AIRPORT	272 (126.18)	CI	(4);126.18 (7-23)
WOLCOTTSVILLE FM	(-)	FM, 50°, 11	Buffalo
OHIO			
YOUNGSTOWN	212 (CT)	BMRLZ-DT	(4)
Youngstown Airport	278	CI; 185°,3.5	(4); (730-2330)
PENNSYLVANIA			
BROOKVILLE FM	(- - -)	FM, 290°, 53	Philipsburg
BROOKVILLE (Int.)	391 (BR)	MH	(4)
ERIE (Port Erie)	371(ER)(116.1)	SBMRAZ-VDT,64°,2	(4); 116.1
NORTH SPRINGFIELD FM	(- - -)	FM, 253°, 12	Erie
PHILIPSBURG	224 (MJ)	SBRAZ-DT,169°,5	(4)
PHILIPSBURG	108.7 (MJ)	VARW	
CANADA			
CLEAR CREEK, ONT.	248 (QO)	BRAZ-DT	(4),3232.5(N),5632.5 (D)
TORONTO, ONT.	368 (YZ)	SBRAZ-DTX	3105,6210,3117.5

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Angola	1.4 N;RR SE	610	15 S1	80 oct.
Arcade	2 N;RR E,W	1740	22 S4	Ltd 80 oct.No storage.
Audubon (Getzville)	1.7 SSW;RR N,SW	580	19 S6	80 oct.
(P) Batavia	2.4 NNE;rd W	910	30 S6	80 oct.Pole line W.Trees E.
Buffalo Arpk (Gardenville)	1.5 ENE;rd S	680	27 S6	80 oct.
(N) BUFFALO	6.1 ENE;RR NE	712	56h R2 L6 S6	80-100 oct.ARPT. OF ENTRY.
Country Club (Clarence)	2.3 SSE;RR S	800	36 L S6	80 oct.Trees SW.
County Line (No.Tonawanda)	3.4 E;RR SW	577	21 S4	80 oct.
(P) Dunkirk	3 E;RR N,S	692	40h R1 L5 S2	80 oct.
Erie Co.Aero Park (Hamburg)	3.5 WSW;RR E,W	750	18	Pole line S.UNUSABLE.(NC)
Falconer	1.3 NNE;RR S	1250	22 S4	80 oct.Obsts sur fld.
Fredonia	3.5 W;RR SE		27 S2	80 oct.Pole line N,NE,E.
Gowanda	1.4 NNW;crk W	760	22 S6	80 oct.No storage.
Graf (Lockport)	2.8 N;RR S	380	15 S6	80 oct.
Hamburg Airpark Inc.	2 NNW;RR,hwy W	722	23 S2	80 oct.Pole line NE.
Hayes (Blasdell)	0.7 SSE;RR E,W	723	20 S4	80 oct.No storage.
Jamestown	4.1 W;hwy E	1719	27h S6	80 oct.Trees S.
Lee (Lockport)	1.8 SSE;hwy N	640	18h S2	80 oct.Pole line N.
Medina	2 W;RR S	500	21 S1	80 oct.Obsts sur fld.
(P) Niagara Falls	4 E;RR N	587	55h R1 L5 S4	80-100 oct.JP-1.No sto.ARPT OF ENTRY
Olean	1.8 SE;RR N	1440	22 S6	80 oct.Trees W,N;hill S.
Palmer (Olcott)	1.2 SSW;RR S	315	17 S2	73 oct.Pole line E.
Perry Central	1.7 NNW;lk SSW	1400	23 S1	80 oct.Pole line,trees N,E.
Perry Fly.Service (Perry)	3.3 W;RR W	1640	21	Pole lines NNE. (NC)
Ripley	1.4 WNW;lake N	650	22 S4	80 oct.No storage.
Salamanca	1.6 W;RR N,S	1370	12 S6	80 oct.
Scott (Lancaster)	1.5 E;RR N,S	680	22 S1	80 oct.Pole line SW.Rnwy data unverifie
Shawnee Flying Service (North Tonawanda)	4.5 NNE;riv SE	580	33 S6	80 oct.Pole line E,W.
Sheridan (Williamsville)	2.5 NE;hwy SE	640	38 S6	80 oct.No storage.
Silver Creek (NC)	1 WSW;hwy SE	720	11	Trees E, NW.
Silver Springs	0.5 E;lake NE	1420	15 S1	80 oct.
	7.3 NW	570	103 S6	80 oct. Ramp; all facs.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

→ NEW OR REVISED DATA

NEW YORK

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Springville	1.5 NE;RR W	1395	26 S4	80 oct.Pole line N,E.Rnwy info unver.
Steffen (East Amherst)	3.5 N	582	22 S6	80 oct.Obsts sur fld.
Tonawanda	3 SSW;RR E	610	30h S4	80 oct.Rough.Obsts sur fld.
Transit (Depew)	2 SSW;RR N	670	13 S2	80 oct.Trees,bldg E.
Werle (Dunkirk)	1.8 ENE;RR N,S	640	22 S1	80 oct.Poles,trees sur fld.
Westfield (NC)	1.5 WSW;hwy N	758	18 L1	S blocked.
OHIO				
Ashtabula	3.1 W;lake N	621	17 S2	80 oct.
Barnard (Youngstown)	3.4 E;lake NE	1140	28 S6	73,80 oct.Pole line N,S,W.
Bird (Youngstown)	2.6 NE; RR W	1000	22 S4	80,91 oct.Pole line W,N.
Brookfield	0.8 W;RR W	1130	20	Poles N,E.
Conneaut	2 ESE;hwy S	670	18 S1	80 oct.
Hall (Warren)	3.5 ENE;RR NW	900	26 S2	73,80 oct.Poles E.
Holloways (Greenford)	1 ENE;RR W	1250	15 S1	80 oct.Wires E.
Sky Harbor (Williamsfield)	1 S;hwy E	1140	26	Poles E. (NC).
Swaney (East Liverpool)	4.9 NW;crk SE	1170	22 S2	80 oct.
Tyndall (Warren)	6 NNW;RR E	940	30 L1 S4	80 oct.No storage.
Warren Airways	2.3 WNW;RR S,E	900	22 S2	73 oct.Trees S.
Watson (Youngstown)	3.8 E;lake S	1080	17 S2	Ltd 73,80 oct.
YOUNGSTOWN	11 N;hwy E	1178	39h R2 L5 S6	73,80,91 oct.
PENNSYLVANIA				
Albert (Philipsburg)	2.3 ENE;rd N	1630	31 S2	80 oct.Pole line S,E.
Braebreeze (Marchand)	0.3 N;RR NW	1650	18 S2	80 oct. Trees N,NE.
Brockway	1.3 NE	1700	18	
Brokenstraw (Youngsville)	2.6 W;RR S	1230	17 S4	73 oct.
★ Brookville Int,45A,CG-LG	2 WSW;RR E	1416	30 R1 L3 S1	80 oct.
Butler-Alameda (Butler)	3.4 WNW	1340	24 S6	80 oct.Pole line E.
Clearfield	1.5 WSW;RR SE	1220	20 S1	80 oct.Pole line NE.
Conneaut Lake	1.7 WSW;hwy SE	1250	18 S2	80,91 oct.Pole line SE end.
Conway	0.7 N	950	24 S4	80 oct.Hill N,Rnwy data unverif
Dubois	1.7 ESE;RR NE	1575	30 S6	80 oct.
→ Erie City (Kearsarge)	0.5 W;hwy E	900	29 L S6	80 oct.Port rnwy lgts.Poleline
Erie County (Erie)	11.6 SW;hwy N	805	24 S6	80 oct.Poles N,E,S.
Green (Ridgeway)	3 NW;hwy,RR E	1720	21 S2	No fuel.Trees NNW.
Greenville	2.3 W;RR E	1180	17 S2	80 oct.Pole line S.
Grove City	2.1 SSE;RR E	1275	19 S4	80 oct.
Harri-Emery (Bradford)	2.3 WSW;RR E	1490	20 S4	80 oct.
Kylertown	1 WNW	1660	40 S4	80 oct.Trees S,WNW.
McKean County (Bradford)	11 S;RR SW	2140	45h	
Mercer	4.8 NNE;RR W	1300	20 L1 S6	80 oct.
Merry's Pymatuning (Linesville)	1.5 NW;RR E	1200	21 S2	73 oct.Pole line NNE.
Mount Jewett	0.8 ESE;hwy N	2240	19 S4	80 oct.
New Castle	4 WNW;hwy SE	1080	29h S5	80 oct.
Parker Cramer (Clarion)	1ENE;riv N	1480	18 S1	80 oct.
Patterson (Beaver Falls)	1.5 S;RR,riv E	1020	26 S4	80 oct.
Penn-Mead (Meadville)	3 SSW;hwy E	1365	20 S2	73 oct.
Perry (Mars)	5 E;hwy E	1060	16 S6	80 oct.No sto.Pole line E.
Philipsburg,Site 51A,CG-LG	7 E;hwy N	1940	30h R1 L3 S1	80 oct.
Pittsburgh-Butler (Butler)	6.7 SSW;hwy E	1235	49 L1 S6	80 oct.
PORT ERIE (Erie)	6 WSW;RR SE	735	46h R1 L5 S6	80,91 oct.
Port Lawrence (Corry)	1.2 S;RR N	1745	23 S2	73 oct.Pwr line NW.
Port Meadville (Meadville)	3.4 W;hwy S	1400	32h L4 S6	80 oct.
Punxsutawney	3 NE;hwy S	1470	22 S2	Ltd 80 oct.Pole line ESE,S.
→ Splane Memorial (Oil City)	4.1 NNW;hwy E	1490	22h L S4	80,91 oct.Port. rnwy lgts.
Utahville	1N;RR S	1800	22 S2	Ltd 73 oct.
→ Warren	2 WSW;RR N	1100	23h L S4	80 oct.Port rnwy lgts.

SYRACUSE

RADIO

NEW YORK

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS.GUARDED,HRS. OF OPER., REMARKS
DANSVILLE	212(DA)(116.1)	MHVT	(4); 116.1
ELMIRA (Chemung Co.)	385(EA)(116.1)	SBRAZ-VDT,75°,1.8	(4); 116.1
ROCHESTER	206(RC)(116.1)	BMRLZ-VDT	(4);116.1
Rochester Airport	278	CI;298°,2.2	3105,4495 (8-24)
ROME AAF	396 (126.18)	CA	(4); 126.18 (8-22)
► SYRACUSE	350(SR)(116.1)	SBRAZ-VDT	(3);116.1
Syracuse Municipal	278	C ; 178°, 2.2	(4)
TRI-CITIES (Endicott)	278	CI	3105(days)
UTICA	359(UA)(116.1)	BMRLZ-VDT,151°,3.0	(4);116.1

PENNSYLVANIA

ALLENTOWN (Allentown-Bethlehem)	320(XA)(116.1)	SBMRAZ-VDT,192°,2.7	(4); 116.1
LAKE CAREYFM	(- - - -)	FM, 259°,20.8	Wilkes-Barre
SLATINGTON FM	(- - - -)	FM, 290°, 12	Allentown
SUNBURY	353(SV)(116.1)	MHVT	(4);116.1
SUNBURY	108.3 (SV)	VARW	
WILKES-BARRE (Wilkes-Barre-Wyoming Valley Airport)	272(WI)(116.1)	SBMRAZ-VDT,243°,2.6	(4);116.1
WILLIAMSPORT	233 (IA)	BMRLZ-VT,281°,7.5	(4)

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NEW JERSEY

AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lake Susquehanna(Blairstown	2.3 WSW;RR S	380	28 S6	80 oct.
Martins Creek, Belvidere	3 SSW;riv SE	340	25 S6	80,91 oct.Pole line N.

NEW YORK

Auburn	3.7 NNW;lake E	525	24 S4	80 oct. Poles,trees sur fld.
Binghamton	7.2 NNE;RR NW	940	18 S2	80 oct.Trees N.
Bonnie Brae (Owasco) (NC)	1.7 SW;RR W	960	17	Cattle on fld.
Brizee (Pittsford)	2 E;RR N	422	25 S4	80 oct.Pole line S,NW.
Canastota	1.3 WSW;RR N	540	22 L1 S1	80 oct.
Carthage	1 E;RR NW	740	20 S1	80 oct.
Cayuga (Ithaca)	3.8 WNW;hwy E	1280	23 S1	80 oct.Pole line E.
CHEMUNG CO. (ELMIRA)	6.5 NW;RR S	951	40h R1 L5 S4	80,91,100 oct.
Cicero	0.5 NW;lake SW	416	21 S4	80 oct.
Colgate Univ. (Hamilton)	5.4 N;RR W	1178	25 S6	80 oct.
Commercial (Rochester)	7.3 WSW;RR S	570	18 S4	80 oct.Pole line W.
Community (Whitesville)	1.3 E;riv 1 N	2180	30	20-40' trees E,W,S.
Cortland	1.8 WSW	1144	30 S6	80 oct.Wooded ridge E.
Costa's (Painted Post)	2.7N NW;RR	960	16 S1	80 oct.Trees W,NW.
Crowner (Wellsville)	1 W;RR E	1506	22 S2	80 oct.Obsts sur fld.
(P) Dansville	1 NW;RR NE	662	40h R1 L3 S6	80 oct.Pole line N.
Eagle Airpark (Horseheads)	1.8 SSW;RR E	900	22 S1	80 oct.Trees S,W.
Fulton	2.6 NNE;rd W	469	40h L2 S4	80 oct.No sto.Lgts prior req.
Fulton Airpark	0.5 W;riv E	360	18 S6	80 oct.12' brush WNW.
Hancock (NC)	1.5 SSE;RR E	905	17	Hills SSE,NNW.
Hilton	2.6 WSW;RR N	325	16 S1	80 oct.3' fence E,S,SE.
Honeoye Falls Flying Svc.	0.8 SW;RR E	700	20 S4	60 oct.Pole lines NE,NNW.
Hornell	3.5 NNW;RR SW	1170	24 S6	80 oct,Wooded hills sur fld.
Hylan (Rochester)	6 S;RRs N,S,W	525	27 S6	80 oct.Trees E.
Ithaca	1.3 NW;inlet E	386	25h S6	80,91 oct.No storage.
Keyes-Oneonta (Oneonta)	1.5 W	1000	27 S4	80 oct.Obsts sur fld.
Kirkville	0.3 W;RR N,W	434	19 S1	80 oct.Pole line E.
Ladd's (Mexico)	0.6 W;RR N	383	20 S1	Ltd 73 oct.Pole line NE.
Martin(Montour Falls)	1 NE;RR W,E	460	13 S4	80 oct.
Mason (Geneva)	3.5 WSW;RR SE	790	19 S1	80 oct.Pole line S.
Meachem-Genesee (Rochester)	6 S;RR N	564	22 L S6	80 oct.Floodlgts in emerg.
Mercury (Hammondsport)	1 WSW;RR N	750	15 S2	80 oct.Hill W.
Elmira	2 SSW;RR E	890	16	Trees adj NE,S.
Elmira-Pine City (Elmira)	4.6 SW;hwy N	980	14	Trees WSW.

NEW YORK

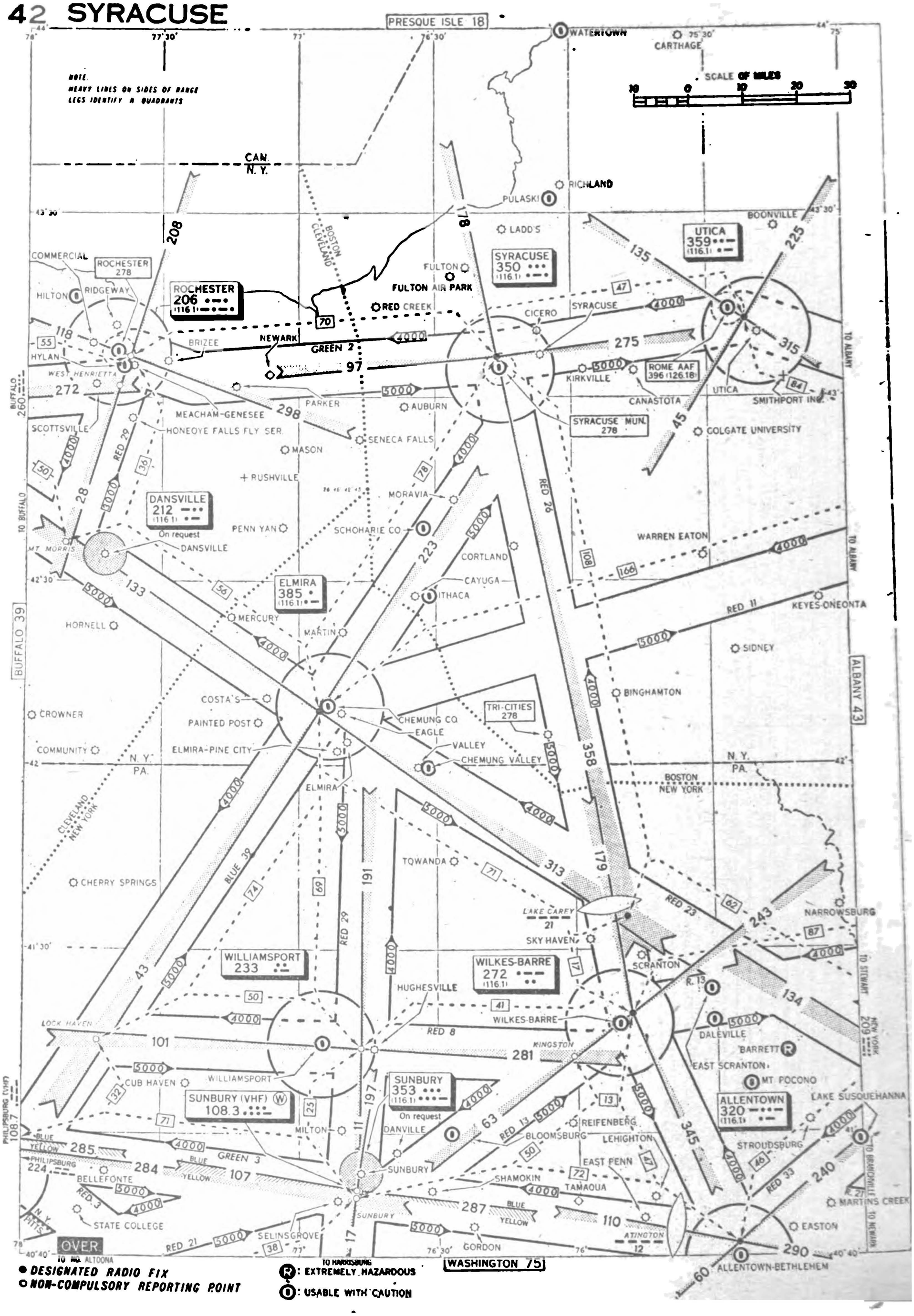
AIRPORT —CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Minoa (NC)	0.3 NW;RR SW	430	14	Trees E.
Moravia Air Haven	1 NW;RR E	730	20 S1	80 oct.S appch blocked.
Narrowsburg	0.6 NNE;RR E	700	18 S4	80 oct.Mts N,NE.
★ Newark Int,27A,CV-AZ	1.3 NNW;rd N,E	490	19 L3	Pole N.
Painted Post	4.4 SW;RR W	950	19 S2	80 oct.Trees E,W.
Parker (Palmyra)	2.8 S;RR N	540	15 S1	80 oct.
Penn Yan	1.1 S;lake W	850	20 S2	80 oct.
► Pulaski	3 SE;riv N	500	18 L S4	80 oct,Port rnwy lgts.Trees WSW
Red Creek	0.8 SSE;RR N	355	18 S1	80 oct.
Richland	0.6 NE;RR SW	560	21 S1	80 oct.Hi-line S.
Ridgeway (Rochester)	3.7 W;canal ESE	530	18 S1	80 oct.Pole lines W,NW,SE.
(N) ROCHESTER	3.7 SW;riv S	549	44h R2 L5 S6	80,91 oct.ARPT OP ENTRY
(A) Rome AAF (A)	2.5 NE	473	63h R1 L5 S6	62,73,91,100 oct.JP-1.
Scottsville	1 N;RR W	600	10	Allway area: 1000 x 1000'.
Seneca Falls	2.2 SE	490	28 S2	80 oct.Obsts sur fld.
Sidney	1 WSW;RR SE	1012	24 S4	80 oct.Pole line S.
Syracuse	3.5 NNE;hwy W	416	65h	Closed.
" MUNICIPAL	5.9 WNW;RR N	396	50h R2 L5 S6	80,91 oct.Rdo rec req.
Tri-Cities (Endicott)	3.5 WSW;riv S	840	35h R1 L3 S6	80,91 oct.Wooded ridge W,ESE.
Utica	7.8 NW;hwy S	525	31 R1 L1 S6	80 oct.Twr W;hill N;trees S.
Warren Eaton (Norwich)	2.5 N;riv,RR E	1015	20 S1	80 oct.Wooded ridge E.
(F) Watertown	5.9 WNW;hwy N	325	50h L1 S4	80 oct.Bcn on req.ARPT OP ENTRY.
Schoharie Co.(Richmondville)	1.3 NE; RR N	1000	16 S1	80 oct. Trees E.
Smithport Inc.(Utica)	2 S	1150	24	Data not verified.
► Rushville	2.5 NNE	1120	20 S1	Unverified.

PENNSYLVANIA

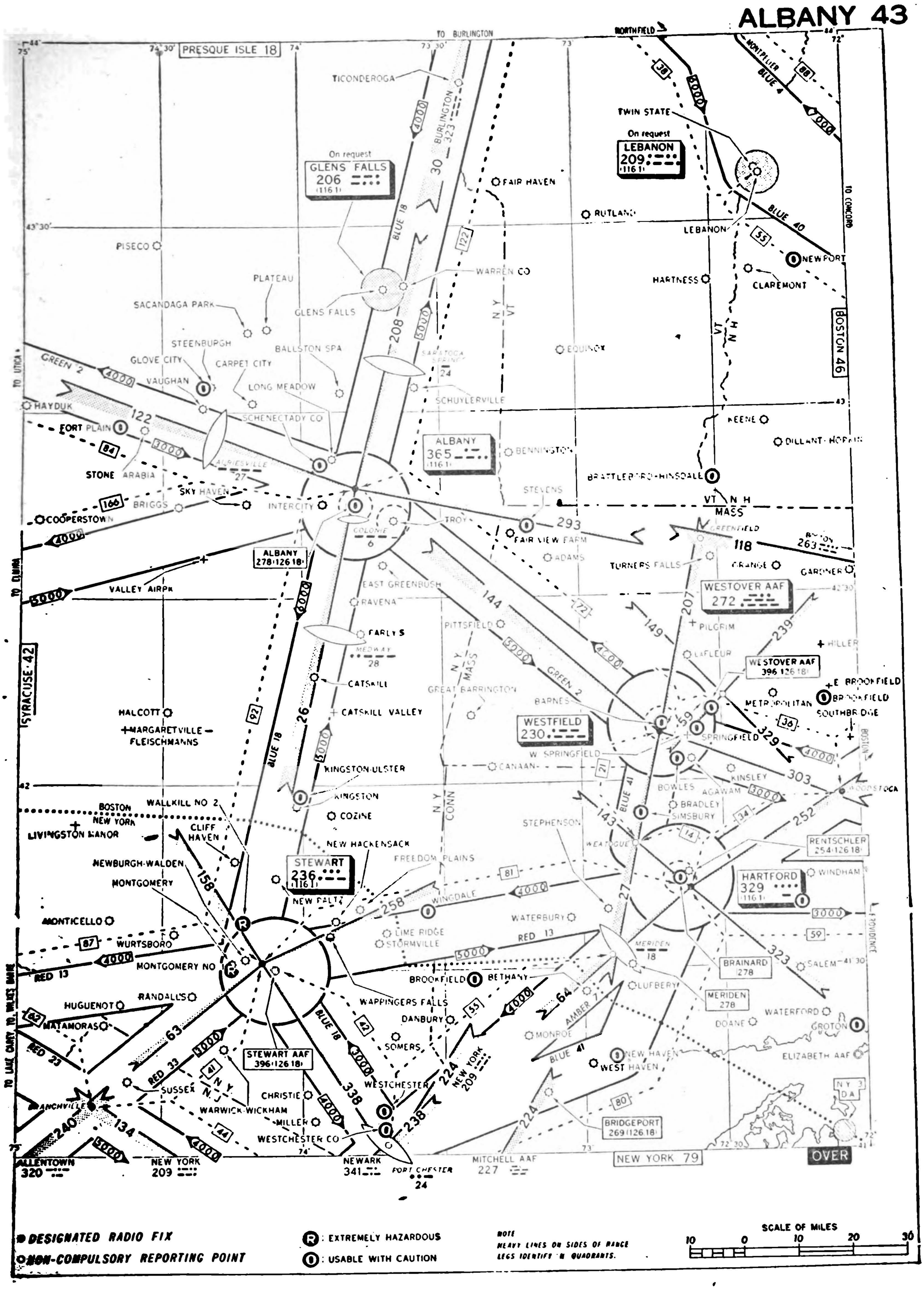
ALLENTOWN-BETHLEHEM (Allentown)	4.6 NNE;RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only. Fld lgts prior req.
Berrett (Canadensis)	1.8 N;hwy SW	1450	18 S2	No fuel. Trees E.
Bellefonte	4.3 ESE;hwy E	1045	21 L3 S6	80 oct.
Bloomsburg	0.8 ESE;riv S	478	32 L3 S6	80,91 oct.Pole lines SW, E.
Chemung Valley (Athens)	1.8 NNW;riv E	850	38 S4	73 oct.
Cherry Spgs. (Corbett)	2.4 W	2265	18 S1	Ltd 80 oct.Trees W,SE, NW.
Cub Haven (Lock Haven)	1.7 E;RR S	550	25h S1	80 oct. Pwr line E.
Daleville	0.6 N;hwy W	1775	19 S4	80 oct.Hill S.
Danville	2.2 SW;RR N	480	22 S3	80 oct.Hill SE.
Easton	3.5 NNW;RR W	380	22 S6	73-91 oct.Pole line N.
East Penn (Andreas)	1.5 NE;hwy S	860	18 S6	73 oct.
Gordon	1.8 W;RR E	960	18 S2	80 oct. Hill S.
Lehighton	0.9 WSW;hwy NW	502	18 S5	80 oct. Trees WSW.
Mid Valley (Olyphant)(NC)	3 N;rd NE	1385	20	
Milton	0.8 S;RR W	450	24 S6	80 oct.Pole line SW.
Mt.Pocono,21,RV-LG	1.5 NW;hwy NE	1925	26h L3 S1	80 oct.Pole line NE.
Mt. View (Nicholson)(NC)	4.8 NNE;crk NW	1280	21	50' trees S.
Reifenberg (Hazleton)	5.8 NNW;rd E	1146	21 S4	80 oct.
Scranton	7.2 WNW;hwy N	1150	24h L3 S6	73-91oct. Fld lgts prior req.
Selinsgrove	1.1 N;hwy E	450	25 S2	73,80 oct.Pole line E,W.
Shamokin (Elysburg)	2 SE;RRs W	1100	16 S2	80 oct.;
Skyhaven (Tunkhannock)	0.3 S;RR E	639	20 S1	80 oct.Pole line,trees SW.
State College Air Depot	3.4 E;hwy S	1200	19 S4	80 oct.Poles adj W.
Stroudsburg-E. Stroudsburg (Stroudsburg)	2.5 NNE;hwy S	426	22 S4	80 oct.
Sunbury	2 NNE	443	37 R1 L1 S6	80 oct. No sto.
★ Tamaqua,Int,61B,CG-LG	2.2 WNW;hwy W	1260	30 L3	
Towanda	1.5 SSE;RR W	700	25h S1	80 oct.Pole line SW,NE.
Wilkes-Barre-Wyoming Valley	3.5 NNE;riv S	546	35h R1 L3 S4	80,91 oct.
Williamsport	5.1 E;riv S	526	43h R1 L5 S6	80,91 oct. Lgts prior req.
East Scranton (Scranton)	7.3 ENE;lake E	1660	23	Trees S. W.
Hughesville	0.6 S;crk E	570	12 S2	No fuel. Trees NE.

n-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. ► NEW OR REVISED DATA

42 SYRACUSE


PRESQUE ISLE 18
WATERTOWN
CARTHAGE
NOTE.
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY R QUADRANTS
SCALE OF MILES
CAN.
N. Y.
PULASKI
RICHLAND
LADD'S
BOONVILLE
UTICA
359
(116.1)
SYRACUSE
350
(116.1)
ROCHESTER
278
COMMERCIAL
ROCHESTER
206
(116.1)
HILTON
RIDGEWAY
FULTON
FULTON AIR PARK
RED CREEK
CICERO
SYRACUSE
NEWARK
GREEN 2
BRIZEE
HYLAN
WEST HENRIETTA
KIRKVILLE
ROME AAF
396 (126.1R)
UTICA
SMITHPORT INT.
CANASTOTA
PARKER
AUBURN
MEACHAM-GENESEE
HONEOYE FALLS FLY SER.
SCOTTSVILLE
SYRACUSE MUN.
278
COLGATE UNIVERSITY
SENECA FALLS
MASON
RUSHVILLE
DANSVILLE
212
(116.1)
On request
DANSVILLE
MT. MORRIS
PENN YAN
MORAVIA
SCHOHARIE CO.
WARREN EATON
CORTLAND
CAYUGA
ITHACA
ELMIRA
385
(116.1)
MERCURY
MARTIN
HORNELL
KEYES-ONEONTA
SIDNEY
BINGHAMTON
COSTA'S
CROWNER
PAINTED POST
CHEMUNG CO.
EAGLE
VALLEY
CHEMUNG VALLEY
TRI-CITIES
278
COMMUNITY
ELMIRA-PINE CITY
N. Y.
PA.
ELMIRA
BOSTON
NEW YORK
CHERRY SPRINGS
TOWANDA
LAKE CAREY
21
SKY HAVEN
NARROWSBURG
WILLIAMSPORT
233
WILKES-BARRE
272
(116.1)
SCRANTON
HUGHESVILLE
WILKES-BARRE
LOCK HAVEN
KINGSTON
DALEVILLE
BARRETT
EAST SCRANTON
MT POCONO
CUB HAVEN
WILLIAMSPORT
SUNBURY (VHF)
108.3
SUNBURY
353
(116.1)
On request
ALLENTOWN
320
(116.1)
LAKE SUSQUEHANNA
MILTON
DANVILLE
REIFENBERG
BLOOMSBURG
LEHIGHTON
STROUDSBURG
PHILIPSBURG
224
BELLEFONTE
SUNBURY
EAST PENN
SHAMOKIN
TAMAQUA
STATE COLLEGE
SELINSGROVE
GORDON
ATINGTON
12
EASTON
MARTINS CREEK
ALLENTOWN-BETHLEHEM
WASHINGTON 75
TO BUFFALO
TO ALBANY
TO STEWART
TO BRANCHVILLE
TO NEWARK
BUFFALO 39
ALBANY 43
NEW YORK 209
PHILIPSBURG (VHF) 108.7
OVER
TO ALTOONA
TO HARRISBURG
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION

ALBANY 43


PRESQUE ISLE 18
TO BURLINGTON
TICONDEROGA
On request
GLENS FALLS
206
(116 T)
BURLINGTON
323
30
BLUE 18
4000
FAIR HAVEN
WARREN CO
PLATEAU
SACANDAGA PARK
GLENS FALLS
208
5000
N Y
VT
PISECO
43°30'
RUTLAND
122
BLUE 4
8000
NORTHFIELD
MONTPELIER
88
TWIN STATE
On request
LEBANON
209
(116 T)
CO
LEBANON
BLUE 40
55
NEWPORT
HARTNESS
CLAREMONT
TO CONCORD
BOSTON 46
STEENBURGH
BALLSTON SPA
GLOVE CITY
CARPET CITY
VAUGHAN
LONG MEADOW
SARATOGA SPRINGS
24
SCHUYLERVILLE
EQUINOX
GREEN 2
4000
HAYDUK
122
FORT PLAIN
84
3000
SCHENECTADY CO
ALPLAUS
27
STONE ARABIA
SKY HAVEN
166
BRIGGS
INTERCITY
COOPERSTOWN
ALBANY
365
(116 T)
BENNINGTON
KEENE
DILLANT-HOPKINS
BRATTLEBORO-HINSDALE
STEVENS
VT N H
MASS
TROY
COLONIE
6
293
FAIR VIEW FARM
ADAMS
GREENFIELD
118
BOSTON
263
TURNERS FALLS
GRANGE
GARDNER
ALBANY
278 126 18
5000
VALLEY AIRPK
6000
EAST GREENBUSH
RAVENA
144
172
PITTSFIELD
149
207
WESTOVER AAF
272
42°30'
PILGRIM
239
HILLER
LAFLEUR
EARLYS
MEDWAY
28
5000
GREEN 2
4000
N Y
MASS
WESTOVER AAF
396 126 18
E BROOKFIELD
BROOKFIELD
SOUTHBRIDGE
METROPOLITAN
CATSKILL
GREAT BARRINGTON
BARNES
59
SPRINGFIELD
36
329
4000
SYRACUSE 42
HALCOTT
MARGARETVILLE
FLEISCHMANNS
CATSKILL VALLEY
92
BLUE 18
26
5000
WESTFIELD
230
W SPRINGFIELD
CANAAN
21
KINSLEY
303
BOWLES
AGAWAM
3000
BOSTON
KINGSTON-ULSTER
42
KINGSTON
COZINE
N Y
CONN
BLUE 41
BRADLEY
SIMSBURY
34
252
BOSTON
NEW YORK
WALLKILL NO 2
LIVINGSTON MANOR
CLIFF HAVEN
NEW HACKENSACK
STEPHENSON
14
RENTSCHLER
254 126 18
NEWBURGH-WALDEN
MONTGOMERY
158
STEWART
236
(116 T)
FREEDOM PLAINS
NEW PALTZ
81
WINGDALE
4000
258
WEATOGUE
27
HARTFORD
329
(116 T)
WINDHAM
3000
MONTICELLO
WURTSBORO
87
RED 13
4000
MONTGOMERY NO
LIME RIDGE
STORMVILLE
WATERBURY
RED 13
5000
MERIDEN
18
59
PROVIDENCE
BRAINARD
278
323
SALEM
41 30
BROOKFIELD
BETHANY
LUFBERY
MERIDEN
278
HUGUENOT
RANDALLS
42
MATAMORAS
RED 23
WAPPINGERS FALLS
DANBURY
55
4000
2 64
AMBER 7
MONROE
WATERFORD
DOANE
GROTON
63
RED 33
4000
STEWART AAF
396 126 18
41
N Y
N J
SOMERS
BLUE 18
42
3000
BLUE 41
NEW HAVEN
WEST HAVEN
ELIZABETH AAF
SUSSEX
WESTCHESTER
224
NEW YORK
209
N Y
3
DA
BRANCHVILLE
CHRISTIE
WARWICK-WICKHAM
MILLER
4000
338
238
80
240
134
5000
44
WESTCHESTER CO
74°
BRIDGEPORT
269 126 18
224
ALLENTOWN
320
NEW YORK
209
NEWARK
341
FORT CHESTER
24
MITCHELL AAF
227
73°
NEW YORK 79
72°30'
72°
41
OVER
TO UTICA
TO CLIMAX
TO LAKE CARRY TO WILKES BARRE
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R : EXTREMELY HAZARDOUS
O : USABLE WITH CAUTION
NOTE
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS.
SCALE OF MILES
10 0 10 20 30

RADIO — CONNECTICUT

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS OF OPER., REMARKS
BRAINARD (Hartford)	278	C	(4), 131.9, 126.18
BRIDGEPORT ARPT	269 (126.18)	C	(4), 116.1, 131.9, 126.18
E.HARTFORD (Rentschler)	254 (126.18)	CI	(3) only
HARTFORD (Brainard)	329(HT)(116.1)	SBMRAZ-VDT, 323°, 2.3	(3); 116.1
MERIDEN FM	(- - -)	FM, 244°, 17.6	Hartford
MERIDEN ARPT.	278	CI	3105,4495 (days)
MASSACHUSETTS			
WESTFIELD (Barnes)	230 (WJ)	BMRLZ-DT, 270°, 1.7	(4)
WESTOVER (Chicopee Falls)(Army)	272 (DO)	BMRAZ	(3)(OCA)
Westover Field	396 (126.18)	CA(ILS), 239°, 2.7	131,126.18(App control
NEW HAMPSHIRE			
LEBANON	209(LP)(116.1)	MIVT	(4), 116.1
NEW YORK			
ALBANY	365(AZ)(116.1)	SBRAZ-VDT	(3), 116.1
Albany Airport	278 (126.18)	C, 196°, 3	(4),126.18,116.1,140.1, 131.9
AURIESVILLE FM	(- - - -)	FM, 362°, 27.2	Albany
COLONIE LFM	(- - -)	LFM, 208°, 5.7	Albany
GLENS FALLS	208(GB)(116.1)	MHVT	(4), 116.1
MEDWAY FM	(. . - - -)	FM, 208°, 27.6	Albany
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
SARATOGA SPRGS FM	(-)	FM, 28°, 24	Albany
STEWART FIELD	236 (SW)(116.1)	BMRLZ-VDT	(4); 116.1
Stewart Field	396 (126.18)	CA, 125°, 2.5	(3), 126.18 (7-23)

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs. Compass Locators in ksc)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (Also COMPASS LOCATOR)	
WESTOVER, MASS.	109.9	333.8	239°Mag	IM (.49) MM ..... (.79) OM -- (3.36)	IMK MMK OMK
WESTOVER, MASS.	109.5	332.6	59°Mag	IM (.02) MM ..... (.72) OM -- (4.42)	IMK MMK OMK

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station, (3)-3105.4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bethany	1.3 N,hwy E	680	21 L2 S6	80,91 oct.No bcn.Lgts
Bradley (Windsor Locks)	2 W,hwy E	171	50h	Antenna S. prior req
BRAINARD(Hartf'd)	2.8 SE,RR W	19	48h R2 L5 S6	80,91,100 oct.Dike E,N.
(N,P) BRIDGEPORT	3.5 ESE	9	48h R1 L5 S4	80,91 oct.
Brookfield	0.3 S,RR,riv E		10 S6	80 oct.No sto.Data not verified.
Canaan	1 N,RR W	680	24 S6	80,91 oct.No sto.Pole line SW.
Danbury	2.5 SW,RR N	454	44h S6	80 oct.Poleline WSW, SSE.
Doane (Essex)	1.2 SW,RR E,N	30	21 S6	80 oct.No sto.Trees,N, NW.
Groton	2.8 SE,RR W	10	50h	
Kinsley (Somers)	2.5 NNW,RR W	200	19 S4	80 oct.
Lufbery (Wallingford)	0.5 WSW,RR E	80	22 S6	80 oct.No sto.Stacks S, N,
Meriden	2.7 SW,RR E	102	35 R1 L3 S6	80 oct.Hi-line W,S.
Monroe	0.7 SSE,rd E,W	620	20 S6	80 oct.
New Haven	3.5 SSE,crk W	4	43h S6	80,91,100 oct.No sto. Pole line NW.
Rentschler (East Hartford)	1 S,riv W	40	58h R1 L5 S6	80,91,100 oct.
Salem	2.1 E,lake NNE	400	21 S6	80 oct.
Simsbury	2.6 NNE,RR W	170	17 S6	80 oct.Trees SE.
Stephenson(Bristol)	1.5 ESE,RR N	240	18 S6	80 oct.
Waterbury(Plymouth)	2.6 S,RR E,W	843	20 S6	80 oct.
Waterford	1.7 N,RR SSE	60	20 S6	80 oct.Trees,hill S.
West Haven	2.7 SW,hwy E	15	18 S4	80 oct.No sto,Poleline E,W blckd.

H-hard surfaced runways H-radio facilities L-lighting facilities S-servicing (See page xiii) NL-(not charted). NEW OR REVISED DATA.

CONNECTICUT

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Windham	3.5 NNW,hwy S	238	44h S1	80 oct.Trees NE,ENE
MASSACHUSETTS				
Adams	1.3 SSE,RR W	1400	18 S1	80 oct.
Agawam Land & Seaplane Base	0.5 S,riv E	50	16 S6	80 oct Pole line SE.
BARNES(Westfld)	3 NNE,RR W	268	50h R1 L5 S6	80, 91 oct.
Bowles (Agawam)	2.4 WSW,trk E	190	40 S4	80 oct.Poleline S,SSE,
Brookfield	1 W,RR SW	680	20 S4	80 oct. W,NW.
Fair View Farm (Williamstown)	4 SW,riv E	954	23 S1	80 oct.Poleline ENE. Hill NNE.Lgt acft ctl
Gardner	2 SW,hwy N	1020	18 S4	80 oct.
Great Barrington	2 WSW,riv N	726	28 S6	80,91 oct.Obst sur fld.
LaFleur (Northampton)	1.2 ENE,riv SW, N	120	26 S4	80 oct No sto.
Metropolitan(Palmer)	5 N,riv W	400	19 S6	80 oct.Hill N.
(P)Orange	1.5 SE,hwy SE	555	50h S1	80 oct.Poles NE.
Pittsfield,3B,AZ-BW	2.4 WSW,hwy NW	1140	27 L3 S1	80 oct.Pole line N.
Springfield	2.3 NE,RR S	205	26 S6	80,91 oct.Bldgs W.
Stevens(N.Adams)	2.8 WSW,RR N	690	20 S4	80 oct.No sto.Poleline
Turners Falls (Montague)	4.2 N	350	33 S6	80,91 oct.Wooded ridge SE,SW.
(A)Westover (Chicopee Falls) (A)	3.8 NNE,riv W	244	70h R3 L6 S6	73,91,100 oct.No sto.
NEW HAMPSHIRE				
Claremont	1.3 W,riv NE	520	28h S2	80,91 oct.Wooded ridge NNE.
Dillant-Hopkins (Keene)	2 S,riv,RR W	481	40h S6	80 oct.
Hinsdale-Brattleboro (Hinsdale)	2.7 NW,RR W	360	18 S4	80 oct.Lndg flares prior req.
Keene Arpk.	3 NW,RR W	500	21 S6	No fuel or sto,100 ll
Lebanon	3.3 WSW,RR N	579	40h R1 L5 S4	80 oct.Rdo repair SE.
Newport	2 NNW,RR W	780	26 S4	80 oct.Pole line E.
NEW JERSEY				
Sussex	1.2 WSW,RR S	420	25 S1	80 oct.200 knoll NNE.
NEW YORK				
Accord (NC)	0.7 N,RR S	260	19	PRIVATE.Trees S,NE, SW.
ALBANY	6.9 NNW,riv N	271	35h R2 L5 S6	80,91,100 oct.ARPT OF
(P)Ballston Spa	3 N,RR E	433	40h L5 S6	80,91 oct. ENTRY.
Briggs(Carlisle)	0.6 SE,RR W	1320	12	
Carpet City (Amsterdam)	6 N,rd NW	887	18 S6	80 oct.Use strips only
Catskill(Cairo)	2 E,hwy S	300	16	Trees sur fld.
Catskill Valley (Catskill)	1.5 SW	100	23 S3	80 oct.Data not verif.
Christie(New City)	1.5 N,RR E	150	16 S4	80 oct.Pole line SW.
Cooperstown	1.4 NNW,RR SE	1660	16 L S4	80 oct.Pole S.Port lgts.
Cozine(Rhinebeck)	0.5 SE,RR W	200	20 S1	87 oct.Poleline W.
Cliff Haven (Accord)	1 1 W,RR S	260	16 S1	80 oct.
East Greenbush	0.8 NW,RR W	260	38, L S6	80 oct. Port rnwy lgts.
(A)Elizabeth (Fisher's Island)(A)	W end Island	7	29h LA	No beacon,Pole line N.
Farly's (New Baltimore)	3 S,RR W	10	20 S1	80 oct.Trees N.
* Ft.Plain Int,40A,	3 NNW,RR NE	680	35 L3	(CV-AZ)
Freedom Plains (Billings)	2 W,rds N,E	340	11 S1	80 oct.Pwrline S.
(P)Glens Falls,18,LG-UL	2.6 NW,rd S	474	36h R1 L3 S6	80 oct.
Glove City	1.5 NE,RR S	860	17 S1	80 oct.(Gloversville)
Halcott(Halcott Ctr)	1 N		10 S1	80 oct.Data unverif.
Hayduk(Herkimer)	0.6 SSW,RR N	400	12 S4	Ltd 80 oct.Poleline E.
Huguenot(Port Jervis)	3.3 NE,RR SE	480	21 S6	80 oct.Trees SW.
Intercity	3.6 SSE,RR NE	340	20 S4	80 oct.(Schenectady)
Kingston	1.5 NW,RR S	150	17 S4	80 oct.Pole line NW.
Kingston-Ulster (Kingston)	2.7 N,RR E	160	30 S4	80 oct.No sto.Pole line E.
Lime Ridge (Beekman)	1.3 SE,RR S	420	16 L2 S6	80 oct.All lgts prior request.
Livingston Manor	0.5 SE,RR W		21h S4	80 oct,91 oct req.Data unver.
Pilgrim(Northampton,Mass.)	9 N	120	16 S3	No sto,Data unver

NEW YORK

ARPT.—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Long Meadow (Rexford)	1.5 NE,RR SW	380	17 S1	80 oct.Poles NNE.RR S
Miller (Nyack)	1.8 WNW,riv E	70	17 S6	80 oct.No sto.Poleline SW.
Montgomery	1 WSW,riv W	393	22 S6	80 oct.Trees N,brushE
(A)Montgomery U.S. Mil.Academy #1	2 SW	355	35h	CLOSED. (A)
Monticello-Sullivan Co.	1.4 N,RR E	1500	24 L S1	80 oct.Port rnwy lgts Windmill SSE.
Newburgh Walden (Walden)	2.2 SSW,riv W	404	32 S6	73,80 oct.Obsts sur fld.
New Hackensack	0.5 W	156	35h	Obsts NE.
New Paltz	0.8 W,RR E	190	20 S1	80 oct.
Piseco	0.5 N,hwy SW	1710	19 S2	Ltd 80 oct.Trees, brush NNE.
Plateau(Northv'l)	2.5 E,riv ESE	1040	24 S1	Ltd 73,80 oct,Trees S
Randall's (Middletown)	1.8 ESE,RR NW	520	20 S2	80 oct.
Ravena	1.2 N,riv E	180	14 S2	80 oct.Lgt acft only.
Rockland(New City)	1 SSE,RR E	240	14	Trees W,hwy E.
Sacandaga Park (Northville)	1 SW,RR W	770	13 S1	80 oct.Pole line WSW.
(P)Schenectady Co.	3 N,RR SE	362	50h L5 S6	80, 91, 100 oct.
Schuylerville,Land & Seaplane Base	2.5 S,riv E	100	29	Trees N,S.
Selkirk (NC)	2.7 E,riv E	160	22	Trees N.
Sky Haven(Delanson)	0.9 NW,RR SE	1100	14 S2	80 oct.ESE,W blocked.
Somers	0.6 SE,RR E,S	562	20 S4	80 oct.No sto.
Starhaven(Middletown)	1.3 NW,RR SW	750	29	Trees SW,SE,NW,RR N
Steenburgh Avia. Svc.(Gloversv'l)	1.5 ENE,RR N	900	8 S1	80 oct.
(A)Stewart(Newburgh)	4 W,hwy N	463	61h R2 L5 S6	91,100 oct.(A)
Stone Arabia (Fort Plains)	3.6 ENE,hwy E	880	18	Pole line NNW.
Stormville	1 ENE,RR S	350	23 S4	80 oct.No sto,Trees NE
* Ticonderoga Int, 22, LG-UL	2.7 NNE,rd E	210	32 L3	Obsts sur fld.
Troy	2 SSE,riv W	327	30 L4 S6	73,91 oct.Trees NW.
Valley Air Park (Middleburg)	1.5 NNW	635	16	Data not verified.
Vaughan(Johnstown)	1 E,hwy W	760	18 S1	Ltd 80 oct.Trees W.
(A)Wallkill, U.S.Mil. Acad. #2 (A)	3 NW,riv E	340	35h	CLOSED.
Wappingers Falls	0.9 SE,rd S	152	21 S4	80 oct.Pole line E,W,S
Warren Co.	2.4 NNE,rd N	325	40h	(Glens Falls)
Warwick-Wickham	4.5 NE,RR W	540	24 S4	80 oct.Ridge N
Westchester(Armonk)	0.5 SSE,riv E	380	23 S6	80,91 oct.Trees sur fld.
(P)Westchester Co. (White Plains)	4 NE,lake W	435	50h L5 S6	80,91 oct.No sto,all lgts prior req.FEE
White(Bedford)(NC)	3.6 SE,hwy E	475	12	
Wingdale	1.5 NE,RR W	400	25 S4	80 oct.No sto.ROUGH
Wurtsboro	2 NE,RR E,SE	560	31 S6	80 oct.Obsts sur fld.
PENNSYLVANIA				
Matamoras	0.5 SSE,riv SE	450	18h L4 S6	80 oct,No bcn.Lgts prior req.
VERMONT				
Bennington	2.5 WNW	830	13 S1	80 oct,470' hill WNW
Equinox(Manchester)	1 E,riv E,N	700	18 S6	80 oct.Poleline,mtn E
Fair Haven	1.5 N	370	20 S2	80 oct.Hills sur fld.
Hartness	3.8 NNW,riv E	570	20 S6	80 oct, (Springfield)
Rutland	5.8 SSE,hwy W	784	40h L3 S4	80 oct.No sto.All lgts prior req.
Twin State (White River Junction)	1 SW,riv,RR E	540	19h S6	80 oct.Hill NW.
Margarotville Fleischmanns (N.Y.)	0.7 S,riv W		21 S4	80,91 oct.No sto.Pole line NE(Margaretville)
East Brookfield (Mass.	0.5 W	690	15 S3	80 oct. Data unverified.
Southbridge(Mass.)	1 N	790	26 S4	Data unverified.
West Springfield(Mass.)	1.5 N,riv E	65	19 S4	Data unverified.
Miller(New Braintree) (Mass.)	6.5 NNW of E Brookfield	600	21 S3	Data unverified.

LOCATION	FREQS. IDENT.	STA. CLASS, BEAR. & DIST.	FREQ.,GUARD HRS. OF OPER.REMARKS
BRUNSWICK NAS	382 (NSM)	SRAZ; 84°,4	(3)
PORTLAND	206(PW)(116.1)	BMRLZ-VDT,149°, 2.2	(4), 116.1
YARMOUTH FM(Navy)	(- - -)	FM,264°,11.4	Brunswick NAS
MASSACHUSETTS			
BEDFORD (Navy)	522 (DBH)	MH	Oper cont.
Bedford AAF	212 (126.18)	CA	(3), 126.18
→ BOSTON (Logan)	263(BW)(116.1)	SBRAZ-VDT,238°, 2.2	(3), 116.1
BRANT ROCK FM(Navy)	(- -)	FM, 141°, 20.2	Squantum NAS
EASTON FM (Navy)	(- - - -)	FM, 218°, 17.7	Squantum NAS
EVERETT LFM	(- - - - -)	LFM, 298°, 4.2	Boston
FRANKLIN FM	(. . - - -)	FM, 238°, 28.7	Boston
LOGAN (Boston)	278 (118.7) (126.18)	AC	(4), 131.9,118.7, 126.18
PEABODY FM	(-)	FM, 310°, 9	Boston
SOUTH BOSTON LFM	(- - -)	LFM, 238°, 4.7	Boston
SOUTH WEYMOUTH (Navy)	420 (NFR)	BMRLZ	(3), 142.74 days on req.
South Weymouth NAF	3295 (142.74)	CN, 82°, 3.1	(3), 142.74, (8-1630,Mon.-Fri.)
SQUANTUM (Navy)	472 (NZW)	BMRLZ	(3);142.74 flt opers.
Squantum NAS	323 (142.74)	CN, 321°, 3.5	3105,4495;142.74 (8-30 min before sunset)
NEW HAMPSHIRE			
BOSCAWEN FM	(- - - -)	FM, 332°, 14.2	Concord
CONCORD	251 (CN)(116.1	BMRLZ-VDT,327°, 2.1	(4), 116.1
→ GRENIER(Manchester) (Army)	338 (DUR)	SBRAZ, 352°,4	
→ Grenier Field	DECOMMISSIONED		
RHODE ISLAND			
CHARLESTOWN NAAS	3295 (142.74)	CN	3105;142.74 (GCA)
GREENE (Providence)	278 (126.18)	C	(4),116.1,131.9, 126.18
→ PROVIDENCE(Greene)	347 (PR)	BMRLZ-DT,180°,3.5	(3)
QUONSET POINT(Navy)	356 (NCO)	BMRLZ	3105; 142.74
Quonset Point NAS	227(142.74) (126.18)	CN, 339°, 2.3	(3);142.74,140.58, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in use. Compass Locators in ital)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)
→ Grenier, N.H.	DECOMMISSIONED			

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs.. (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CONNECTICUT

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Fostoria (Stonington)	1 NE,RR S	5	18 S4	80 oct Lgt acft only
→ Plainfield	1.5 SSW,RR E	160	21 L S6	80 oct. Port rnwy lgts.
* Putnam Int,14,LG-DW	1.7 WSW,riv E	460	22 L3	Pole line N;poles NE
MAINE				
Biddeford	2 SSW,RR NW	11	22 S2	80 oct.Poleline SE.
(N)Brunswick NAS(N)	1.5 SE,RR N	7	60h R1	INACTIVE
Douglas (Brunswick)	3.5 W,RR SE	170	15	
Hilltop (West Buxton)	0.8 WSW,RR S	300	22 S4	80 oct.Poleline ESE

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC (not charted). → NEW OR REVISED DATA.

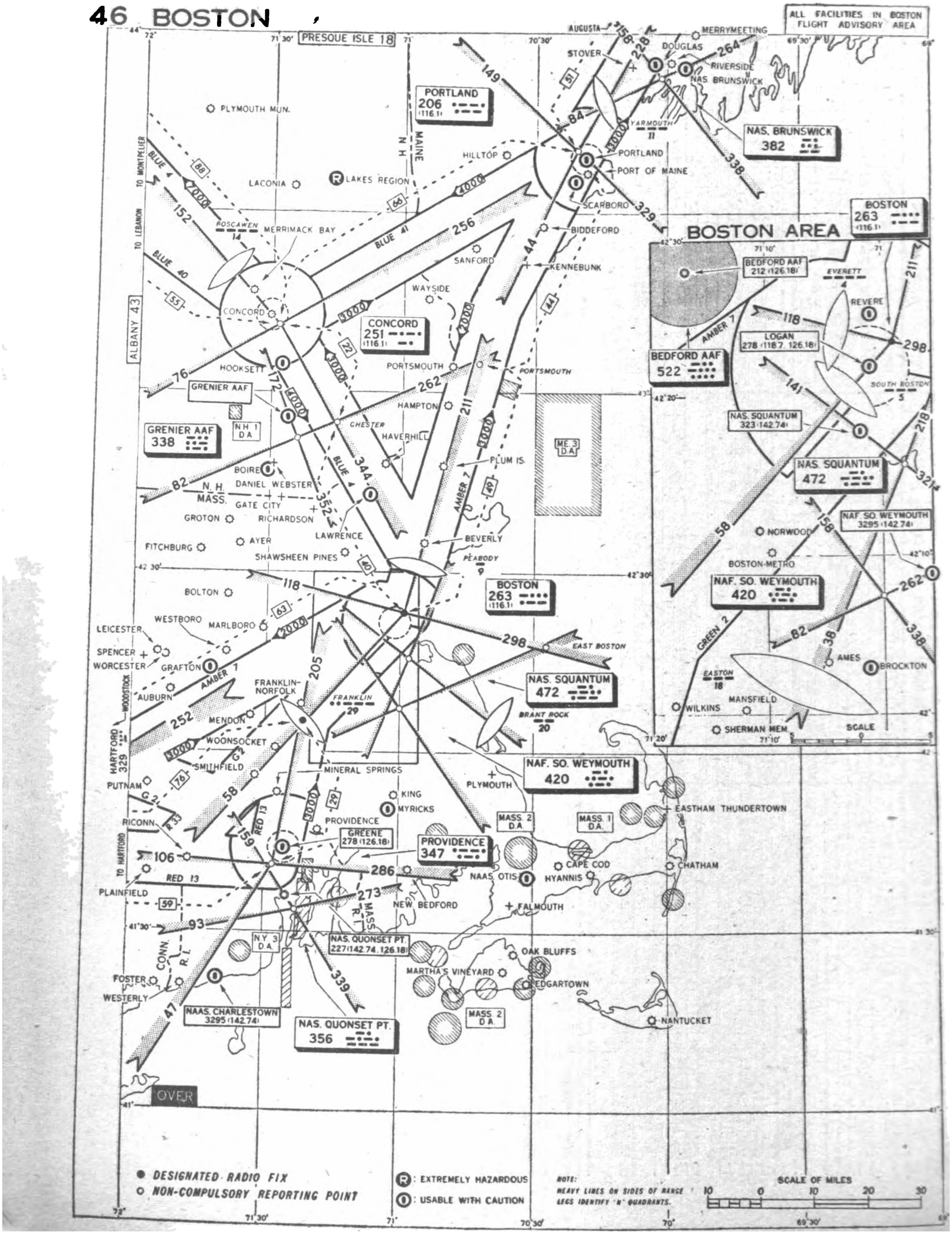
BOSTON — MAINE

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Merrymeeting (Bowdoinham)	1 SSE,riv E	60	18 S1	80 oct.Trees N, S.
PORTLAND	2 W,riv E	60	43h R1 L5 S8	80, 91 oct.
Port of Maine (South Portland)	1.8 SSW,RR E	40	22 S3	80 oct.Poleline SSE, NE, SW.
→ Riverside Airpark (Brunswick)	1 WNW,RR S	60	18 S4	80 oct No sto. Trees NNW.
(P)Sanford	4 SE,hwy N	243	60h L5 S8	80, 91 oct.
Scarboro	2 W,RR SSE	20	25 S2	80 oct.
Kennebunk	2 S,rd E	120	20 S2	80 oct.Trees S.Data not verified.
Stover (Freeport)	4 NNW	200	12 S2	80 oct.Data unverified
MASSACHUSETTS				
Ames (Brockton)	3 WSW,RR W	120	20 S6	73 oct. RR S.
Auburn	2 SW,RR W,E	700	15	Lgt acft only
Ayer	1.5 NW,riv W	268	52h	
(A)Bedford AAF (A)	1 S	128	50h R2L5 S6	80, 100 oct.
(CG)Beverly	3 NW,lake E	108	50h L5 S1	80,91 oct.
Bolton (Clinton)	2.3 NE,RR W	400	17 S6	80 oct.Trees around fld. RR S.
Boston-Metropolitan (Canton)	1 W,riv V	50	21 S6	80, 91 oct
Brockton	2 S,hwy E	128	15 S6	80 oct.Poles E,W.
Cape Cod (West Barnstable)	2.1 SW,lake SW	100	25 S2	80 oct.
Country Club(Wareham) (NC)	1.3 E,riv S	25	17	Pole line,trees N.
Chatham	1.7 WNW,hwy S	66	14 S4	80 oct.Pole line N.
Eastham Thundertown	5 N	45	16 S3	(Orleans) Data unverif
Edgartown	2 S,rds E,NW	20	30 S4	80 oct. No sto.Pole
Falmouth (NC)	2.5 NE	40	18 S4	80 oct.Data not verified.Pole line N
Fitchburg	2.5 SE,bet RRs	334	45h S6	80 oct.Knolls,dike S.
Franklin-Norfolk (Norfolk)	2.5 WNW RR SSE,NW	140	20 S6	80 oct.Pole line S.
Grafton (No.Grafton)	0.7 SSW,riv N	450	30 S8	80 oct.Wooded hill S
Groton	4.6 WNW,RR W	280	28 S6	80 oct.
Haverhill	2 NNE,lake S	125	17 S6	80 oct.Stack S;pole line NW.
HYANNIS	1.2 N,RR E	58	41h S4	80, 91 oct.
King (Taunton)	4.5 ESE,RR N	45	26 S6	73 oct.Poleline NNE.
(P)LAWRENCE	2.5 ENE,lake E	155	40h L5 S8	91 oct. Pole line SSE
Leicester	2 N	1140	15h S4	80 oct.Reservoir SE.
(A,N) LOGAN (Boston)	1.5 E in harb.	12	40hR2 L4 S6	80,91,100 oct.Rdo req. TIVE. Rdo req.
Mansfield	2 SSE,RR NE	124	25 S2	80 oct. Poleline NW, NE.
Marlboro	2.4 E,RR WSW	265	15 S2	80 oct.Ridge SSE,NNW
MARTHA'S VINEYARD (Vineyard Haven)	4.3 S,rd S	68	38h L5 S2	80,91 oct.Lgts prior req.Obsts SE side.
Mendon	0.3 S,lake W	450	18 S4	80 oct.No sto.Pole line N,NW.
Myricks	0.8 N,RR SW	65	20 S4	80 oct.Pole line S.
NANTUCKET	2.6 SE,rd N	47	40h L S8	80 oct.Port.rnwy lgts.
(P)New Bedford	2.5 NNW,RR W	78	50h	RR S.
Norwood	1.8 E,riv E	55	40h S1	80, 91 oct.
Oak Bluffs	0.8 SW,rd W	20	20 S4	80 oct.Trees E,SE.
(N)Otis NAAS(Falmouth)	9 NNE	126	70h	INACTIVE. (N)
Plum Island (Newburyport)	2.3 SE,riv N	15	25 L1 S6	80 oct.Pole line E.
Providence (Seekonk)	2.1 ESE,rd NE	25	17 S4	80 oct.Pole line NNE

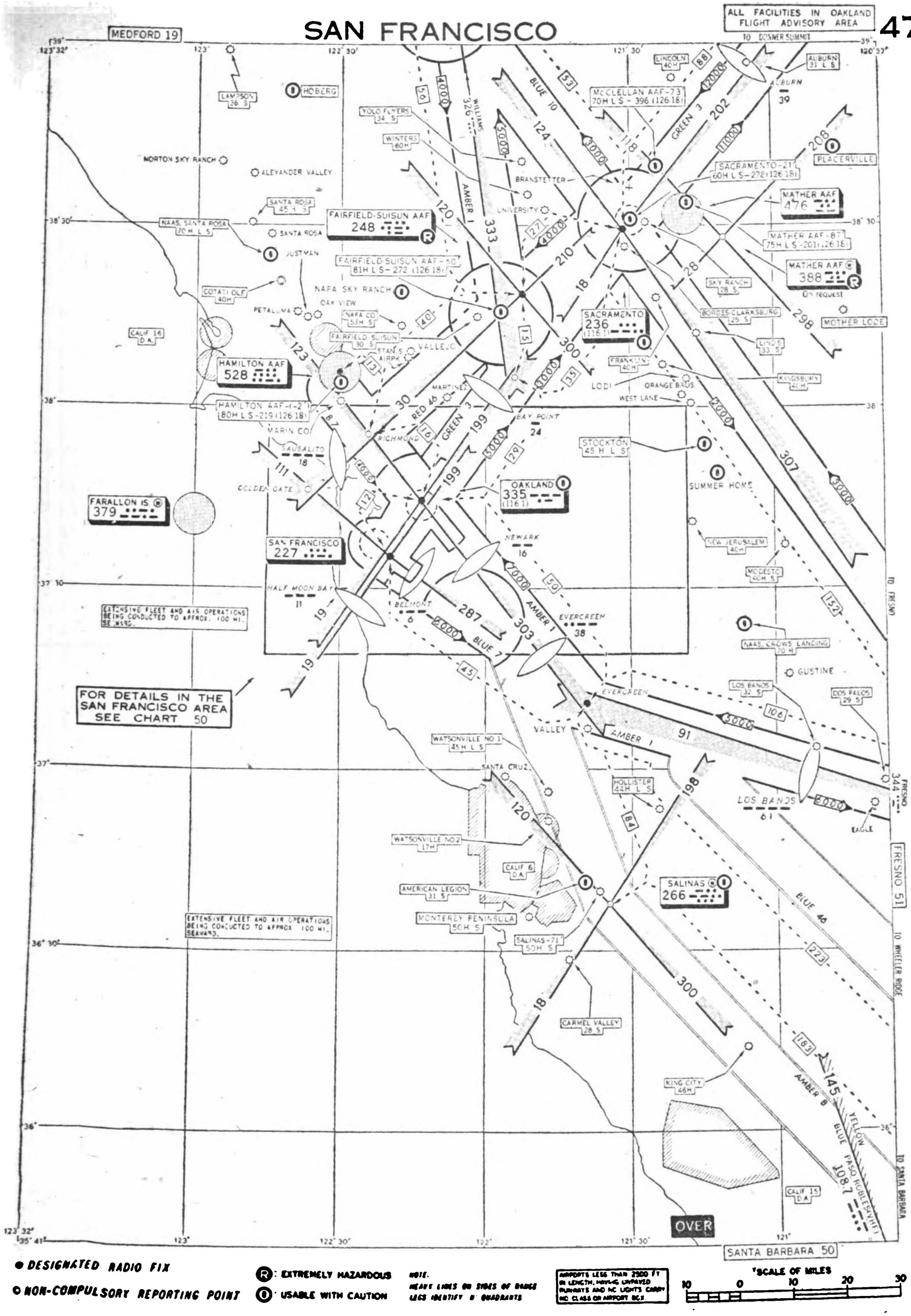
MASSACHUSETTS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Shawsheen Pines (Billerica)	2.7 E,RR NE	110	17 S4	80 oct.No sto.Trees NE,E,SE.
Sherman Memorial (Mansfield)	3 SSW,RR W	130	17 S1	75 oct.Trees sur fld
(N)South Weymouth NAF	1.5 SSE,RR W	152	45 R2 L5 S4	100 oct,B-2 lgts,(N)
(N)Squantum NAS (N)	0.8 W,bay N	10	41h R2 L6 S4	91,100 oct.No sto.No rwy lgts flying.
Westboro	1.9 WNW,hwy N	310	15 S6	80 oct.Rnwy data unverified.
Wilkins (No.Attleboro)	2 NE,lake NW	200	18 S6	80 oct.Poleline ESE
WORCESTER	3.5 W,RR SE	1009	55h	
Spencer	2 NE	1100	15	Data unverified.
Plymouth	SSE	149	25	Data unverified.
→ Revere	1 N	20	21h L S6	80,91 oct.Port lgts,Tee.
Richardson (Dracut)	2 NNW Lowell	115	15 S4	Data unver Data unver.
NEW HAMPSHIRE				
Boire (Nashua)	2.8 WNW,RR N	185	20h L3 S6	80 oct.Lgts prior req
CONCORD	1.5 F,riv W	346	40h R1 L5 S6	80,91 oct. Pole S.
Daniel Webster (Nashua)	3.5 NW,riv E	192	24 S6	80,91 oct.Data not verified.
(A)Grenier (Manchester)	4 S,RR E	230	70h R1	CLOSED (A)
Hampton	1.6 N,RR W	80	22 S5	80 oct.No sto.Trees N, S.
Hooksett Land & Seaplane	2 S,RR E	187	32 S8	80 oct. No sto.
Laconia	3.9 NNE; RR S	536	35h L5 S6	73,80,91 oct,Fld lgts prior req.
Lakes Region (Wolfeboro)	2.6 W,RR E	580	14 S1	80 oct.No sto.
Merrimack Bay (Concord)	5 NNW,RR W	260	15 S2	80 oct.Poleline S.
Plymouth Mun.Arpk.	3.5 WNW,RR N	506	18 S2	Ltd 80 oct.Poleline N
(P)Portsmouth	3 W,bay W	94	50h L5 S8	80,91 oct.
Wayside(Sommersworth)	2.4 W,RR N	200	12 S2	80 oct.Trees SSE.
Gate City (Nashua)	4 S		23 S4	80 oct. Data unver
RHODE ISLAND				
(N)Charlestown NAAS (N)	1.9 SW,hwy N	32	58h R1 L5 S1	91, 100 oct. No bcn.
Greene (Providence)	7 S,RR W	53	41h R2 L5 S6	80, 91 oct.
Mineral Springs (Providence)	4.6 NW,hwy E	240	11 S4	73 oct.No sto. Trees surround field.
(N)Quonset Point NAS (Providence) (N)	16.5 S	14	60hR2L5 S6	91, 100 oct.
Riconn (Greene)	1.8 WNW,RR S	380	15 S4	80 oct.
Smithfield	1 NE,RR W	400	17 S6	73 oct.
Westerly	2.4 SSE	81	40h	Riv. E.
Woonsocket	2.5 E,	400	20 S2	80 oct.Riv WSW

46 BOSTON


ALL FACILITIES IN BOSTON FLIGHT ADVISORY AREA
PRESQUE ISLE 18
PORTLAND 206 (116.1)
PLYMOUTH MUN.
LACONIA
LAKES REGION
HILLTOP
MERRIMACK BAY
CONCORD
CONCORD 251 (116.1)
HOOKSETT
GRENIER AAF
GRENIER AAF 338
N.H. 1 D.A.
BOIRE
DANIEL WEBSTER
N.H. MASS.
GATE CITY
GROTON
RICHARDSON
AYER
FITCHBURG
SHAWSHEEN PINES
LAWRENCE
BOLTON
WESTBORO
MARLBORO
LEICESTER
SPENCER
WORCESTER
GRAFTON
AUBURN
FRANKLIN-NORFOLK
FRANKLIN
MENDON
WOONSOCKET
SMITHFIELD
HARTFORD 329
PUTNAM
RICONN.
MINERAL SPRINGS
KING
MYRICKS
PROVIDENCE
GREENE 278 (126.18)
PROVIDENCE 347
TO HARTFORD
PLAINFIELD
RED 13
NEW BEDFORD
NAS. QUONSET PT. 227 (142.74, 126.18)
N.Y. 3 D.A.
NAAS. CHARLESTOWN 3295 (142.74)
NAS. QUONSET PT. 356
FOSTER
WESTERLY
CONN.
R.I.
MASS.
OVER
PORTSMOUTH
HAMPTON
CHESTER
HAVERHILL
PLUM IS.
ME. 3 D.A.
BEVERLY
PEABODY
BOSTON 263 (116.1)
BIDDEFORD
SANFORD
KENNEBUNK
WAYSIDE
PORTSMOUTH
EAST BOSTON
NAS. SQUANTUM 472
BRANT ROCK
NAF. SO. WEYMOUTH 420
PLYMOUTH
MASS. 2 D.A.
MASS. 1 D.A.
NAAS. OTIS
HYANNIS
CAPE COD
CHATHAM
FALMOUTH
OAK BLUFFS
MARTHA'S VINEYARD
EDGARTOWN
NANTUCKET
EASTHAM THUNDERTOWN
AUGUSTA
STOVER
DOUGLAS
MERRYMEETING
RIVERSIDE
NAS. BRUNSWICK
YARMOUTH
PORTLAND
PORT OF MAINE
SCARBORO
NAS. BRUNSWICK 382
BOSTON AREA
BOSTON 263 (116.1)
BEDFORD AAF 212 (126.18)
BEDFORD AAF 522
EVERETT
REVERE
LOGAN 278 (118.7, 126.18)
SOUTH BOSTON
NAS. SQUANTUM 323 (142.74)
NAS. SQUANTUM 472
NAF. SO. WEYMOUTH 3295 (142.74)
NORWOOD
BOSTON-METRO
NAF. SO. WEYMOUTH 420
AMES
BROCKTON
EASTON
MANSFIELD
WILKINS
SHERMAN MEM
SCALE
ALBANY 43
TO MONTPELIER
TO LEBANON
MAINE
N H
BLUE 4
BLUE 40
BLUE 41
AMBER 1
AMBER 2
GREEN 2
RED 13
G 2
R 33
149
84
228
264
338
329
256
44
152
76
262
211
344
82
352
118
172
298
141
218
321
58
158
262
82
38
338
106
286
273
93
47
339
205
252
159
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

SAN FRANCISCO



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS

Ⓤ : USABLE WITH CAUTION

NOTE.
HEAVY LINES ON SIDES OF BARBS LEGS IDENTIFY 8 QUADRANTS

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS OR AIRPORT DES.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUBURN FM	(-)	FM, 22°,39	Sacramento
BAY POINT FM	(-)	FM, 19°, 24	Oakland
BELMONT FM	(. - -)	FM, 107°, 5.8	San Francisco
EVERGREEN FM.	(. . - -)	FM, 123°, 37.5	Oakland
FAIRFIELD-SUISUN(Fairfield)	248 (DFA)	SBMRAZ-DT	(3),126.18 cont;4220 kc on req.
Fairfield-Suisun AAF (Army)	272 (126.18)	CA; 210°, 4.7	(3); 4220;126.18 (GCA)
FARRALLON ISLAND	379 (FQ)	HW	
HALF MOON BAY FM	(- - -)	FM, 199°, 11	San Francisco
HAMILTON (San Rafael)(Army)	528 (DHF)	HZ	
Hamilton Field	219 (126.18)	CA; 160°, 2.1	(3);126.18.4220 kcs on req.
LOS BANOS FM	(- - - -)	FM, 271°, 61.2	Fresno
→ MATHER (Sacramento)(Army)	388 (DIM)	MRLWZ	On req., 30 min. notice.
Mather Field	201 (126.18)	CA; 298°, 8.9	(3); 126.18
Mather Army (H fac.)	476 (DIM)	H	
McCLELLAN (Sacramento)	396 (126.18)	CA	(3); 126.18
NEWARK FM	(- -)	FM, 123°, 16	Oakland
OAKLAND	335(OA)(116.1)	SBRAZ-VDTX,199°,0	(4); 116.1
SACRAMENTO	236(SZ)(116.1)	SBMRAZ-VDT	(3); 116.1
→ Sacramento Airport	278 (126.18)	C; 22°, 1.7	(4);126.18
SALINAS	266 (DZS)	MRLW , 310°,2.4	
SAN FRANCISCO	227 (SF)	SBMRLZ-DT,291°,3.6	(3)
SANTA ROSA NAAS (NC)	3295 (142.74)	CN	(3); 142.74 (req. only)
SAUSALITO FM	(- - - -)	FM, 278°, 17.5	Oakland

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105. 4495. 6210 kcs.; (4)-3105, 4495, 6210. 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — CALIFORNIA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alexander Valley (Healdsburg)	3.7 ENE,riv NE	180	19 S2	80 oct.Hill SSE.
→ Amador Co.(Jackson)(NC)	2.5 NW,hwy S	1450	15	Trees S.
American Legion(Salinas)	1.8 NNW	75	31	
★ Auburn Int,10,SF-SL	3.3 N,RR SE	1510	31 L3 S6	80 oct.
Borges-Clarksburg (Clarksburg)	2.4 NNE,riv SE	15	25 S6	80 oct.No sto.Power line E.
Branstetter (Sacramento)	3 NNW,RR E	30	30 S6	73,80 oct.Data unver.
Carmel Valley	12.5 ESE,riv S	450	28 S4	80 oct.No sto.
(N) Cotati OLF (N)	1.5 N,RR E	94	40h	INACTIVE. Wires E.
(N) Crows Landing NAAS (N)	2.5 NW,RR E	166	70h	INACTIVE.
Dos Palos	1.6 S,RR W	146	29 S6	80,91 oct.No sto.Pole line S.
Eagle (Dos Palos)	6.5 SW,creek N	167	23 L1 S4	80,91 oct.No sto.
Fairfield-Suisun	1 E,RR N	7	30 S5	80 oct.Poles N,S.
(A) Fairfield-Suisun AAF (A)	5.5 NE	50	81h R2 L5 S4	73,91,100 oct.FOREIGN CLEAR.
→ Franklin	5.5 SSE; riv E	21	40h	STN.
Gustine	2.2 E,RR W	120	24	Hwy N
(A) Hamilton(San Rafael)(A)	6.5 NNE,bay E	-2	80h R2 L5 S6	73-100 oct.JP-1. Twrs W.
Hoberg (Lower Lake)	4 WSW,hwy SW	2150	34 S1	80 oct. Hill NW.
→ Hollister	2.9 N,RR SW	234	44h L5 S2	80, 91 oct.
Justman (Petaluma)	1.5 ENE,RR SW	25	16 S4	80 oct.No sto.
King City	1.5 NNE,RR W	360	46h	
→ Kingsbury (Lodi)	6 WSW	15	40h	RR NE.
Lampson (Lakeport)	4 SSE,hwy S	1300	36 S2	80 oct.Poles SE.
Lincoln (Sacramento)	3.2 WNW,RR NE	120	40h	
Lind's (Lodi)	4.8 N,hwy E	54	33 S6	80 oct.No sto.Poles E.
Lodi Airpark	4.5 SW,RR W	25	28 S6	80 oct. Hwy E.
Los Banos	1.2 W,canal S	126	32 S6	80,91 oct.No sto.Poles S.
(A) McClellan (Sacramento)(A)	9 NE,RR SE	73	70h R1 L5 S4	62,73,91,100 oct.JP-1.
Marin County Inc. (San Rafael)	2.9 NNE,RR W Hwy W	2	17 S4	80 oct.
Martinez	0.8 N,RR S	6	20 S6	80 oct.Hill WSW.
(A) Mather (Sacramento)(A)	10.5 E,RR NW	87	75h R2 L5 S6	91,100 oct. No sto.
Modesto	2.2 ESE,riv S	100	40h L1 S6	73,80 oct.Bcn prior req.
(P) MONTEREY PENINSULA	3.4 ESE,bay N	220	50h L2 S1	80,91 oct.Lgts prior req.Data unver.
→ Mother Lode(Valley Sprgs)	6.6 NE,hwy S	1600	28 S2	80 oct.Pole line ESE,S.
(P) Napa County (Napa)	5.5 S,riv W	37	53h L5 S4	73,80,91 oct.No sto.Fld lgts prior
Napa Sky Ranch (Napa)	2.2 NNW,RR W	40	18 S5	80, 91 oct. Hwy W. req.
→ New Jerusalem(Tracy)	8 ESE	56	40h	River E.
Norton Sky Ranch (Healdsburg)	5.2 NNW,RR E	225	23 S4	80,91 oct.No sto.Pole line NW.
Oak View (Petaluma)	3.3 ENE,RR SW	50	20 S1	80 oct.Pole line WNW.
→ Orange Bros. (Stockton)	5 N	23	20 L S6	80 oct.Port rnwy lgts.Poles W.
Petaluma	1.7 N,RR E,W	30	15 S4	80 oct.
(P) SACRAMENTO	4 S,RR W	21	60h R2 L5 S1	80 oct.Pole line E.
→ Salinas	2.5 SE,RR SW	71	50h L5 S6	80, 91 oct. Lgts on req.
Santa Cruz	4.8 E,RR W	96	24 S1	80 oct.
Santa Rosa	7 NW,RR E	118	45h L5 S6	80,91 oct.Lgts on req.
Santa Rosa Airpark	2.8 NNW,RR SW	170	22 S1	73, 80, 91 oct.
(N) Santa Rosa NAAS (N)	2.5 SW, RR E	110	70h R1 L5 S4	91, 100 oct. No sto.
→ Sky Ranch (Sacramento)	4 SSE,RR W	26	28 L S5	80,91 oct.Port rnwy lgts.Pole
Stan's Arpk (Vallejo)	2.5 NNW,RR E	5	24 S4	80 oct. line SE.
State Forestry(Davis)(NC)	3 E,hwy N	228	26	Power line W.
(A) Stockton	4 SSE,RR W,SW	23	45h L5 S6	80, 91, 100 oct.
Summer Home(Manteca)	1.5 NE,hwy W	50	18 S2	80 oct.Wires,trees SE.RR W.
University(Davis)	2.4 WSW,RR E	65	37 S6	80, 91 oct. Hwy S.
Vallejo Sky Harbor (Vallejo)	3.5 NNW,RR, hwy adj E	10	25 S6	80,91 oct.
Valley (Morgan Hill)	1.2 S,hwy E	540	17 S1	80 oct.Pwr pole SE.
(P) Watsonville #1	2.6 NW,bay SW	178	45h L5 S6	80, 91 oct.
Watsonville #2	3.8 SSW,bay W	125	17h	
West Lane(Stockton)	4.1 N,RR W	25	25 S1	73, 80 oct.
Winters Flight Strip(Davis)	6.2 WNW,hwy W	97	60h	
→ Yolo Flyers (Woodland)	5.5 W,hwy E	75	34 L S4	80 oct.No sto.Port rnwy lgts. Poles E.
→ Placerville	1.5 SE,hwy NW	2550	32	Use in emerg. only.

h-hard surfaced runways R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted) → New or revised data

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
ALAMEDA NAS	257(126.18,142.74)	CN	(3);126.18,142.74
Alameda NAS (Seaplane)	2870	CN	2870
BAKERSFIELD (Kern County)	239(BD)(116.1)	SBMRAZ-VDT,141°,1.5	(3); 116.1
BELMONT FM	(. - -)	FM; 107°, 5.8	San Francisco
BELMONT	356 (F)	FMK; 107°, 5.8	San Francisco
EVERGREEN FM	(. . - -)	FM; 123°, 37.5	Oakland
HALF MOON BAY FM	(- - -)	FM; 199°, 11	San Francisco
→ KERN COUNTY, BAKERSFIELD	278 (118.5)	C (ILS)	(4); 126.18,131.9,118.5, 142.74
LEBEC FM	(. -)	FM, 141°, 42	Bakersfield
MOFFETT NAS (Mountain View)	3295	CN	(3); 126.18, 142.74
MT. VIEW (Navy)(Moffett NAS)	323 (NUQ)	BMRLZ; 320°, 1.9	(3); 126.18,142.74
NEWARK FM	(- -)	FM; 123°, 16	Oakland
NEWARK	371 (O)	FMK; 123°, 16	Oakland
OAKLAND	335(OA)(116.1)	SBRAZ-VDTX	(4); 116.1
Oakland Airport	278 (126.18)	AC (ILS); 199°, 0	(4);126.18,118.7,131.9 (GCA)
POINT MUGU NAF	338 (142.74)	CN	3105,6210; 142.74 (8-20)
SAN FRANCISCO	227 (SF)	SBMRLZ-DT	(3)
San Francisco Airport	269(126.18,118.9)	C; 291°, 3.6	(4); 126.18,118.9,131.9
SANTA BARBARA	230(OY)(116.1)	BMRLZ-VDT	(4); 126.18,142.74,116.1
Santa Barbara Airport	278 (118.7)	C; 74°, 2.2	(4); 118.7 (7-23)
SAUSALITO FM	(- - - -)	FM; 278°, 17.5	Oakland
→ PASO ROBLES, CALIF.	(108.7)(OB)	VARW	

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs., Compass Locators in kcs.)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
Kern County, Calif.	109.9		300°Mag.	IM- (.07)	MM- ····· (.80)	OM- -- (4.71)
					MMK-	OMK-
Oakland, Calif.	109.9		273°Mag.	IM- ····· (.12)	MM-	OM- -- (2.00)
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-

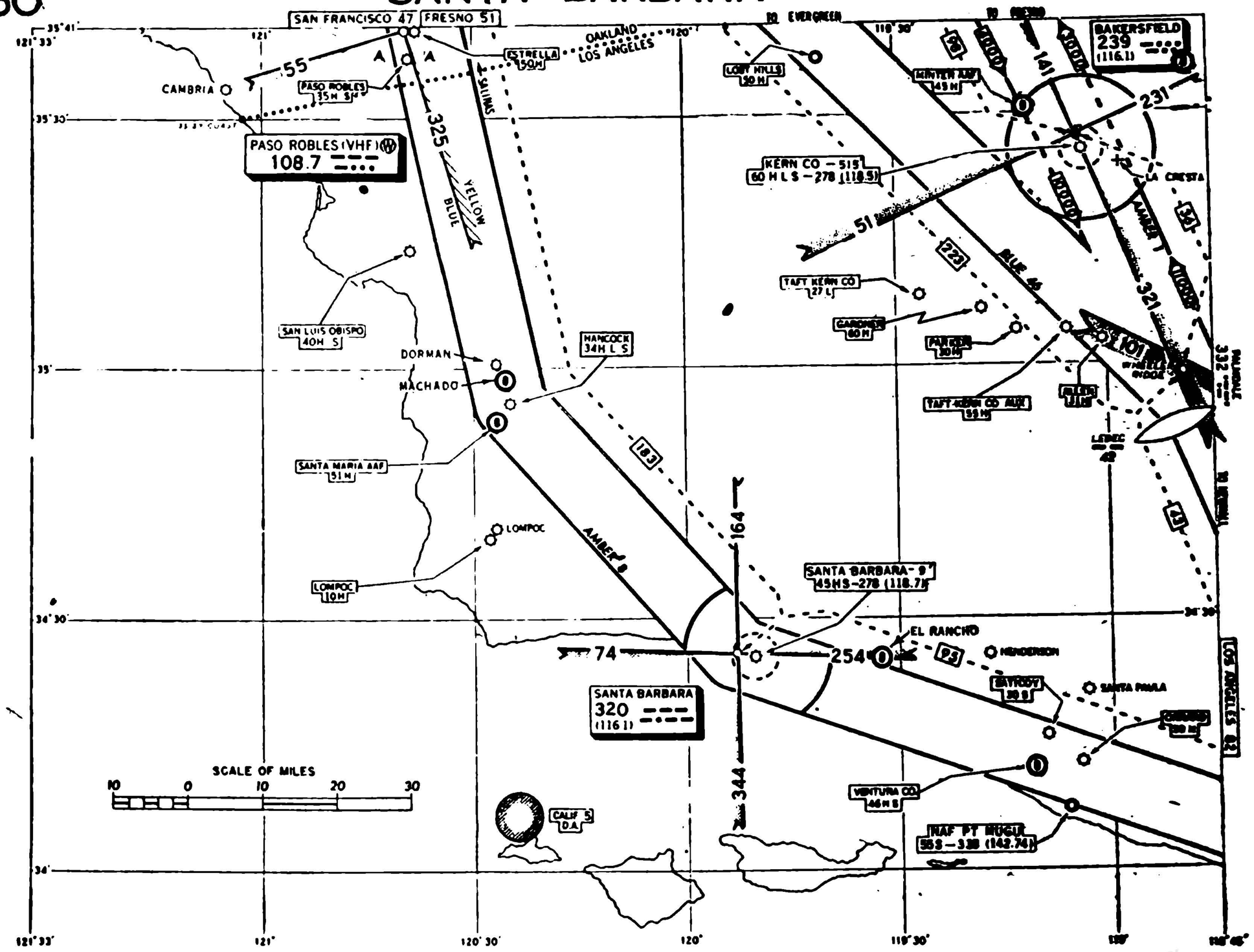
S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs., (4)-3105, 4495, 6210, 3117.5 kcs. **Parenthetical Numbers in the Frequency Column** Indicate **VHF on** which **Voice** is **Available**.

AIRPORTS — CALIFORNIA

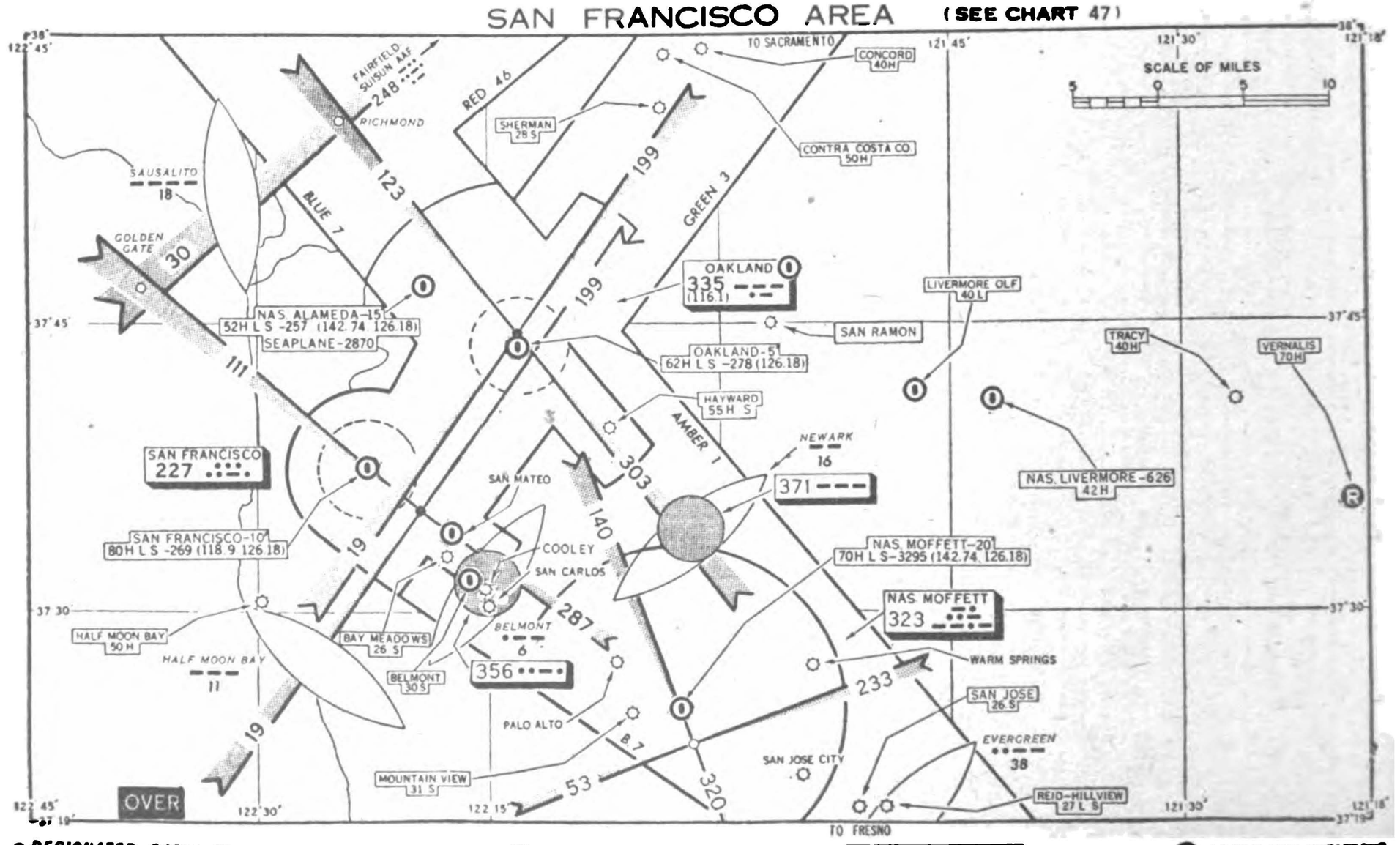
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Alameda NAS (N)	4.5 WNW;bay S,W	15	52h R1 L5 S6	91,100 oct.No sto.NAFC.
Allen (Taft)	26 ESE	500	31h	
Bakersfield-Kern Co. #2 (Bakersfield)(NC)	6 E,RR,hwy S	660	21	
Bay Meadows (San Mateo)	1 7SE,RR W	6	26 L3 S6	80,91 oct.Bldg SSE.No bcn. Strip lgts prior req.
Belmont	0.5 N,RR W	5	30 S4	73,80 oct.No sto.Bay E.
Cambria	0.9 SSE,hwy E	350	19	Trees W, NW.
Concord	1.9 NE,hwy E	104	40h	Hwy S, N.
Contra Costa Co. (Concord)	1.5 NW,hwy S	23	50h	
Crawford USFS (Santa Ynez)	4.2 ESE,hwy S	525	13	(NC)
Cuyama USFS (Maricopa)(NC)	16 SSW	2749	26	
Estrella (Paso Robles)	4.5 NE	806	50h	Use in emergency.
Gardner (Taft)	9 ESE,RR SE	444	60h	
Half Moon Bay	5.5 NW,hwy NE	36	50h	
Hancock (Santa Maria)	1.2 SE,RR N	236	34h L4 S4	80,91,100 oct.No bcn.Pwrline,twr W
Hayward	2 WSW,RR W	25	55h L5 S6	80,91 oct.No sto.Fld lgts prior req
Henderson (Ojai)	3.5 WSW,RR E	600	16 S1	80 oct.
(P) KERN COUNTY (Bakersfield)	4.4 NNW,RR W	515	60h R3 L5 S1	80, 91 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data unver.
(N) Livermore NAS (N)	3.7 E,RR N	626	42h	INACTIVE.
(N) Livermore OLF (N)	2 WNW,hwy E	448	40 L2	Poles E,N.Twr NE.
Lompoc	0.6 N,riv N	94	10h	
Lompoc, com.	2.5 N,riv S	200	18 S1	80 oct.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(A) Minter (Bakersfield)(A)	13.5 NW,hwy E	410	45h	INACTIVE.
(N) Moffett NAS (LTA)(Mountain View) (N)	2 NE,hwy S	20	70h R2 L4 S4	91,100 oct.No sto.
Mountain View	2.2 NW,RR W	57	31 S6	73 oct.
(A,N) Oakland	5 S,RR SE	5	62h R3 L6 S6	73,80,91,100 oct.
Oxnard Landing Strip	5.5 E,RR S	78	50h	Use in emergency.
→ Palo Alto	2 ENE,bay E	5	23 L S6	73,80 oct.Port.rnwy lgts.Poles S
Parker (Taft)	15 SE	550	30h	
Paso Robles	2.7 ESE,hwy W	810	35h S5	80,91,100 oct.
(N) Point Mugu NAF (N)	3.6 NW		55 R1 S4	73,91,100 oct.Twr,hi-line E.
Reid-Hillview (San Jose)	4 E,hwy N	200	27 L3 S6	80,91 oct.No sto.or bcn.Poles N,
San Carlos	1 SE,RR SW	2	23 S6	80,91 oct.Poleline NW,SE. S.
(P) SAN FRANCISCO	9 SSE,bay E	10	80h R2 L5 S1	80,100 oct.No sto.Rdo req.
San Jose City (San Jose)	2 NW,RR SW	70	18 S6	91 oct.No sto.Pwr line S.
(P) San Luis Obispo	2 SSE,hwy E,S	200	40h L5 S4	80,91 oct.No sto.
San Mateo	2.2 ESE,RR E	6	15 S6	80,91 oct.No sto. Hwy W.
San Ramon	2.5 SE,RR adj E	440	25 S2	80,91 oct.
(P) SANTA BARBARA	8.1 W;ocean S	9	45h R2 L5 S6	80,91,100 oct.Fld lgts till 2300
(A) Santa Maria AAF (A)	3.5 S,hwy E	258	51h	INACTIVE.
Santa Paula	0.8 S,riv S	240	22 L S6	80 oct.Port.strip lgts prior req.
Saticoy	1.5 S,RR N	80	30 S1	80,91 oct.No sto.Trees NE.
Shafter-Kern Co.(Shafter)(NC)	3.3 SSE,RR adj E	340	20	
Sherman (Walnut Creek)	3 N,RR E	100	28 S4	80 oct.Poles NW,SE.
Taft-Kern County (Taft)	0.6 E,hwy N	875	27 L3	
Taft-Kern County #2(Taft)(NC)	7 ESE	444	26	
Taft-Kern Co. Aux. (Taft)	21 SE	444	55h	
→ Tracy #5	3.6 S	190	40h	
Ventura County (Oxnard)	1 W,hwy E	44	46h L S6	80,91 oct.Flares prior req.
Vernalis	2.3 S	212	70h	
Warm Springs	2.3 SSE,RR W	100	29 S6	91,80 oct.No sto.
Cooley (San Carlos)	2.9 NNW,RR S	6	21 S6	80,91 oct. Hwy SW.
→ Dorman (Santa Maria)	4 N,RR SW	380	23 S1	80 oct.
→ El Rancho Arpk (Carpenteria)	2.3 WNW,RR SW	11	18 S1	80 oct.
→ Machado (Santa Maria)	2.2 N,RR S	230	22 S4	80 oct. No sto.
→ San Jose	3.4 E; road SW	125	26 S4	91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted). → **New or revised** data

SANTA BARBARA



SAN FRANCISCO AREA (SEE CHART 47)



● DESIGNATED RADIO FIX

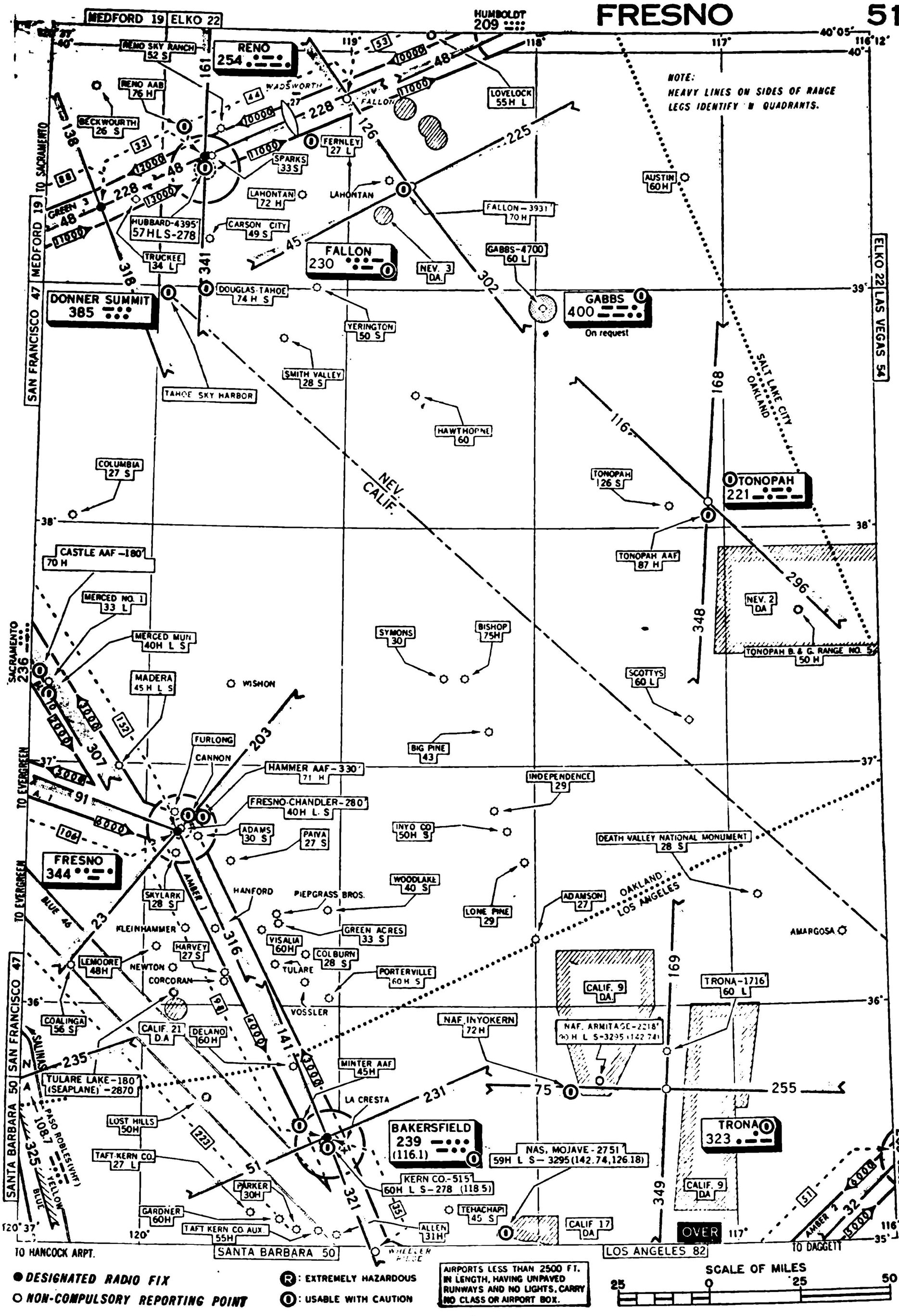
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF DANCE LEGS IDENTIFY 8 QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SYM.

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION


MEDFORD 19 ELKO 22
HUMBOLDT 209
RENO SKY RANCH 52 S
RENO 254
RENO AAB 76 H
BECKWOURTH 26 S
WADSWORTH
FALLON
LOVELOCK 55 H L
FERNLEY 27 L
SPARKS 33 S
LAHONTAN 72 H
LAHONTAN
HUBBARD-4395' 57 H L S-278
CARSON CITY 49 S
TRUCKEE 34 L
FALLON 230
NEV. 3 DA
DONNER SUMMIT 385
DOUGLAS-TAHOE 74 H S
YERINGTON 50 S
GABBS 400
On request
FALLON-3931' 70 H
GABBS-4700 60 L
AUSTIN 60 H
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY IN QUADRANTS.
SMITH VALLEY 28 S
TAHOE SKY HARBOR
HAWTHORNE 60
SALT LAKE CITY
OAKLAND
SAN FRANCISCO 47 MEDFORD 19
ELKO 22 LAS VEGAS 54
COLUMBIA 27 S
NEV. CALIF.
TONOPAH 126 S
TONOPAH 221
TONOPAH AAF 87 H
CASTLE AAF-180' 70 H
MERCED NO. 1 33 L
MERCED MUN 40H L S
SACRAMENTO 236
SYMONS 30
BISHOP 75H
NEV. 2 DA
TONOPAH B. & G. RANGE NO. 5 50 H
SCOTTYS 60 L
MADERA 45 H L S
WISHON
FURLONG
CANNON
HAMMER AAF-330' 71 H
BIG PINE 43
INDEPENDENCE 29
FRESNO-CHANDLER-280' 40H L S
INYO CO 50H S
ADAMS 30 S
PAIVA 27 S
DEATH VALLEY NATIONAL MONUMENT 28 S
FRESNO 344
SKYLARK 28 S
HANFORD
PIEPGRASS BROS.
WOODLAKE 40 S
LONE PINE 29
ADAMSON 27
OAKLAND LOS ANGELES
AMARGOSA
KLEINHAMMER
GREEN ACRES 33 S
VISALIA 60H
COLBURN 28 S
HARVEY 27 S
LEMOORE 48H
NEWTON
CORCORAN
TULARE
PORTERVILLE 60 H S
CALIF. 9 DA.
TRONA-1716' 60 L
VOSSLER
COALINGA 56 S
CALIF. 21 D.A
DELANO 60H
NAF. INYOKERN 72 H
NAF. ARMITAGE-2218' 60 H L S-3295 (142.74)
MINTER AAF 45H
TULARE LAKE-180' (SEAPLANE) -2870
LA CRESTA
LOST HILLS 50H
BAKERSFIELD 239 (116.1)
TRONA 323
NAS, MOJAVE-2751' 59H L S-3295 (142.74, 126.18)
TAFT-KERN CO. 27 L
KERN CO.-5151' 60H L S-278 (118.5)
PARKER 30H
GARDNER 60H
TEHACHAPI 45 S
CALIF 17 DA
CALIF. 9 DA
TAFT KERN CO. AUX. 55H
ALLEN 31H
SILVER LAKE 269
TO EVERGREEN
SAN FRANCISCO 47
SANTA BARBARA 50
TO HANCOCK ARPT.
SANTA BARBARA 50
LOS ANGELES 82
TO DAGGETT
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
25 0 25 50

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR & DIST.	FREQS.GUARDED,HRS OF OPER., REMARKS
ARMITAGE (Inyokern)	3295(142.74)	CN	(3).126.18.142.74(days)
→ BAKERSFIELD (Kern Co.)	239 (BD)(116.1)	SBMRAZ-VDT, 141°, 1.5	(3).116.1
→ CASTLE FIELD (Merced)	DECOMMISSIONED		
DONNER SUMMIT	385 (DS)	BMRL-DT	(4)
→ FRESNO (Fresno-Chandler)	344 (FT)	SBRAZ-DT,23°, 0.9	(4)
→ KERN CO., (BAKERSFIELD)	278 (118.5)	C(ILS)	(4):126.18.131.9,113.5,
MOJAVE NAS	3295(126.18)(142.74)	CN	(3);126.18.142.74 142.74
→ TRONA	323 (EW)	SBMRAZ-DT, 349°,11	(4)Not manned cont.
TULARE LAKE SEAPLANE ANCHORAGE	2870	CN	
NEVADA			
→ FALLON	230 (VA)	SBRAZ-DT, 219°, 2.9	(4) Not manned cont.
→ GABBS (Int.)	400 (GZ)	MHP	(4) not manned cont.
HUBBARD FLD (Reno)	278	CI	(4): Wed,Sat,Sun 6-19, other days 8-1630)
RENO-(Hubbard)	254 (RP)(116.1)	SBRAZ-VDT,161°,3.3	(4); 116.1
TONOPAH (AAF)	221 (RY)	SBRAZ-DT,1689,2.8	(4) not manned cont.

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
KERN CO., CALIF.	109.9		300° Mag.	IM (.07)	MM ·····(.80)	OM --(4.71)
				MK	MMK	OMK

——S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., ——(4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
→ Adams (Fresno)	4 SE;RR S,W	295	30 L S6	80,91 oct.No sto.Poleline NNW,SSE.Port rnwy lgts.
Adamson (Olancha)	0.6 SE;hwy W	3648	27	30' poles W; 75' twr E.
Allen (Taft)	26 ESE	500	31h	
Amargosa (Death Valley Jct)	0.7 W;hwy E	2037	22 S1	73 oct. Pole line S.
Bakersfield-Kern Co.#2(NC)	6 E;RR, hwy S	660	21	
Big Pine	3.4 ESE;RR W	4000	43	1500'mts SE;1000' mts E.
Bishop	2 ENE;riv E	4121	75h L5	All lgts prior req.
Bryant (Bridgeport)(NC)	0.3 NNE;hwy SW	6465	40	
Cannon (Fresno)	2 N;RR W	310	19 S6	80 oct.Pole line NNW.
(A) Castle (Merced) (A)	7 NW;RR SW	180	70h	CLOSED.
Coalinga	1.5 N;hwy E	664	56 S4	80 oct. Hill N,W.
Colburn (Lindsey)	4.7 W;RR E	325	28 S4	73, 91 oct.
Columbia (Sonora)	4 NNW;hwy E	2150	27 S6	73,80 oct.
Corcoran	1.3 WNW;rd S	220	19 S4	73,80 oct.No sto.Poles N, NW, SE.
Cornell (Porterville)(NC)	2.4 SSW;RR E	470	26	Poles SE.
Death Valley (Furnace Creek)	1 WNW	-178	28 S2	87,100 oct.
Defense Plant Corp.(Tulare)	6 SE;RR W	283	23	(NC)
Delano	1.5 SE;RR W	315	60h	
FRESNO-CHANDLER (Fresno)	1.8 W;hwy N	280	40h R1 L5 S6	73,80,91,100 oct.No sto.
Furlong (Fresno)	5.5 NW;RR W	285	33 S6	80,91 oct.
Gardner (Taft)	9 ESE;RR SE	444	60h	
Great Western (Reedley)(NC)	5 N;RR W	380	20	
Green Acres (Visalia)	1.5 NW;RR S	300	33 S6	80 oct.Pole line SE.
(A) Hammer (Fresno)(A)	4.8 NE;rds N,E	330	71h	INACTIVE.
Hanford	1.2 SE;RR W	250	20 S4	80 oct.
Harvey (Corcoran)	2.7 NNW;RR W	200	27 S4	80 oct.No sto.
Independence	0.9 N;hwy W	3926	29	Trees S.
Inyo County (Manzanar)	0.5 E;hwy W	3875	59h L5 S2	80 oct.All lgts prior req.
(N) Inyokern NAF (N)	0.5 WNW; RR E	2455	72h	INACTIVE.
(P) KERN COUNTY (Bakersfield)	4.4 NNW;RR W	515	60h R3 L5 S1	80,91 oct.
Kleinhammer (Lemoore)	1.2 N;hwys S	225	16 S2	80 oct.
La Cresta (Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data unverified.
Lemoore	9 SW;RR NW	241	48h	
Lone Pine	0.8 SE;RR E	3700	29	Hazardous.
(A) Lost Hills #8 (A)	0.2 NE	285	50h	INACTIVE.
(N) Armitage NAF (Inyokern)(N)	8 ENE	2218		91,100 oct.No sto.CLOSED
Boston Land Co.(Westhaven)	1.7 SSW;hwy N.	300	31	(NC)

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing. see page XIII(NC)-Not charted. → NEW OR REVISED DATA

AIRPORTS — CALIFORNIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Madera	3.5 WNW;hwy E	271	45h L5 S4	80-100 oct. No sto.
Mariposa (NC)	4.5 NW,hwy SW	2250	21	
(P) Merced, mun.	1.6 WSW,RR NE	152	40h L5 S6	80,100 oct,No sto.
Merced #1	2.5 NW;RR SW	165	33 L3	No beacon
(A) Minter (Bakersfield)(A)	13.5 NW,hwy E	410	45h	INACTIVE.
(N) Mojave NAS (N)	0.7 E;hwy W	2751	59h R1 L5 S6	91,100 oct. No sto.
Monache Meadow (Olancha)	10.8 WSW	8000	25	USPS. (NC)
Newton (Stratford)	2.7 SSW;riv E	194	23 S4	80 oct.No sto.Pwrline N,NW
Paiva Intercity (Parlier)	1.5 WSW;RR NE	330	27 S4	80 oct.Poles ESE.
Parker (Taft)	15 SE	550	30h	
Piepgrass Brothers (Visalia)	3.7 NNW,riv S	320	20 S2	80 oct.
Porterville	3 SW,RR E	430	60h S1	91 oct.
Randsburg (NC)	1.8 NE,rd SE	3500	20	Poles W.
Sequoia (Visalia)(NC)	8.5 NNW,RR E	310	23	
Shafter-Kern Co.(Shafter)(NC)	2.3 SSE;RR adj S	340	20	
Skylark (Fresno)	8.5 SSW,RR SW	355	28 S6	80,91 oct.
Symons (Bishop)	4 W; hwy N	4350	30	
Taft-Kern County (Taft)	0.6 E;hwy N	875	27 L3	
Taft-Kern County #2 (Taft)	7 ESE	444	26	(NC)
Taft-Kern Co. Aux. (Taft)	21 SE	444	55h	
Tehachapi	1 N; RR S	3952	45 L S2	73,91 oct. Pole line SE.
Templeton Meadow (Olancha)	12 W	8800	20	S and W blocked. USPS.(NC)
★ Trona 13, RV-ND	5 NE;rd W	1716	60 R1 L3	Fld sur by mtns.
★ Truckee Int, 16B, SP-SL	3.6 ENE;RR S	5820	34 L3	Snow Dec.-Apr.
Tulare	2.9 SSE; RR W	300	20 L S6	80,91 oct. No sto.Port rnwy lgts
Tunnel (Olancha) USPS (NC)	16.5 WNW;riv S	9100	21	Mtns - timber 2000' NE.
Visalia	5 W;RR W	300	60h	
Vossler (Woodville)	1.3 E;hwy S	345	25	Trees N, S.
→ Wishon (Bass Lake) USPS	1.5 WNW	3300	22 S1	80 oct, Trees NNW.
Woodlake	2.6 ESE; lake NW	450	40 S4	80 oct. No sto.
NEVADA				
(P) Austin	7 WSW;riv NW	5730	60h	
Carson City	3.1 NE;hwy W	4684	49 S6	80 oct.Mts N, hill W.
(P) Douglas-Tahoe (Minden)	2.8 NNE;RR W	4709	74h S6	73 oct.
★ Fernley Int, 22, SP-SL	3.3 E;hwy NW	4156	27 L2	
Fallon	6 SE;hwy S	3931	70h R1	Closed,emergency use only.
★ Gabbs Int, 36, RV-ND	4 NW;hwy E	4700	60 R1 L3	
(N) Hawthorne	2 N;lake NNW	4200	60 L	Emerg. lgtg on ½ hr req.
HUBBARD (Reno)	3.4 SE;RR N	4395	57h R2 L5 S4	80,91 oct. Fld lgts prior req.
Lahontan (Fallon)	1.4 SSW;hwy N	4000	24 S4	80 oct.Poles ENE,WSW.Hwy W
Lahontan Flight Strip (Fernley)	15.5 S;hwy N	4279	72h	
Lovelock	1.5 ENE,riv W	3986	31 S2	80 oct.
Manhattan (NC)	6.8 W;hwy W	5850	40	
(A) Reno AAB (A)	10.5 NNW;RR SW	5018	76h	INACTIVE. Mtns sur fld.
Reno Sky Ranch (Sparks)	8.5 NNE;hwy W	4528	52 S4	73,80,91 oct.Flare pots on prior req.
★ Scottys Int,22,RV-ND	9 SSE Gold Pt.	4300	60 L2	
Smith Valley	1 ESE;hwy N	4850	28 S6	73,80 oct.
Sparks Airpark	0.6 N;RR S	4400	33 S6	80,91 oct. Pole line W.
Tonopah	3.2 WNW;RR S	5600	26 S1	73 oct. by truck
(A) Tonopah AAF (A)	8 E;hwy N	5427	87h R1	INACTIVE.
(A) Tonopah B & G Range #5 (A)	44.5 SE	5335	50h	Dry lakes N.
Yerington	1.2 N;RR W	4483	50 S1	73 oct.
→ Tahoe Sky Harbor(Genoa,Nev.)	6 WSW;RR N	6230	42 S1	80 oct.

LAS VEGAS

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT (Love)	347(PN)(116.1)	SBRAZ-VDT,142°,5.5	(4), 116.1
CALIFORNIA			
NEEDLES	400(NJ)(116.1)	BMRLZ-VDT,195°,2.2	(4), 116.1
SILVER LAKE (Int.)	269(RL)(116.1)	SBMRAZ-VDT,132°,1.9	(4), 116.1
NEVADA			
CRYSTAL FM	(-)	FM, 28°, 30	Las Vegas
LAS VEGAS	206(LQ)(116.1) (111.1)	SBMRAZ-VDT	(3)131.7,116.1 only
→ Las Vegas AAF	278(126.18,118.7)	C (ILS), 28°, 1.9	(4), 131.9,118.7,126.18
UTAH			
BRYCE CANYON (Int.)	108.3(BV)(111.1) (116.1)	VAR-VDPT,35°,0.8	3117.5,131.7,116.1, 129.7 cont.(3)req.
ENTERPRISE(Int.)	341(NP)(116.1)	SBMRAZ-VDT,20°, 3.1	(4), 116.1
MILFORD	320(MD)(116.1)	BMRLZ-VT,20°,1	(4), 116.1
ST.GEORGE	108.7(GX)(111.1) (116.1)	VAR-VDP,229°,7.8	3117.5;131.7,116.1, 129.7.(3) on req.
→ GOODSPRINGS, NEV.FM	(- - -)	FM: 203°, 33	Las Vegas

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LAS VEGAS AAF, NEV.	110.3		25°Lag	IM	MM .--- (.66)	OM -- (4.2)
					MMK	OMK

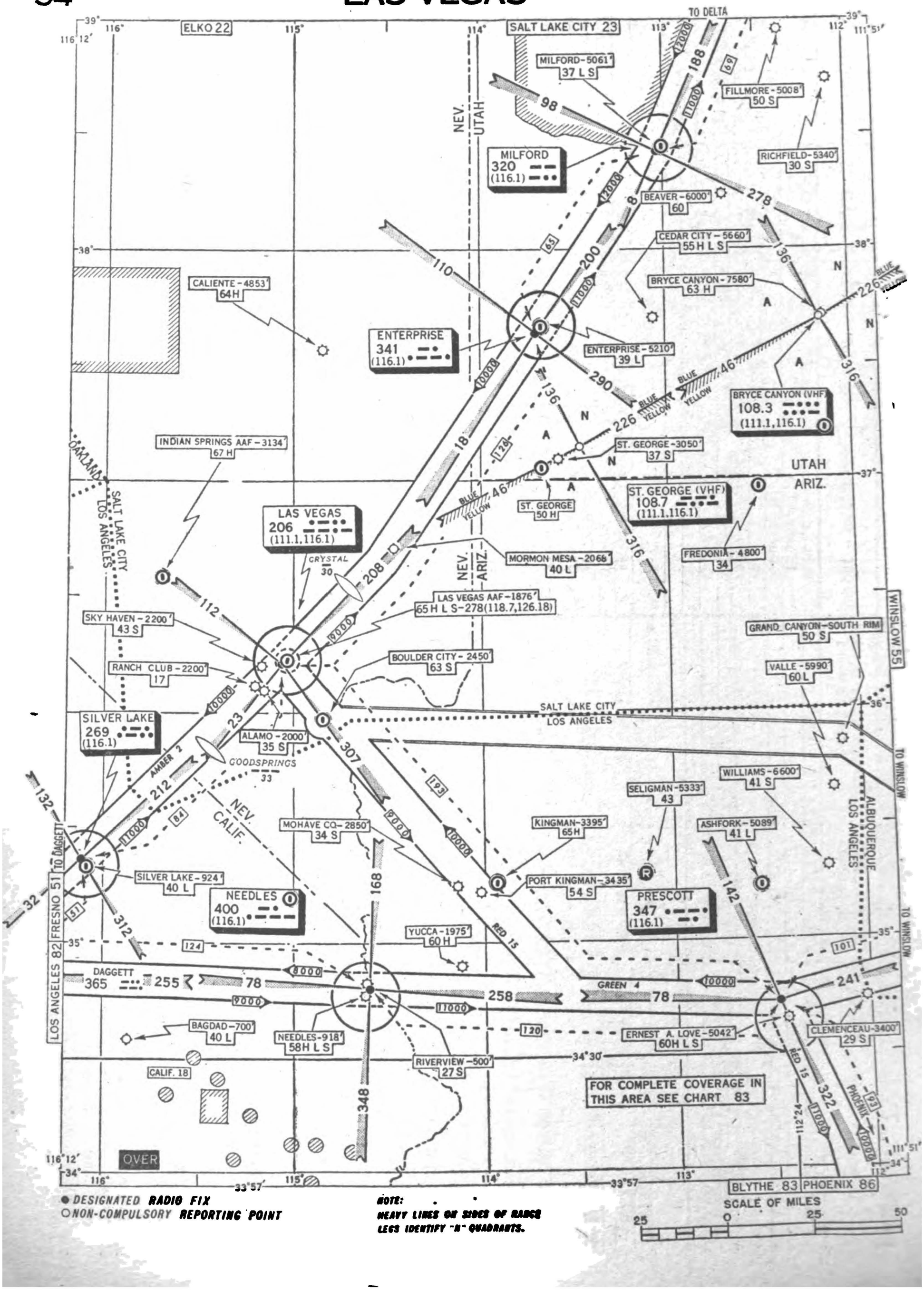
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (4)-3105,4495,6210,3117 5. kcs.; (3)-3105,4495,6210 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

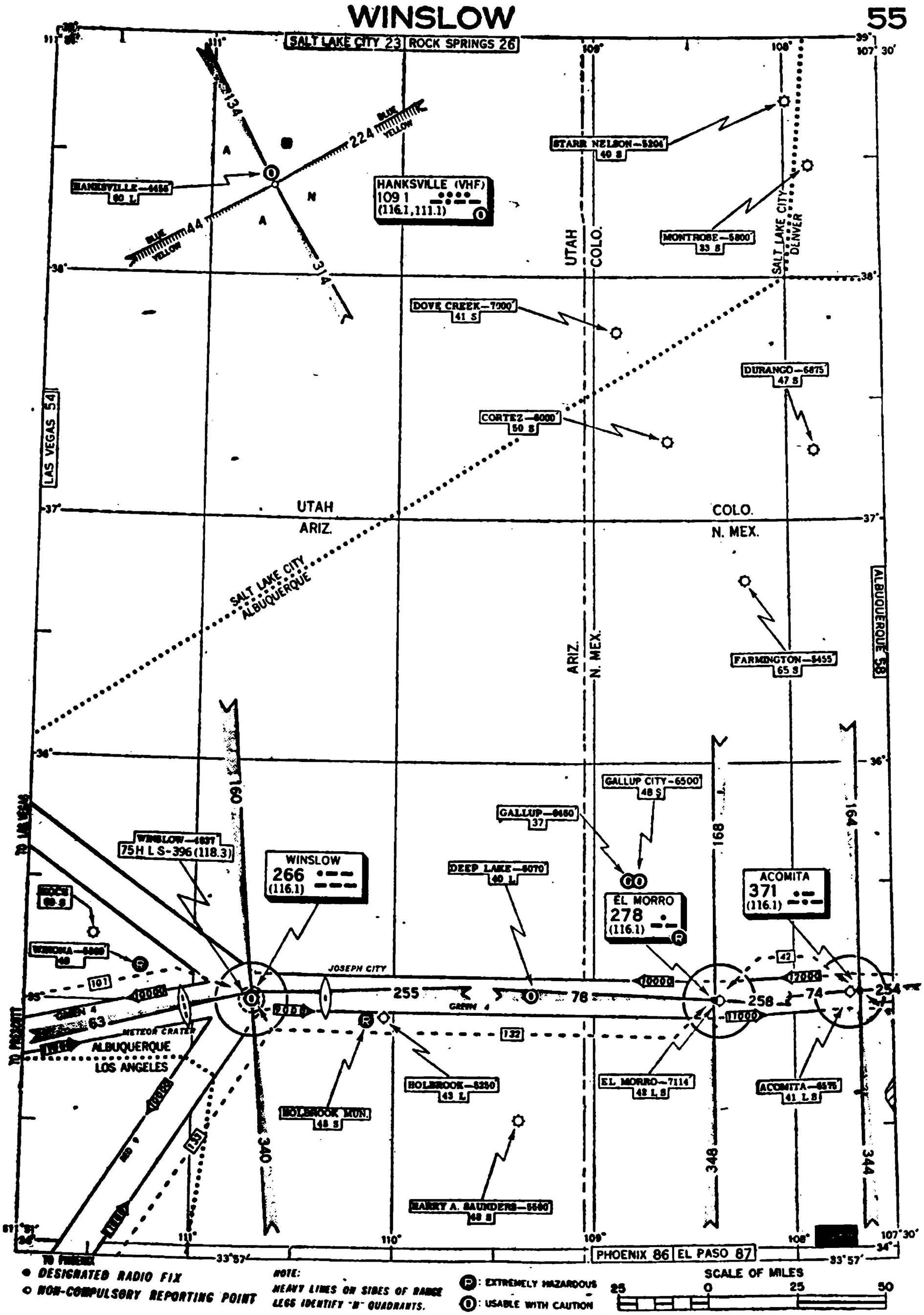
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* Ashfork Int,36A, LA-AQ	4.3 W,RR S	5089	41 L3	
Clemenceau → (Cottonwood)	1.7 SSW,hwy NE	3400	29 L1 S4	73 oct.
Ernest A.Love (Prescott)	8 NE,RR E	5042	60h R1 L5 S6	80,91,100 oct.
Fredonia	1 NE,hwy W	4800	34	
Grand Canyon-South Rim	14.8 S,RR W	6362	50 S2	80 oct.Trees ENE.
Kingman	8.5 NE,hwy NW	3395	65h	
Mohave Co.(Kingman)	6.5 NW,hwy E	2850	34 S1	73 oct.
Port Kingman (Kingman)	3 NE,RR S,E	3435	54 L3 S1	80,91 oct.All lgts prior req.
→ * Seligman Int,32,				(LA-AQ)ABANDONED
Valle	2.3 E RR W	5990	60 L3	Fld lgts prior req.
Verde Valley(NC)	1.8 SE,riv W	3400	30	(Cottonwood)
Williams	4.3 N,RR E	6600	41 S6	80 oct.Mts SW.
Yucca	1.5 NE,RR W	1975	60h	
CALIFORNIA				
* Bagdad Int,16,LA-AQ	1 S,RR N	700	40 L3	
Needles	5.5 S,hwy E	918	58h R1 L3	
Riverview(Needles)	1.4 S,riv N	500	27 S1	80,91 oct.Trees NNE
* Silver Lake Int,18, LA-SL	2.5 SSE,RR E	924	40 R1 L3	Rnwy data unverif.
NEVADA				
Alamo(Las Vegas)	5.5 SSW,RR SW	2000	35 S4	73,80,91 oct.
(N) BOULDER CITY	1.8 SW,RR W	2450	63 L1 S4	73,80 oct,by truck;91 oct for airlines.
Caliente Flgt Strip	19 W,hwy N	4853	64h	
(A) Indian Springs(A)	2 WNW	3134	67h	INACTIVE.
(A) Las Vegas AAF(A)	7.8 NE,hwy NW	1876	65h R3 L5 S6	100 oct. No sto.
* Mormon Mesa Int, 31B,LA-SL	6 ENE Glendale	2068	40 L3	
Pahranagat(Alamo)	0.7 W,hwy E	4300	26	(NC)
Ranch Club(Las Vegas)	5.5 SW,RR E	2200	17	Mts WSW,ENE,E.
Searchlight Landing Strip (NC)	10.8 SSE,hwy E	2536	40	
Sky Haven	3.3 NW,hwy W	2200	43 S4	80,91 oct.(Las Vegas)
UTAH				
Beaver	3.2 SSW,hwy E	6000	60	
* Bryce Canyon Int, 45, LA-DV	5 N,hwy S	7580	63 L3 S2	No fuel.
Cedar City	2.3 NW,hwy W	5660	55h L5 S6	80,91 oct.
* Enterprise Int,39	8 NNE,hwy N	5210	39 R1 L3	LA-SL
Fillmore	2 WSW,hwy SE	5008	50 S2	73 oct.
Milford,45,LA-SL	2.3 NNW,RR E	5061	37 R1 L3 S1	80 oct.
Richfield	1.8 SSW,RR E	5340	30 S4	80 oct.
St.George	1.5 SSW,riv SSE	3050	37 L2 S4	80 oct.Fld lgts & svcg prior req.
* St.George Int,36, LA-DV	6 SE		50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) NC-(not charted). → NEW OR REVISED DATA

LAS VEGAS


ELKO 22
SALT LAKE CITY 23
TO DELTA
NEV.
UTAH
MILFORD - 5061'
37 L S
MILFORD
320
(116.1)
FILLMORE - 5008'
50 S
RICHFIELD - 5340'
30 S
BEAVER - 6000'
60
CEDAR CITY - 5660'
55 H L S
BRYCE CANYON - 7580'
63 H
CALIENTE - 4853'
64 H
ENTERPRISE
341
(116.1)
ENTERPRISE - 5210'
39 L
BRYCE CANYON (VHF)
108.3
(111.1,116.1)
INDIAN SPRINGS AAF - 3134'
67 H
ST. GEORGE - 3050'
37 S
UTAH
ARIZ.
ST. GEORGE (VHF)
108.7
(111.1,116.1)
ST. GEORGE
50 H
LAS VEGAS
206
(111.1,116.1)
CRYSTAL
30
MORMON MESA - 2068'
40 L
FREDONIA - 4800'
34
LAS VEGAS AAF - 1876'
65 H L S - 278 (118.7,126.18)
SKY HAVEN - 2200'
43 S
GRAND CANYON - SOUTH RIM
50 S
BOULDER CITY - 2450'
63 S
RANCH CLUB - 2200'
17
VALLE - 5990'
60 L
SILVER LAKE
269
(116.1)
ALAMO - 2000'
35 S
GOODSPRINGS
33
SALT LAKE CITY
LOS ANGELES
WILLIAMS - 6600'
41 S
SELIGMAN - 5333'
43
KINGMAN - 3395'
65 H
ASHFORK - 5089'
41 L
MOHAVE CO - 2850'
34 S
SILVER LAKE - 924'
40 L
PORT KINGMAN - 3435'
54 S
NEEDLES
400
(116.1)
PRESCOTT
347
(116.1)
YUCCA - 1975'
60 H
DAGGETT
365
255
78
258
78
BAGDAD - 700'
40 L
NEEDLES - 918'
58 H L S
RIVERVIEW - 500'
27 S
ERNEST A. LOVE - 5042'
60 H L S
CLEMENCEAU - 3400'
29 S
CALIF. 18
FOR COMPLETE COVERAGE IN THIS AREA SEE CHART 83
OVER
BLYTHE 83
PHOENIX 86
SCALE OF MILES
25 0 25 50
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "N" QUADRANTS.

WINSLOW


SALT LAKE CITY 23
ROCK SPRINGS 26
134
224
BLUE YELLOW
44
314
HANKSVILLE—4485
90 L
HANKSVILLE (VHF)
109 I
(116.1,111.1)
STARR NELSON—5204
40 S
MONTROSE—5800
35 S
SALT LAKE CITY-DENVER
UTAH
COLO.
DOVE CREEK—7000
41 S
DURANGO—6875
47 S
CORTEZ—6000
50 S
LAS VEGAS 54
UTAH
ARIZ.
COLO.
N. MEX.
SALT LAKE CITY
ALBUQUERQUE
ALBUQUERQUE 58
FARMINGTON—5455
65 S
ARIZ.
N. MEX.
160
168
164
GALLUP CITY-6500
48 S
GALLUP—6460
37
WINSLOW—4857
75H L S-396 (118.3)
WINSLOW
266
(116.1)
DEEP LAKE—6070
40 L
EL MORRO
278
(116.1)
ACOMITA
371
(116.1)
JOSEPH CITY
101
10000
12000
42
255
78
258
74
254
GREEN 4
63
METEOR CRATER
ALBUQUERQUE
LOS ANGELES
7000
11000
132
HOLBROOK—6250
43 L
HOLBROOK MUN.
48 S
EL MORRO—7114
48 L S
ACOMITA—6575
41 L S
BARRY A. SAUNDERS—5660
48 S
340
348
344
PHOENIX 86
EL PASO 87
33°57'
107°30'
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
25 0 25 50

RADIO

ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JOSEPH CITY FM	(-)	FM, 75°, 20	Winslow
METEOR CRATER FM	(- - -)	FM, 243°,18	Winslow
WINSLOW	266(WO)(116.1)	SBRAZ-VDT	(4), 116.1
Winslow Airport	396 (118.3)	C, 160°, 1.5	(4),118.3,131.9,126.18 (6-18)
NEW MEXICO			
ACOMITA (Int.)	**371(AK)(116.1)**	**BMLZ-VDT,254°,1.9**	**(4), 116.1**
EL MORRO (Int.)	**278(EM)(116.1)**	**BMRLZ-VDT,5°,0.1**	**(4), 116.1**
UTAH			
→ **HANKSVILLE Int.**	109.1(HY)(111.1) (116.1)	VAR-VDP,314°,2.8	Not manned cont. (3) on req,3117.5;116.1, 131.7,129.7

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARIZONA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Cameron (NC)	1.4 NE;hwy W	4200	50	
* Deep Lake Int,54A, LA-AQ	1.5 W;hwy E	6070	40 L3	Poles S.
Holbrook	2.2 NNE;RR SE	5200	48 S4	80 oct.
* " Int,50,LA-AQ	6.6 ENE;hwy N	5250	43 L3	
Koch (Flagstaff)	9.8 NE;hwy S	6587	60 S1	Ltd 80 oct.Hills SW
Saunders, Harry A. (St. Johns)	1.1 NNW,hwy S	5560	48 S2	80 oct.25' poles NE
Window Rock(NC)	0.8 SSW;rd N	6800	52	Bluffs ENE,NNE
* → Winona Int,43A, LA-AQ				ABANDONED
(P) WINSLOW	2 SW;RR N	4937	75h R2 L5 S1	91 oct.
COLORADO				
(P) Cortez	3.1 SW;hwy E	6000	50 S4	80 oct.
Dove Creek	0.6 E;creek W	7000	41 S1	80 oct. Pwr line SSW
(P) Durango	1.5 NE	6875	47 S6	80 oct.
Mancos (NC)	1.4 NNE;RR S	7500	30	
Montrose	1.3 S,RR NE	5800	33 S4	73 oct.
Starr Nelson(Delta)	4 E;road N	5204	40 S4	80 oct.

NEW MEXICO

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
* ★ Acomita Int,63, LA-AQ	7.8 W;hwy N	6575	41 R1 L3 S1	**73,91 oct.in emerg.**
Cubero (NC)	2.4 W;hwy S	6200	30	Pole line S. 11,000' mtns N.
★ El Morro Int,59B, LA-AQ	4.5 WSW;lake NW	7114	42 R1 L3 S1	Ltd 91 **oct. Rough.**
Farmington	1.4 NW on mesa	5455	65 S6	80, 91 oct.
Gallup	4 W;hwy;RR S	6460	37	Poleline SSW
Gallup City	2.6 WSW;RR N	6500	48 S4	80 oct Pole line WSW.
Indian Service (Shiprock) (NC)	1.8 SSW;riv N	5100	19	Pole line NW.
Aztec (NC)	2.2 NW on mesa	5700	28	Emerg only.
UTAH				
* Hanksville Int,54, LA-DV	4 NE	4455	60 L3	
Monument Valley (Goulding Trading Post)	0.5 N hwy E	5284	30	

A-hard surfaced runways, R-radio facilities, L-lighting facilities, S-servicing. (See page X111) (NC) Not charted. → NEW OR REVISED DATA.

ALBUQUERQUE

RADIO

COLORADO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COLORADO SPRINGS (Peterson)	224 (CD)	MRLWZ.166°,3.9	
FOUNTAIN FM	(- - - -)	FM;344°,32.7	Pueblo
LA JUNTA AAF.	281(LH)	SBMRLZ-DT;194°,2.6	(4)
PETERSON FIELD(Colorado Springs	272 (126.18)	CA	(4);116.1,126.18
PUEBLO	302 (PU)	SBRAZ-DT;340°,2	(4)
TRINIDAD	329 (TD)	SBMRAZ-DT;170°,3	(4)

NEW MEXICO

→ ALBUQUERQUE (Kirtland)	230(AB)(116.1)	SBRAZ-VDT;354°,3	(3); 116.1
ANTON CHICO (Int)	219(AC)(116.1)	MHVT	(4); 116.1
CLOVIS (Army)	203 (DCV)	BMRAZ;34°,6.2	(3)
→ Clovis AAF	DECOMMISSIONED		
Clovis AAF	526 (DCV)	HW-DT; 130°,1.6	
JUAN TOMAS FM	(- -)	FM; 71°, 18	Albuquerque
KIRTLAND FIELD (Albuquerque)	396 (126.18)(118.7)	AC	(4);126.18,118.7,131.9
LAS VEGAS	359(VH)(116.1)	SBMRAZ-VDT;80°,3.2	(4);116.1
MAXWELL FM	(- -)	FM, 170°, 54	Trinidad, Colo.
OTTO (Int.)	290(OT)(116.1)	BMRLZ-VDT;74°,0.2	(4); 116.1
PERALTA FM	(- - -)	FM, 174°, 11.6	Albuquerque
SANTA FE (New)	206(SJ)(116.1)	MHVT	(4); 116.1
SOCORRO	206(OS)(116.1)	MHVT	(4); 116.1
TUCUMCARI	212(YC)(116.1)	SBMRAZ-VDT;76°,2.2	(4); 116.1

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)
→ CLOVIS AAF, N. MEX.	DECOMMISSIONED			

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

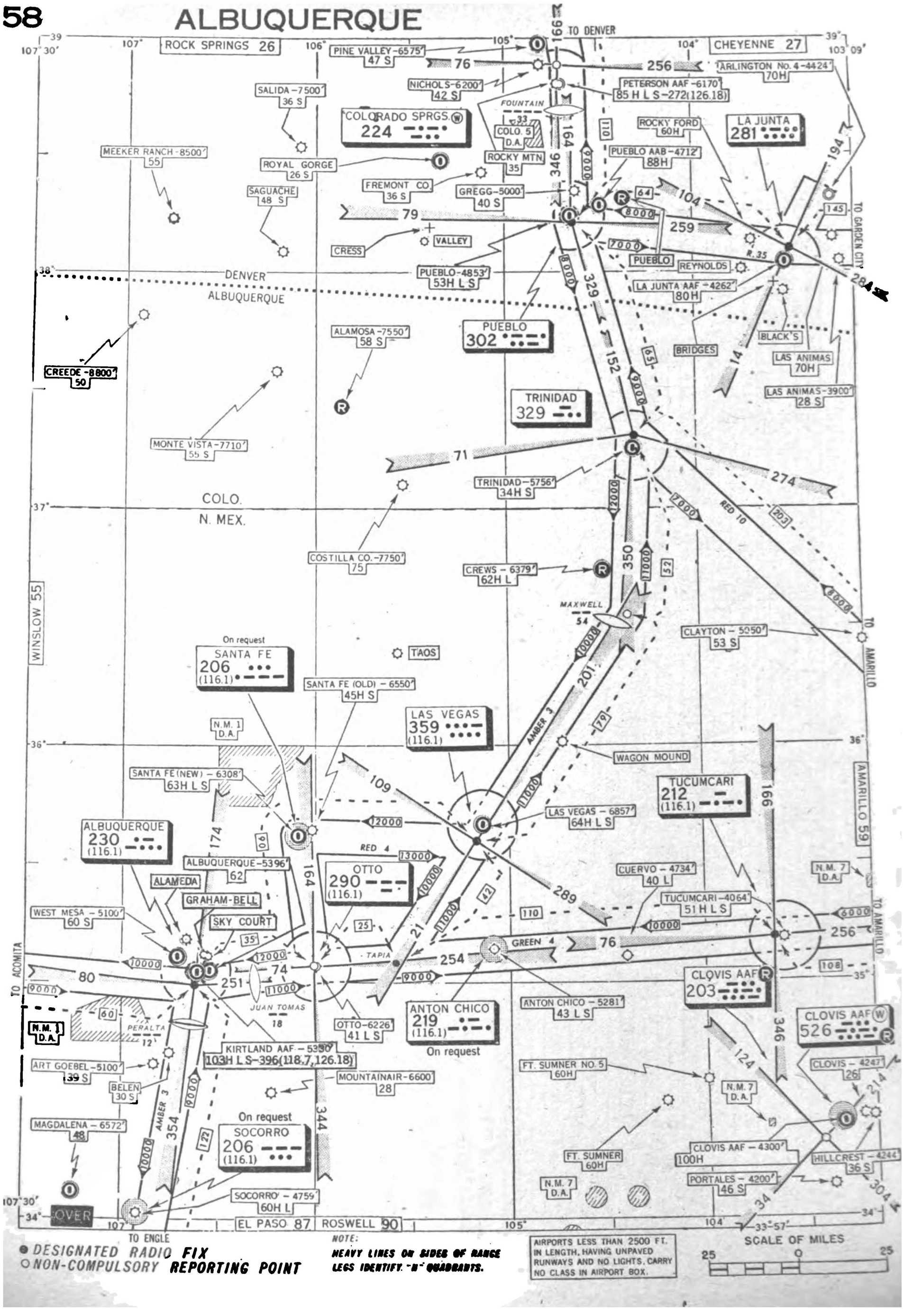
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamosa	2 S; hwy W	7550	58 L3 S4	80 oct. Fld lgts prior req.
(A) Arlington #4(La Junta)(A)	28 NNE	4424	70h	Arlington 3.3 WNW. INACTIVE.
Black's (La Junta)	4.8 S;riv 5 S	4250	21	
Costilla County(Mesita)	4 E; RR W	7750	75	
Creede	2 SSE;hwy NW	8800	50 S2	No fuel. Rough off strips.
Cress (Westcliff)	6 W	8000	30 S1	80 oct. Pole line E.
Fremont Co. (Canon City)	6.9 E; riv S	5350	36 S2	80 oct.
Gregg (Pueblo)	6 N;RR,hwy E	5000	40 S1	80 oct.
(A) La Junta AAF (A)	4.4 NNE;rd W	4262	80h R1	INACTIVE.
La Junta Bridges (La Junta)	3 SW; hwy E		30 S1	80 oct. Data not verified.
Las Animas	1.4 S; RR N	3900	28 S4	80 oct. Poles W.
Las Animas (La Junta)	19 NE	4119	70h	Las Animas 5.9 SSE.
Meeker Ranch (Gunnison)	23 SSE;riv E	8500	55	
Monte Vista	3.5 W; RR N	7710	55 S4	80 oct.
Nichols (Colorado Spgs)	2.8 NNR;hwy W	6200	42 S6	80,91 oct. Pole line SE,NE,N.
Ordway (NC)	0.9 S; RR N	4300	40	NOT MAINTAINED.
(A) PETERSON (Colorado Spgs)	6.3 E; hwy N	6170	85h R2 L5 S6	73,91,100 oct. No sto. (A)
Pine Valley(ColoradoSpgs)	9.2 N; hwy E	6575	47 S6	80,91 oct. Poles E,W,NNW.
(P) PUEBLO	2.1 SW	4853	53h R1 L5 S6	80,91 oct.
(A) Pueblo AAB (A)	7 NE; RR S	4712	88h	INACTIVE.
Reynolds (Rocky Ford)	3.5 SSW;hwy S	4250	21	Pole line NE
Rocky Ford (La Junta)	13.8 NW	4367	60h	Rocky Ford 6 S.
Rock Mtn.(Colorado Spgs)	6 ESE	6100	35 S2	No fuel.
Royal Gorge(Canon City)	6.4 NW; hwy N	6320	26 S2	80,91 oct. Pole lines N.
Saguache	2 W; hwy NE	7700	48 S1	80 oct.
Salida	4 W; RR S	7500	36 S2	80 oct.
Trinidad	10.5 ENE;hwy E	5756	34h R1 L1 S1	80 oct. Use rnwys only.
→ Valley (Silver Cliff)	0.7 ESE;hwy W	8000	40	

NEW MEXICO

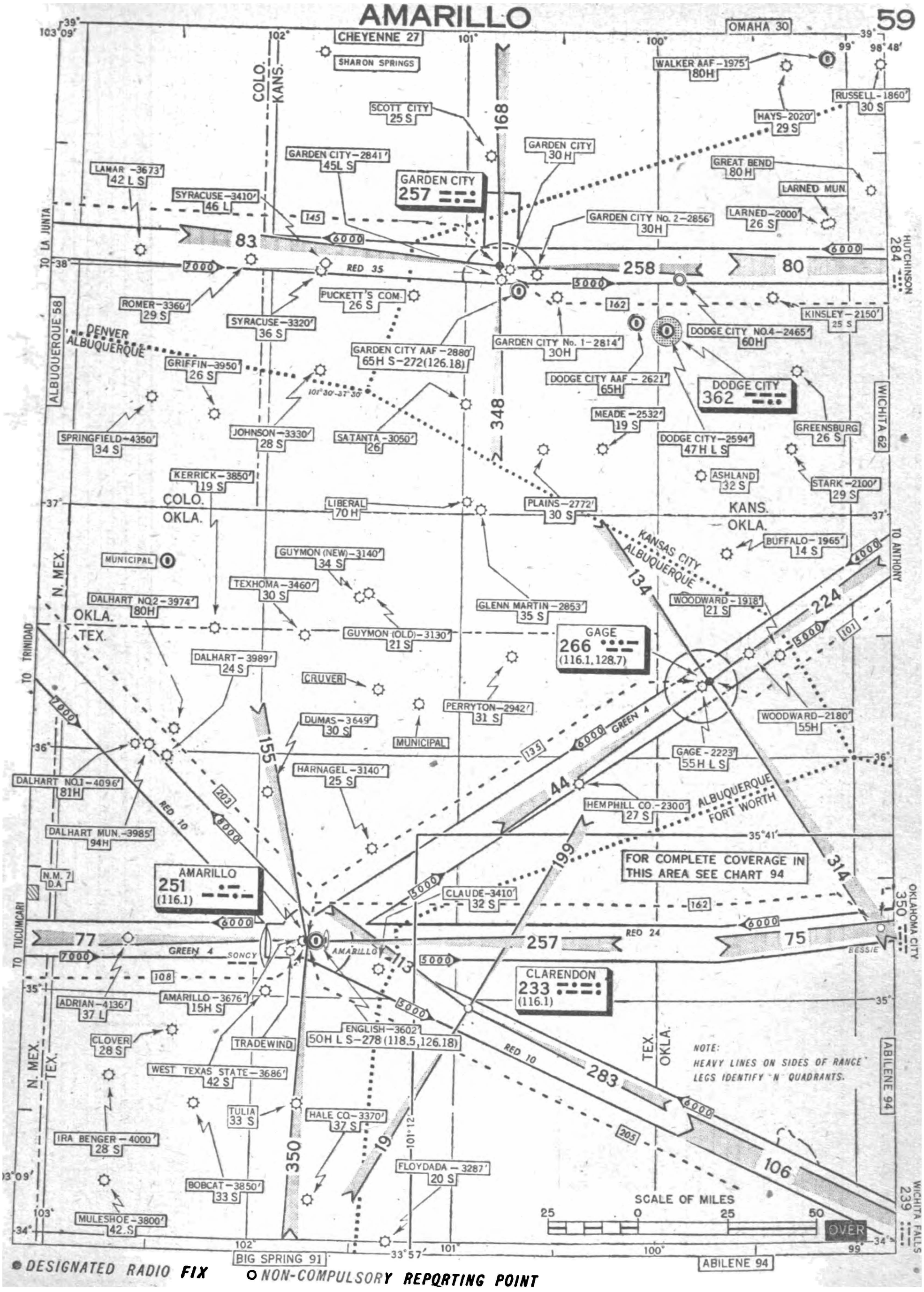
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alameda (Albuquerque)	7.4 N; RR E	5400	37	
Albuquerque	6.3 ESE;hwy N	5429	62	RFC surplus acft fld.
★ Anton Chico Int,78A,LA-AQ	4.5 SE; hwy E	5281	43 R1 L3 S1	91 oct.
Art Goebel (Belen)	3.2 W; RR E	5100	39 S1	Ltd 73 oct.
Belen Air Strip	2.7 N; RR E	5000	30 S1	73 oct.
Clayton	1.5 E; RR S	5050	53 S2	73 oct.
Clovis	0.8 NW;RR S	4247	26	
→ A) Clovis AAF (A)	6.5 W; RR N	4300	100h R1	CLOSED.
P) Crews,42,EO-PU (Raton)	11.5 SSW;hwy W	6379	62h L2	
★ Cuervo Int,81B,LA-AQ	5 N	4734	40 L3	Poles W, lgtd.
Cutter-Carr #2 (Albuquerque)	3.6 NE; RR W	5120	46	Pole line ENE. (NC)
Eagle Nest Lndg Strip(NC)	1 NE	8450	40	11,000' mts NE. Use in emergency.
Ft. Sumner	1.5 NNE;RR S	4166	60h	
" " #5	16 ENE	4830	60h	
Graham-Bell(Albuquerque)	4.5 ENE	5400	27 S6	73,91 oct.
Hillcrest (Clovis)	2.1 E; RR S	4244	36 S4	73 oct. No sto. Pole line S.
Holbrook's (Cuervo)(NC)	0.8 NE; RR S	4810	19	300' mt. S
A) KIRTLAND (Albuquerque)(A)	3.8 SSE; rd N	5330	103h R2 L6 S6	73,91,100 oct. JP-1. No sto.
LAS VEGAS	6 NE; RR W	6857	64h R1 L5 S6	80,91 oct.
Magdalena	0.8 N; RR S	6572	48 S1	Ltd 73 oct. Pole line SW.
Maxwell (NC)	1.7 N; hwy E	6000	36	
Mountainair	1.1 NNE;RR S	6600	28	Pole line N.
★ Otto Int,74,LA-AQ	5.8 N Moriarty	6226	41 R1 L3 S1	Ltd 80,91 oct.
Portales	4.5 SW;RR NNW	4200	46 S1	73 oct.
Roy (NC)	1.5 N; RR W	5900	26	PRIVATE
SANTE FE (new)	9.8 WSW;hwy SE	6308	63h R1 L5 S1	91 oct airlines. Poles E.
" (old)	6.3 SW;hwy E	6550	45h S6	73,80 oct;91 oct in emerg.
Sky Court (Albuquerque)	5.6 ENE;hwy S	5400	30 S6	73 oct. No sto.
Socorro	2.5 S; hwy E	4759	60h R1 L5	Use rnwys only.
Taos	1.7 SSW;hwy W	6956	29	Poles ENE,WSW,WNW.
Tucumcari	7 E;hwy,RR S	4064	51h R1 L5 S6	80,91,100 oct.
Wagon Mound	0.6 WNW;RR E	6500	21	Fence N; mts SE, W.
West Mesa (Albuquerque)	3.8 W; hwy S	5100	60 S6	73,80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

ALBUQUERQUE



AMARILLO



● DESIGNATED RADIO FIX ○ NON-COMPULSORY REPORTING POINT

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DODGE CITY	362 (OD)	MHT	(4)
GARDEN CITY	257 (GK)	SBRAZ-DT	(4)
→ Garden City AAF	272 (126.18)	CA;168°,3.75	(4): 126.18 (8-17)
OKLAHOMA			
GAGE	266 (VM)(116.1)	SBRAZ-VDT,224°,2.1	(4): 116.1
TEXAS			
→ AMARILLO	251 (AQ)(116.1)	SBRAZ-VDT,77°,2.1 to English Fld	(3): 116.1
AMARILLO LFM	(-)	LFM, 77°, 4.9	Amarillo
CLARENDON	233 (CP)(116.1)	BMRL-VDT, 199°,2	(4), 116.1
ENGLISH FIELD (Amarillo)	278 (118.5) (126.18)	AC (ILS)	(4):126.18,118.5,131.9
SONCY FM	(- - -)	FM, 257°, 11.5	Amarillo

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
ENGLISH, TEX.	110.3	335	209° Mag.	IM	MM .--- (.62)	OM -- (4.35)	
					MHR		OHR

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

COLORADO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Griffin (Walsh)	0.7 N,RR S	3950	26 S6	80 oct. Poles S.
Lamar,10,PU-WD	3.7 WSW,RR N	3673	42 L3 S2	80 oct
Romer (Holly)	1.5 SSE,riv N	3360	29 S1	Ltd 80 oct. Pole line SW, NW.
Springfield, Com.	3.8 N,hwy W	4350	34 S1	73 oct. Poles NW, W, SW.
Trading Post (Kit Carson) (NC)	0.8 NW,crk E	4290	40	PRIVATE. Pole line S.

KANSAS

Ashland	1 E, RR S	1940	32 S2	80 oct. Poles S, E.
DODGE CITY	3.5 ENE,RR SE	2594	47h R1 L3 S6	80,91 oct. Fld lgts prior req.
(A) Dodge City AAF (A)	6 NW, RR S	2621	65h	INACTIVE;
(A) Dodge City No. 4 (A)	17.4 NNE	2465	60h	INACTIVE.
GARDEN CITY MUN.	3.3 E,riv S	2841	45 R1 L3 S6	73,80 oct. Lgts prior req.
→ (A) Garden City AAF (A)	9 ESE,riv S	2880	65h R1 S1	73, 100 oct.
Garden City No. 1	19.5 ESE	2814	30h	
Garden City No. 2	13.4 E	2856	30h	
Garden City No. 3	6 ENE	2917	30h	
Glenn Martin(Liberal)	2 ESE,hwy SW	2853	35 S2	80 oct. Pole line SE,SW.
Great Bend	4.5 WSW	1883	80h	
Greensburg	1 ESE,RR N	2230	26 S1	80 oct. Poles N.
→ Hays	1.5 E,RR S	2020	29 L S6	80, 91 oct. Port rnwy lgts.
Johnson	0.5 N,hwy W	3330	28 S6	80 oct. Pole line N,NW,NE,S.
Kinsley	1.5 SSE,riv SE	2150	25 S1	80 oct. Pole line W.
Larned	2 NW,rds E,S	2000	26 S6	80 oct.
Liberal	1.5 WNW	2888	70h	
Meade	3 ESE,hwy N	2532	19 S2	80 oct.Use strips only.Pole line N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

KANSAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Plains	1.3 NNE,hwy N	2772	30 S2	80 oct. Pole line S, E.
Pucketts Com.(Lakin)	3.5 S,riv N,NW	3050	26 S1	Ltd 80 oct. Trees N.
Russell	2.7 ESE,RR NE	1860	30 S4	80 oct.No sto. Poles N,S,NE.
Satanta	1 N,RR S	3050	26 S2	No fuel.
Scott City	1.3 ESE,hwy N	2980	25 S1	73 oct. Pole line N,NE,NW,SW.
Sharon Springs	1.2 NNW,RR S	3500	32 S1	80 oct. Pole line E.
Stark (Coldwater)	0.7 NE,RR SE	2100	29 S2	80 oct. Poles N,S,E,SE,NE.
Syracuse	1 N,riv S	3320	36 S2	80 oct. Pole line S,SE.
★ Syracuse Int,16,PU-WD	3.7 NNE,hwy W	3410	46 L3	
(A) Walker AAF (Hays)(A)	12.5 E,hwy S	1975	80h	INACTIVE.
→ Larned Mun.	1.6 NNE,RR SE	2012	33 S6	73 oct.
OKLAHOMA				
Buffalo	0.6 NW,crk N	1965	14 S2	80 oct.
(P) Gage	1.8 SW,riv N	2223	55h R1 L5 S1	80 oct.
Guymon (new)	3 SW,hwy N	3140	34 S6	73, 80 oct. Pole lines N, E.
Guymon (old)	0.7 S,RR,hwy W	3130	21 S6	73 oct. Pwr line N, S. No sto.
Municipal (Boise City)	3 N,hwy W	4200	33	
Woodward	7.5 W,hwy S,E	2180	55h	
Woodward (mun.)	1.5 SE,hwy W	1918	21 L1 S6	80 oct.
TEXAS				
★ Adrian Int,92B,LA-AQ	4.2 SSE,RR N	4136	37 L3	
Amarillo	6 ENE,RR NW	3676	15h S6	73 oct. Pole line N,S.
Bobcat (Dimmitt)	1.5 E,RR W	3850	33 S2	73 oct.
Claude	1.2 WNW,RR N	3410	32 S1	73 oct. Pole line S,N,NW.
Clover (Hereford)	2.2 NNE,hwy S	3800	28 S2	73 oct. Pole line N,E,SE.
Cruver	0.7 WNW,RR E	3200	40	Pole line W,E,SE,SW.
Dalhart	6.2 SSE,RR E	3980	24 S6	73 oct.
Dalhart mun.	3 8 SSW;RR N	3989	94h	
Dalhart No. 1	9.7 WSW;RR,hwy E	4096	81h L	
Dalhart No. 2	5.5 NE,hwy NW	3974	80h	
Dumas	0.7 S,hwy W	3649	30 L S2	73 oct. Poles N.
(A) English (Amarillo)	9 ENE,RR N	3602	50h R3 L6 S6	100 oct. Poleline N,NW.
Floydada	1.2 NNW,RR N	3287	20 S1	80 oct. Pole line S. RR SW.
Hale Co. (Plainview)	1.6 S,hwy E	3370	37 S6	80,91 oct.
Harnagel (Borger)	2.5 SSW,RR N	3140	25 S2	80 oct. Use strips. RR E.
Hemphill Co.(Canadian)	1.5 SW, riv N	2300	27 S2	Ltd 73 oct.
Ira Benger (Friona)	1.8 NE,RR S	4000	28 S2	73 oct.
Kerrick	1.5 N, RR SW	3850	19 S1	80 oct. Pole line SW.
Muleshoe	1 ENE,hwy N	3800	42 S1	73 oct.
Municipal (Spearman)	0.8 NW,RR SE	3104	30	Pole line.
Perryton	3 ENE,hwy N	2942	31 S2	73 oct. Pole line E.
Texhoma	1 SSW,RR N	3460	30 S2	73,91 oct.Pole line N.
Tulia	1.5 NNW,RR W	3500	33 S1	73 oct. Pole line NE,E,SE.
West Texas State (Canyon)	3 N,hwy E	3686	42 S6	73 oct. 20' Poles SE.
Tradewind (Amarillo)	1.5 SE	3636	30 S6	Data not verified.

WICHITA

RADIO

KANSAS

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS: GUARDED, HRS. OF OPER., REMARKS
ANTHONY	382 (AY)	MHT	(4)
CASSODAY (Int.)	239 (CY)	MHT	(4)
HUTCHINSON	284 (HN)	SBMRLZ-DT;350°,3.4	(4)
Hutchinson NAS	323(142.74 on req)	CN	(3); 142.74 (2 hrs adv notice)
KECHI FM	(- - - -)	FM, 341°,10.6	Wichita
OXFORD FM	(- -)	FM; 167°, 27	Wichita
SALINA	108.3 (NS)	VARW	
SMOKY HILL (Salina)(Army)	344 (DSN)	BMRLZ-DT	(4)
Smoky Hill AAF	396(116.1)(126.18)	CA(ILS);170°,5.05	(4); 116.1,126.18
TOWANDA FM	(-)	FM, 46°,18.8	Wichita
VIOLA FM	(- - -)	FM, 226°, 24.7	Wichita
→ WICHITA	332 (WD)	SBRAZ-DT	(3)
Wichita Airport	278(126.18)(118.7)	AC(ILS);167°,0.9	(4);131.9,126.18,118.7

OKLAHOMA

ENID(Army)	209 (DND)	BMRLZ	(3); 126.18
Enid AAF	396 (126.18)	CA; 214°,3.7	(3); 126.18)
PHILLIPS ARPT(Bartlesville)	278	CI	3105 (On req)
PONCA CITY	368(PC)(116.1)	MHVT	(4); 116.1
RED FORK FM	(- - -)	FM, 325°,13.7	Tulsa
SKIATOOK FM	(- - - -)	FM, 298°,17.8	Tulsa
TULSA AIRPORT	278(126.18)(118.5)	AC	(4);142.74,131.9,118.5, 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.HEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
SMOKY HILL AAF, KANSAS	109.9	333.8	123° Mag.	IM (.19)	MM .....(.89)	OM -- (4.20)
					MMK	OMK
WICHITA, KANS.	110.3		2° Mag.	IM .....(.05)	MM	OM -- (5.37)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice, Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs, (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

KANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abilene	1.7 WSW; RR N	1100	29 S6	80 oct. Trees E;pole line SE.
(P) Anthony,24,AQ-KC	3 WNW; hwy S	1339	48 R1 L3 S6	73,91 oct.
Arkansas City	3.5 S; RR W	1067	28 S6	73,91 oct.
→ Arther Airfield (Wichita)	3 SW; RR N	1290	26 L S6	73,91 oct.No sto.Portlgts.
Baird (Arkansas City)	4 W; hwy S	1100	17 S2	73 oct.Poleline S,SW.Poles S
Beech (Wichita)	6 E; hwy N	1378	46h	Factory use only.
Caldwell	1.2 E; RR W	1140	21 S2	73 oct. Poles E, S
Cannon Ball (Wichita)	6.5 WSW;hwy N	1300	24 S6	80 oct. No sto.Pole line N.
★ Cassoday Int,34,AQ-KC	1 SSE; hwy W	1460	32 R1 L3	Twrs S.
Cessna Aircraft (Wichita)	4.5 SE; hwy W	1369	53 S1	80 oct.
Clothier (Cedar Point)	4 SSW;creek E	1320	20 S2	73 oct.
Culver (Wichita)	4 N; hwy W	1320	15h	
Derby	1 NNE; RR W	1305	24 S1	73 oct. Poles N.
El Dorado	3.6 SE; hwy W	1400	25 S6	80 oct. Soft, wet weather.
Ellinwood	1.5 NW; RR S	1790	26 S1	73 oct. Poles N.
Emporia	5.4 S; hwy E	1200	26 S6	80 oct. Poles E,SE,NE.
Eureka	3.2 E; RR N	1100	21	Pole line S.
Frasier (El Dorado)	2.5 S; riv W	1300	25 S6	80 oct. Poles E, NE.
Giffin-Orton (Hoisington)	1.3 NE; hwy S	1870	25 S2	80 oct. Poles S.
Great Bend Airpark	1.6 NNE; RR W	1850	26 S2	80 oct. Poles W.
Herington	1.5 SE; RR W	1450	17 S2	73 oct. Pole line N.
(A) Herington AAF (A)	7.5 ENE	1485	69h	INACTIVE.
Hilltop (Augusta)	2 NE; RR SE	1260	20 S1	73 oct.
Holyrood	0.5 ESE; RR N	1820	17 S1	73 oct. Poles N.
Hutchinson,com	5.5 W; riv NE	1605	20 S4	80 oct.
(P) HUTCHINSON,MUN.	4 ENE; hwy S	1542	70h R1 L5 S6	80,91 oct. Svcg
(N) " NAS (N)	8.9 S;RR NNE	1582	70h R1 L5 S5	91,100 oct.CLOSED. prior req.
→ Ken-Mar (Wichita)	3 ENE; RR N	1375	23 L S6	80 oct.No sto.Port rnwy lgts.
Kingman	1.5 NNW;RR SW	1600	26 S1	73 oct.Trees S,SW. Obsts
Kiowa Flying Serv.(Kiowa)	2.5 WNW; RR S	1375	19 S1	80 oct. Pole line NNW,SSW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page 4111)(NC)-Not charted. → NEW OR REVISED DATA

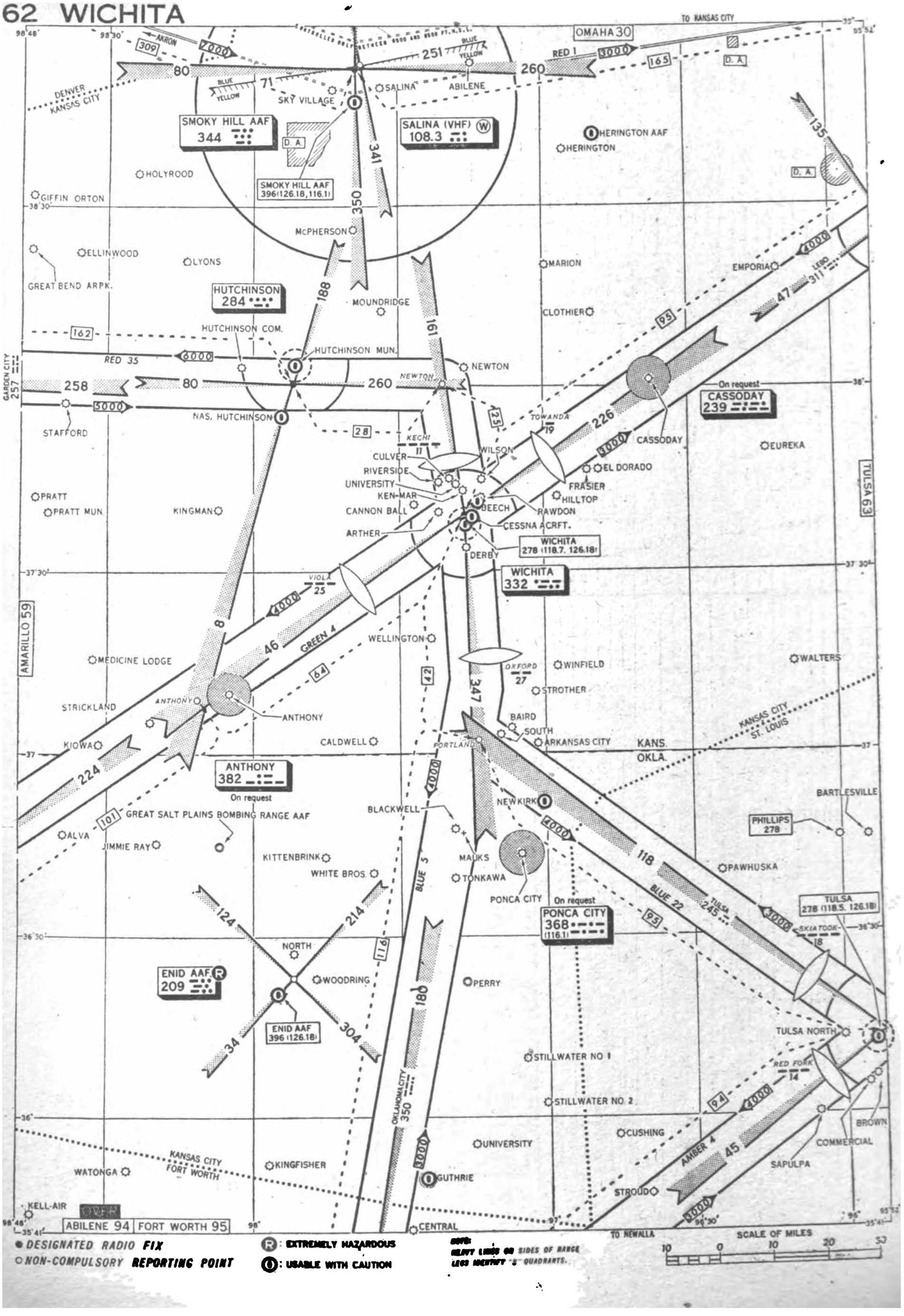
KANSAS

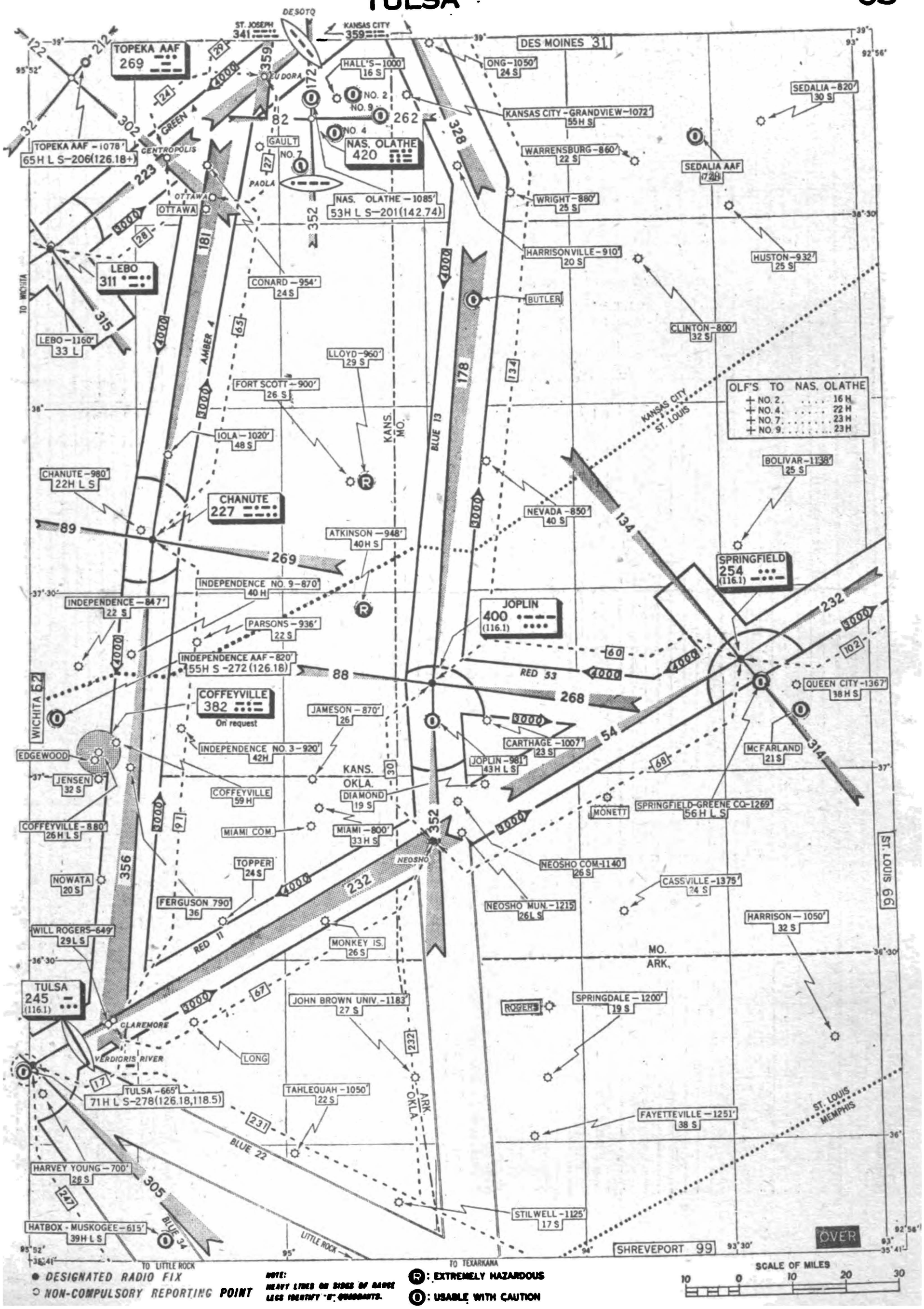
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lyons	1.4 W; hwy N	1950	26 S6	80 oct. Pole line N.
McPherson	4 NNE; RR W	1500	26 S6	80 oct. Soft when wet.Poles E.
Marion	1.8 ESE;RR W	1370	36 S2	80 oct. Pole line SE.
Medicine Lodge	2.1 SE; RR S	1520	33 S2	80 oct.
Moundridge	2.2 WNW; RR NE	1485	17 S2	Ltd 80 oct. Poles W.
Newton	4 ENE; rd S	1527	70h S6	80,91 oct.Pole line W,N.
Pratt Mun.	2.5 ENE;hwy S	1916	25 S6	73,80 oct.
Pratt	4 N; hwy E	1960	80h	
→ Rawdon (Wichita)	6.7 E; hwy S	1396	26 L S6	73 oct. Port rnwy lgts.
Riverside (Wichita)	4 NNW; riv E	1310	26 S1	80 oct. Poles sur fld.
Salina	2.5 SE;riv W	1275	26 S6	80,91 oct.
→ Sky Village (Salina)	6.6 WSW;RR SE	1270	20 L S2	80 oct.Port rnwy lgts.Pole line
(A) Smoky Hill AAF(Salina)	4.5 SW; RR E	1289	100hR3 L5 S4	73,91,100 oct. No sto. (A) S.
South (Winfield)	14 SSW	1230	40h	
Stafford	2.6 WSW;RR N	1889	26 S6	80,91 oct. Poles N, S.
Strickland (Hazelton)	2.6 E; RR S	1310	26 S6	73,80 oct. Poles E, N.
(P) Strother (Winfield)	5 SSW;hwy S	1150	58h	
→ University (Wichita)	5 NE; RR N	1350	27 L S6	80,91 oct.Port rnwy lgts.Pole
Walters (Sedan)	8 N; hwy W	1000	26	PRIVATE. line E.
Wellington	3.5 N; RR W	1290	23 S2	80 oct. Pole line W,E,S.
(A) WICHITA	5.3 SE; hwy W	1373	75h R3 L5 S6	80,91,100 oct.50' pole N.
Wilson (Wichita)	7.5 NE;RR N	1410	29 S6	73 oct. No sto.
Winfield	2 E; RR S	1200	22 S2	73 oct.Lgt acft only.Pwr lineN.

OKLAHOMA

Alva	1.4 S; RR N	1320	26 S1	73 oct
Bartlesville	4 E; rd S	720	34 S6	80 oct.
Blackwell	1.7 W; RR N	1000	32 L4 S6	80 oct.
→ Brown (Tulsa)	6 SE	735	31 L S6	80,91 oct.Port rnwy lgts.Pole NW
Central (Edmond)	2.6 NNE;RR W	1211	24 S1	73 oct.
Commercial (Tulsa)	5.4 SSE;hwy N	700	29 S6	73,80,91 oct. Trees SW.
(P) Cushing	2 S; RR E	913	52h L5 S6	73,80 oct.
(A) Enid AAF (A)	4 SSW; RR E	1287	56h R2 L5 S4	73,100 oct.
(A) Great Salt Plains (Jet)	6 NNE;dam 1 N	1200	55h L5	(A)
★ Guthrie Int,21,FV-WD	2 SSE;hwy W	1052	26 L3 S6	80 oct.
Jimmie Ray (Cherokee)	1.5 E; RR SW	1200	26 S1	80 oct. Trees S.
Kell-Air (Thomas)	1.2 SW; RR N	1730	24 S2	80 oct.
Kingfisher	1.3 NW; RR W	1060	24 S6	73 oct.
Kittenbrink (Jefferson)	2 E; RR W	1100	23 S2	80 oct. Trees N.
Newkirk Skypark	2.5 SE; RR SW	1140	32	Pole N, NW.
North (Enid)	3.8 N; RR E	1265	26 S6	80 oct.
→ Pawhuska	3.8 W; RR E	1000	27 L S1	80 oct.Port rnwy lgts. Pole line NE.
(A) Perry (A)	6.6 N; hwy W	1008	52h	
Phillips (Bartlesville)	1.7 WNW;hwy S	750	32h R1 L4 S2	80,91 oct.
PONCA CITY	2.3 NNW;RR S,E	998	36h R1 L4 S6	73,87 oct. Antenna bet twr and
Sapulpa	1.5 ENE;RR W	730	26	Pole line S. hangar, lgtd.
(P) Stillwater #1	3.2 NNW;hwy E	985	50h L3	
" #2	5.6 SSE;hwy W	980	29 S6	73,80 oct.
★ Stroud Int,29A,AQ-LS	3 N; hwy W	883	27 L3	Pole line W lgtd.
Tonkawa	1.6 S;riv NW	1000	25 S1	73 oct. Pole line S, E.
(A,N)TULSA AIRPORT	6.2 NE;RR S	665	71h R2 L5 S6	80-100 oct. NATS,NAFC.
Tulsa North (Tulsa)	4.5 NNW;RR E	700	25 S2	80,87 oct.Poles S,SW,SE.
University (Langston)	1 S; rd N	1025	26	Bldg SE corner.
Watonga	1.2 NW;riv SW	1460	16 S6	80 oct. Poles S.
White Brothers (Lamont)	2 WSW; RR E	1000	25 S1	73 oct.
(P) Woodring (Enid)	5 ESE; RR NW	1159	65h L S2	80 oct. Port rnwy lgts prior req.
Mauks (Blackwell,Okla)	0.5 S	987	26 S1	80 oct.Data unverified by CAA.

62 WICHITA


TO KANSAS CITY
OMAHA 30
AKRON
309
7000
CONTROLLED GULF BETWEEN 8500 AND 8800 FT. M.S.L.
251
BLUE YELLOW
RED 1
3000
260
165
D. A.
80
BLUE YELLOW
71
DENVER KANSAS CITY
SKY VILLAGE
SALINA
ABILENE
SMOKY HILL AAF
344
SALINA (VHF) W
108.3
HERINGTON AAF
HERINGTON
135
HOLYROOD
SMOKY HILL AAF
396 (126.18, 116.1)
341
GIFFIN ORTON
38°30'
350
McPHERSON
ELLINWOOD
LYONS
MARION
EMPORIA
4000
LEMD
311
47
GREAT BEND ARPK.
HUTCHINSON
284
188
MOUNDRIDGE
161
CLOTHIER
95
162
HUTCHINSON COM.
HUTCHINSON MUN.
RED 35
6000
NEWTON
NEWTON
GARDEN CITY
257
258
80
260
On request
38°
CASSODAY
239
5000
NAS, HUTCHINSON
125
TOWANDA
19
226
STAFFORD
28
KECHI
11
CASSODAY
3000
EUREKA
CULVER
WILSON
RIVERSIDE
EL DORADO
UNIVERSITY
FRASIER
KEN-MAR
HILLTOP
PRATT
PRATT MUN.
KINGMAN
CANNON BALL
BEECH
RAWDON
CESSNA ACRFT.
ARTHER
WICHITA
278 (118.7, 126.18)
DERBY
WICHITA
332
37°30'
VIOLA
25
4000
AMARILLO 59
8
WELLINGTON
WALTERS
MEDICINE LODGE
46
GREEN 4
64
42
OXFORD
27
WINFIELD
347
STROTHER
STRICKLAND
ANTHONY
ANTHONY
BAIRD
SOUTH
ARKANSAS CITY
KANS.
OKLA.
KIOWA
37
CALDWELL
PORTLAND
224
ANTHONY
382
On request
4000
BLACKWELL
NEW KIRK
BARTLESVILLE
PHILLIPS
278
101
GREAT SALT PLAINS BOMBING RANGE AAF
ALVA
JIMMIE RAY
KITTENBRINK
MAUKS
118
PAWHUSKA
WHITE BROS.
BLUE 5
TONKAWA
PONCA CITY
On request
PONCA CITY
368
(116.1)
BLUE 22
95
TULSA
245
3000
TULSA
278 (118.5, 126.18)
SKIATOOK
18
124
214
NORTH
36°30'
116
ENID AAF
209
WOODRING
PERRY
180
ENID AAF
396 (126.18)
34
304
TULSA NORTH
OKLAHOMA CITY
350
STILLWATER NO 1
RED FORK
14
94
4000
STILLWATER NO. 2
BROWN
CUSHING
UNIVERSITY
AMBER 4
45
COMMERCIAL
KANSAS CITY
FORT WORTH
KINGFISHER
SAPULPA
WATONGA
3000
GUTHRIE
STROUD
KELL-AIR
OVER
ABILENE 94
FORT WORTH 95
98°
97°
96°30'
95°
CENTRAL
TO NEWALLA
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS INDICATE "R" QUADRANTS.


DESOTO
ST. JOSEPH 341
KANSAS CITY 359
DES MOINES 31
TOPEKA AAF 269
TOPEKA AAF – 1078'
65H L S–206(126.18+)
HALL'S–1000' 16 S
ONG–1050' 24 S
SEDALIA–820' 30 S
KANSAS CITY–GRANDVIEW–1072' 55H S
NO. 2
NO. 9
NO. 4
NO. 7
GAULT
NAS. OLATHE 420
NAS. OLATHE – 1085' 53H L S–201(142.74)
WARRENSBURG–860' 22 S
SEDALIA AAF 72H
WRIGHT–880' 25 S
HARRISONVILLE–910' 20 S
HUSTON–932' 25 S
OTTAWA
PAOLA
LEBO 311
CONARD–954' 24 S
BUTLER
CLINTON–800' 32 S
LEBO–1160' 33 L
LLOYD–960' 29 S
FORT SCOTT–900' 26 S
OLF'S TO NAS. OLATHE
+ NO. 2. . . . . 16 H
+ NO. 4. . . . . 22 H
+ NO. 7. . . . . 23 H
+ NO. 9. . . . . 23 H
IOLA–1020' 48 S
KANS. MO.
BLUE 13
KANSAS CITY ST. LOUIS
BOLIVAR–1138' 25 S
CHANUTE–980' 22H L S
CHANUTE 227
NEVADA–850' 40 S
ATKINSON–948' 40H S
SPRINGFIELD 254 (116.1)
INDEPENDENCE NO. 9–870' 40 H
INDEPENDENCE–847' 22 S
JOPLIN 400 (116.1)
PARSONS–936' 22 S
INDEPENDENCE AAF–820' 55H S–272(126.18)
QUEEN CITY–1367' 38 H S
COFFEYVILLE 382 On request
JAMESON–870' 26
CARTHAGE–1007' 23 S
EDGEWOOD
JENSEN 32 S
INDEPENDENCE NO. 3–920' 42H
JOPLIN–981' 43H L S
McFARLAND 21 S
KANS.
OKLA.
COFFEYVILLE 59 H
DIAMOND 19 S
MONETT
SPRINGFIELD-GREENE CO–1269' 56 H L S
COFFEYVILLE–880' 26H L S
MIAMI COM.
MIAMI–800' 33 H S
NEOSHO
NEOSHO COM–1140' 26 S
TOPPER 24 S
CASSVILLE–1375' 24 S
NOWATA 20 S
FERGUSON 790' 36
NEOSHO MUN.–1215' 26 L S
HARRISON–1050' 32 S
WILL ROGERS–649' 29 L S
MONKEY IS. 26 S
MO.
ARK.
TULSA 245 (116.1)
CLAREMORE
JOHN BROWN UNIV.–1183' 27 S
ROGERS
SPRINGDALE–1200' 19 S
VERDIGRIS RIVER
LONG
TULSA–665' 71H L S–278(126.18,118.5)
TAHLEQUAH–1050' 22 S
ARK.–OKLA.
FAYETTEVILLE–1251' 38 S
ST. LOUIS MEMPHIS
HARVEY YOUNG–700' 26 S
BLUE 22
STILWELL–1125' 17 S
HATBOX - MUSKOGEE–615' 39H L S
BLUE 34
LITTLE ROCK
TO LITTLE ROCK
TO TEXARKANA
SHREVEPORT 99
OVER
SCALE OF MILES
10 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "R" QUADRANTS.
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

RADIO

KANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHANUTE	227 (CZ)	SBRAZ-DT, 304°, 2.5	(4)
COFFEYVILLE	382 (KV	MHT	(4)
DE SOTO FM	(- - -)	FM; 224°, 19.6	Kansas City, Mo.
INDEPENDENCE AAP	272 (126.18)	CA	(3); 126.18 (8-20)
LEBO (Int)	311 (LN)	BMLZ-DT, 336°, 0	(4)
OLATHE (Navy)	420 (NUU)	BMRLZ	
Olathe NAS	201 (142.74)	CN; 352°, 2.9	(3); 142.74 (8-18)(GCA)
PAOLA FM (Navy)	(. - - -)	FM; 172°, 12	Olathe
TOPEKA (Army)	269 (DTO)	BMRAZ	(4)
Topeka AAP	206 (116.1) (126.18)	CA; 320°, 3.4	(3); 116.1, 126.18
	MISSOURI		
JOPLIN	400(JH)(116.1)	BMRLZ-VDT, 172°, 6.2	(4); 116.1
SPRINGFIELD (Greene Co.)	254(SX)(116.1)	SBRAZ-VDT, 134°, 4.3	(4); 116.1
	OKLAHOMA		
➔ TULSA	245(TS)(116.1)	SBRAZ-VDT	(3); 116.1
Tulsa Airport	278 (126.18) (118.5)	AC; 225°, 1	(4); 142.74, 131.9, 118.5, 126.1R
VERDIGRIS RIVER FM	(-)	FM; 54°, 9.6	Tulsa

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs., (4)-3105, 4495, 6210, 3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Berryville (NC)	1.3 WNW;RR E	1150	13	Trees S.Cattle on fld.
Fayetteville	3.8 S;RR W	1251	38 S6	73 oct.
Harrison	4.1 NW;RR S	1050	32 S1	80 oct.
Rogers	2.7 N;RR S	1325	32 S1	80 oct.Pole line SE.
Springdale	0.8 SSE;hwy W	1200	19 S4	80 oct.Pole line NW,SE.
KANSAS				
Atkinson (Pittsburg)	2.5 NW;RR W	948	40h L S6	80 oct. Port rnwy lgts.
Chanute	2 WSW;hwy NW	980	22h R1 L4 S6	80,91 oct.
Coffeyville	5 NNE	743	59h	Use rnwys only.
➔ " mun.	2 NW;riv E	880	26h R1 L3 S6	73,90 oct.Poles NW;hi-line SW.
Conard (Ottawa)	3.8 NNE;RR S	954	24 S1	80 oct.Pole line N;hedge S.
Edgewood (Coffeyville)	2.5 WNW;RR E	745	25 S1	80 oct.Pole line E,S.
Ferguson Flying Field (Coffeyville)	5 E;RR NW	790	36	Poles S.
Fort Scott	4.5 SW;hwy S	900	28 S2	80 oct.
Gardner (NC)	1.4 WSW;hwy S	1070	39	
Gault (Wellsville)	0.8 ESE;RR N	1020	20 S1	80 oct.Trees E
Girard	1.7 WNW;RR E	950	14	Trees E.
Hall's (Olathe)	2.6 SSE;RR W	1000	16 S2	73 oct.Cattle on fld.Pole line N.
Independence	5 N;hwy W	847	22 S4	73,91 oct.Pole line W.
(A) " AAF (A)	5.5 SW;hwy W	820	55h R1 S1	91,100 oct.
" #3	24 ESE	920	42h	
" #9	12.5 NE	870	40h	
(P) Iola	3.2 SSE;rd N	1020	48 S6	73,80 oct.
★ Lebo Int,39,AQ-KC	4 ENE;RR N	1160	33 R1 L3	
Lloyd (Ft. Scott)	3.8 SSW;RR SE	960	29 S2	80 oct.Pole line NE.
Mader (Garnett)(NC)	2 WNW;hwy S	1060	26	
(N) Olathe NAS (N)	5.2 SW;RR W	1085	53h R2 L5 S6	100 oct. NATS
(N) " OLP #2 (N)	5 SE	1090	16h	INACTIVE.4 W of Stanley.
(N) " OLP #4 (N)	10 S	1090	22h	1.3 SE of Springhill.INACTIVE.
(N) " OLP #7 (N)	16 SSW	940	23h	4.3 W of Hillsdale.INACTIVE.
(N) " OLP #9 (N)	11 SE	1070	23h	1 N of Stillwell.INACTIVE.
Ottawa	5.3 S;RR W	975	32	
Parsons	2 NW;RR S	936	22 S2	80 oct.Soft in wet weather.
(A) Topeka AAP (A)	6 S;RR W	1078	65h R2 L5 S6	73,91,100 Oct.JP-1. No sto.
➔ Fredonia Mun.	3 NNE;RR E	880	26 S1	80 oct.
➔ State Line Arpk(Stanley)	3.8 NE;RR E	1000	22 S1	80 oct. Poles E;trees N,W.
MISSOURI				
Bolivar	1.8 WSW;hwy N	1138	25 S2	80 oct.Poles N.
Branson (NC)	4 W;hwy W	1069	21	Trees SW.
➔ Carthage	2 S;hwy E	1007	23 L S4	80 oct.Port rnwy lgts.Poleline W,SW.
Cassville	3.9 S;hwy E	1375	24 S2	80 oct.Trees SW.
Clinton	2 NE;RR SE	800	37 S4	80 oct.Poles SW,S,E,N.
Diamond	2.1 SSW;RR S	1150	19 S2	80 oct.Pole line N,NE,SE.
(P) Grandview (Kansas City)	16.4 S;RR E	1072	55h L5 S2	80,91 oct.Fld lghts prior req.
(P) GREENE CO. (Springfield)	5.5 WNW;RR NE	1269	56h R1 L5 S5	80,91,100 oct. JP-1
Harrisonville	2.1 W;RR N,S	910	20 S1	73 oct. Fld rough.
Huston (Windsor)	4.3 E;hwy N	932	25 S1	80 oct.
JOPLIN	5 NNE;RR N	981	43h R1 L4 S4	80,91 oct.
McFarland (Springfield)	4 SSE;RR S	1310	21 S4	73,80 oct.
Neosho com.	4.8 NNW;hwy W	1140	26 S1	80 oct.Poles SW.
" mun.	2.8 SW;hwy E	1215	26 L3 S2	80 oct.Poles N,antenna E.
(P) Nevada	3 NE;hwy N	850	40 S4	73 oct.Pole line SW,W.
Ong (Kansas City)	9 SE;hwy NE	1050	24 S6	73,80 oct.Pole line N,W.
Queen City (Springfield)	2.1 E;hwy W	1367	38h L3 S4	73-91 oct.Lgts prior req.
Sedalia	6.3 NW;RR S	820	30 S6	80 oct.Poles S.
(A) " AAF (A) (Knobnoster)	2.8 S;hwy N	834	72h	INACTIVE.
Warrensburg	7.3 SSW;hwy E	860	22 S6	80 oct.
Wright (Garden City)	1.4 NNW hwy SW	880	25 S1	80 oct.Pole line S.
Butler	1.5 N		25 S2	80 oct. Data unverified.
Monett	0.5 NE; hwy S	1462	24 S2	80 oct.
OKLAHOMA				
Harvey Young (Tulsa)	8.8 E;hwy N	700	26 S6	80 oct.
Hatbox (Muskogee)	2.7W;fork RRs	615	39h L3 S6	73,80 oct.All lgts prior req.
Jameson (Picher)	4.5 W	870	26	
Jensen (South Coffeyville)	0.5 W;RR S,E	735	32 S4	80 oct.Pole line SE.
John Brown Univ. (Mosley)	3.6 ESE;hwy S	1183	27 S4	80 oct.
Long (Pryor)	2 NNE;RR W	650	16 S2	80 oct.Pole line SW.
Miami	2.2 NNW;RR E	800	33h L4 S2	80,91 oct.
Monkey Island (Afton)	7.8 SE;RR NW	750	26 S1	80 oct. Pole line W.
Nowata	1.6 NNE;RR W	600	20 S1	80 oct.
Stilwell	1.4 N;RR W	1125	17 S2	80 oct.
Tahlequah	4.3 N;rd E	1050	22 S4	80 oct.
Topper (Vinita)	3.9 SW;RR ESE	800	24 S1	73 oct.
(A,N) TULSA AIRPORT	6.2 NE; RR S	665	71h R2 L5 S6	80-100 oct. NATS,NAFC.
➔ Will Rogers,36, AQ-LS (Claremore)	1.5 NE; RR W	649	29 L3 S6	73 oct.

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. ➔ NEW OR REVISED DATA

ST. LOUIS

RADIO

ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
WALNUT RIDGE	362 (DWR)	MRLWZ,174°,5	

MISSOURI

COLUMBIA	379 (CA)	SBRAZ-DT,89°,3.9	(4)
NEW FLORENCE (Int.)	385 (ST)	MHT	(4)
→ ST. LOUIS(Lambert)	209 (LS)	SBRAZ-DTX;256°.2.2	(3)
ST. PETERS FM	(- - - -)	FM, 273°, 14.2	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis
VICHY	344(OM)(116.1)	BMRLZ-VDT,310°, 2.7	(4), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT - CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Batesville(Desha)	1 SE, hwy E	400	20 S1	73 oct.Pole line NE.
Biggers (NC)	2 ESE,RR NW	290	45	
Fleeman(Manila)	0.8 S,RR N	240	32 S2	80 oct.Po. line N,NE.
John's Air Park (Flippin)	0.3 NNW,RR S	620	11 S1	80 oct.Trees N.
(P) Jonesboro	3.5 ESE;RR N,SW	264	44h S6	80,91 oct.Use rnwys
Manila (Blytheville)	13.5 W,lake E	240	75	
Milltown(Newport)	13 NE	244	45h	
Walcott #3 (Walnut Ridge)	14 ESE	285	45h	1.5 W of Walcott
Walnut Ridge	4 NE,RR SE	275	50h	

ILLINOIS

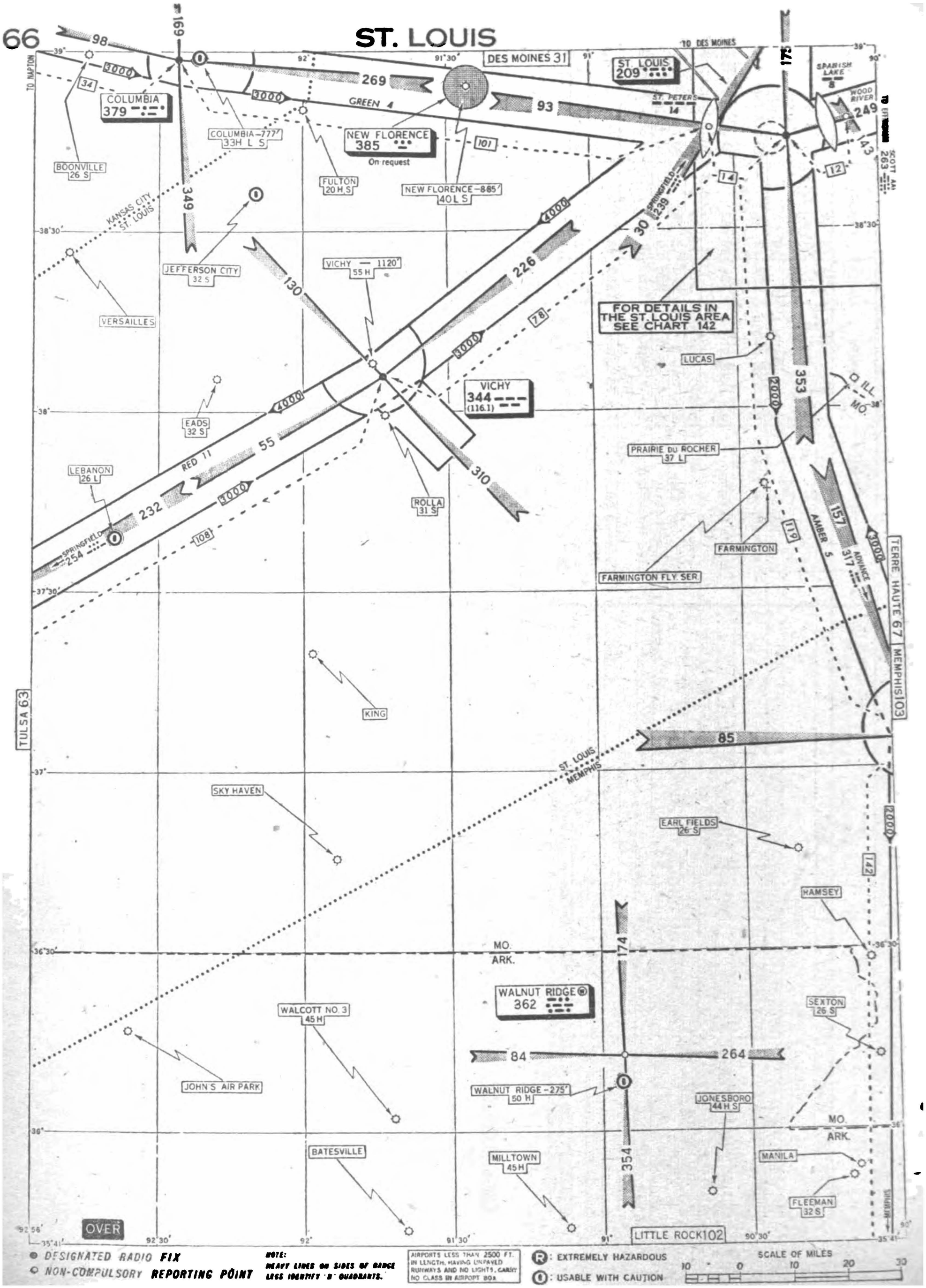
* Prairie du Rocher Int,55, NO-LS	0.5 S,RR NE	390	37 L3	Trees S, N.

MISSOURI

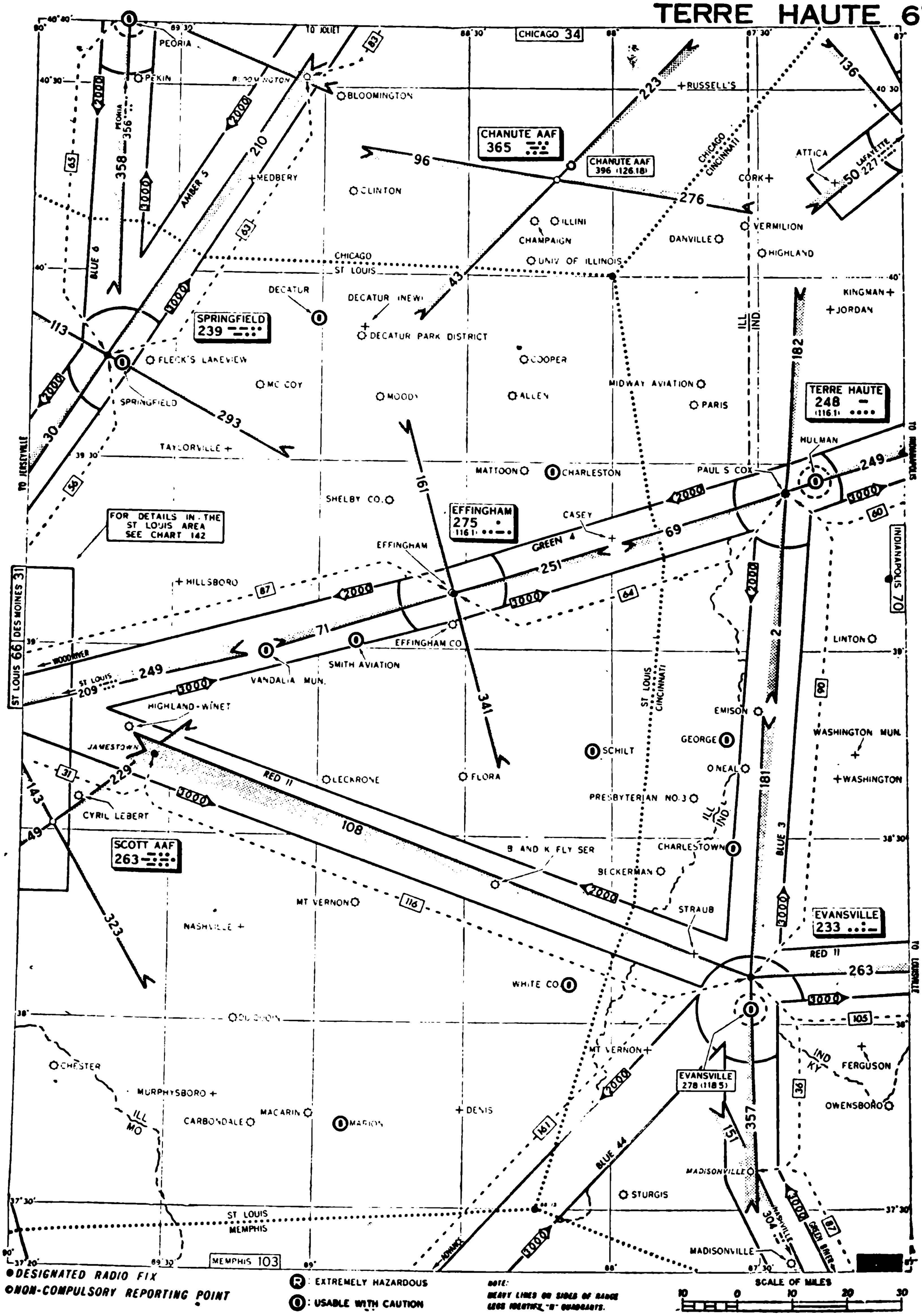
AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Boonville	1.5 NNW,riv S	602	16 S4	80 oct.Obsts sur fld.
Columbia	2.4 NW,hwy S	777	33h R1 L3 S5	80, 91 oct.
Eads (Iberia)	1.1 W, hwy NE	960	32 S2	80, 91 oct.
Farmington	1 ESE,hwy N,E		35 S6	80 oct.Data not verif.
Farmington Flying Service	0.8 NNE,hwy S	920	17 S4	73 oct.Poles NW.
Fields (Poplar Bluff)	3.8 ENE,hwy S	325	26 S2	73 oct.Pwr line S.
Fulton	3 WSW,hwy SE	875	20h S2	80 oct.
Jefferson City	2 N, hwy S	550	32 S6	80 oct. No sto.
Kennett (NC)	1.3 E,RR W	260	26	30' poles N.
King (Houston)	0.8 WNW,hwy ESE	1180	15 S1	80 oct. Poles S
* Lebanon Int,54B, AQ-LS	2.5 SSE,hwy E	1380	26 L3	
Lucas (Festus)	1.7 S,RR W	425	16 S2	73 oct.
Mel Adkins (Gravois Mills)(NC)	4.2 SSE,hwy W	950	19,	
* New Florence Int, → 17, KC-LS	1 SSE,hwy N	885	40 R1 L3 S1	80 oct.
Ramsey (Campbell)	1.6 SW,RR NW	295	14 S2	Ltd 73 oct.Trees NNE
→ Rolla	3.5 NE,rd S	1201	31 L S6	80,91-oct.Port rnwy lgts.
Sexton (Kennett)	2.8 SW,hwy E	263	26 S2	80 oct.
Sky Haven (West Plains)	2.4 NW;RR E	1049	22	
Versailles	1.7 ENE,RR N	1050	20 S2	80 oct.Pwrline N,NE, NW.
Vichy	1.5 NNW,hwy SW	1120	55h R1	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X I I) (NC)-Not charted. → NEW OR REVISED DATA

ST. LOUIS


TO NAPTON
98
169
DES MOINES 31
TO DES MOINES
ST. LOUIS 209
SPANISH LAKE
WOOD RIVER 249
269
GREEN 4
93
ST. PETERS 14
COLUMBIA 379
COLUMBIA—777'
33H L S
NEW FLORENCE 385
On request
BOONVILLE 26 S
FULTON 20 H S
NEW FLORENCE—885'
40 L S
101
SPRINGFIELD 239
SCOTT AFB 263
KANSAS CITY
ST. LOUIS
349
JEFFERSON CITY 32 S
VICHY — 1120'
55 H
130
226
4000
30
FOR DETAILS IN THE ST. LOUIS AREA SEE CHART 142
LUCAS
VERSAILLES
VICHY 344 (116.1)
EADS 32 S
RED 11
55
232
LEBANON 26 L
ROLLA 31 S
310
SPRINGFIELD 254
108
PRAIRIE DU ROCHER 37 L
353
ILL.
MO.
FARMINGTON
FARMINGTON FLY. SER.
157
AMBER 5
ADVANCE 317
119
TERRE HAUTE 67
MEMPHIS 103
TULSA 63
KING
85
ST. LOUIS
MEMPHIS
SKY HAVEN
EARL FIELDS 26 S
HAMSEY
174
MO.
ARK.
WALNUT RIDGE 362
WALCOTT NO. 3 45 H
SEXTON 26 S
84
264
JOHN'S AIR PARK
WALNUT RIDGE—275'
50 H
JONESBORO 44 H S
354
MILLTOWN 45 H
BATESVILLE
MANILA
FLEEMAN 32 S
LITTLE ROCK 102
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
R: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

TERRE HAUTE 67



RADIO

ILLINOIS

LOCATION	FREQ., IDENT	STA CLASS, BEAR & DIST	FREQS GUARDED, HRS OF OPER., REMARKS
CHANUTE (Rantoul)(Army)	365 (DNU)	SBMRAZ	(3), 126.18
Chanute Field	396 (126.18)	CA, 43°, 3.3	(3), 126.18
EFFINGHAM	275 (EF)(116.1)	BMRLZ-VDT,341°,0-Intermediate	(4), 116.1
SCOTT (Belleville)(Army)	263 (DCD)	SBMRAPZ-DT,49°,1.8	(4)
SPRINGFIELD	239 (ZD)	SBMRAZ-DT,113°,2.3	(4)

INDIANA

EVANSVILLE	233 (EV)	SBRAZ-DT	(3)
Evansville Airport (old)	278 (118.5)	C, 177°, 5.5	(4):126.18.118.5.131.9
TERRE HAUTE	248 (TH)(116.1)	BMRLZ-VDT, 182° 0 Paul Cox	(4) 116.1

S-Simultaneous Range and Voice W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105.4495.6210 kcs
(4)-3105.4495.6210 3117.5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Allen (Arcola)	2 W,RR N,E	665	20 S6	80 oct.Pole line N, E.
B & K (Fairfield)	1.4 WSW,RR S	500	21 S2	80 oct. Pole line S
Beckerman (Mt.Carmel)	4 W,RR S	424	23 S1	80 oct. Pole line N.
(P) Bloomington	3 E,RR N	875	31 S6	80 oct. Pole line N.
Carbondale	0.1 E,lake 2 E	450	20 S4	80 oct. No sto
Champaign	2 NNW,RR SW	753	28 L S4	73 oct.Range lgts.Appchs blocked.
(A) Chanute (Rantoul)(A)	1 SE,RR W	744	63h R2 L5	73,91,100 oct. JP-1.Pole N.
Charleston	1.3 SW,hwy E	690	26 S6	80 oct.Use marked areas.
Clinton Flying Club	5.5 NE	720	13	
Cooper (Tuscola)	1.6 SW,RR E	650	24 S2	80 oct.Poles NW, SE, NE, E
Cyril Lebert(Lebanon)	0.5 SE,hwy N	440	22 S2	80 oct.Poles N, W, S.
Danville	2.4 SSW,hwy W	640	24 S4	80 oct. Appchs blocked by poles
→ Decatur	3.5 E	678	53 S6	80 oct.Strip data unver
Decatur Park District	4 E,RR,hwy S	679	16 S1	80 oct. Pole line N,SW,NW,NE.
Denis (Muddy)	Adj E	400	27 S1	80 oct.Data unverified.
Du Quoin	1.8 W,hwy S	454	26 S2	73 oct. 25' poles S.
Effingham Co. Memorial	3.6 S,hwy W	585	30 S2	80 oct
* Effingham Int,10,L3-II)	2.5 N,RR E	607	26 R1 L3 S1	73 oct. on req.
Fleck's Lakeview (Rochester)	2.8 W,lake W	580	21 S6	80 oct. No sto Poles W
Flora	1.1 WSW,RR N	490	27 S1	80 oct. Trees, poles N
George (Lawrenceville)	4.5 NE,RR S	428	52h	
Highland-Winet(Highland)	3.6 NE,RR S	535	24	Pole line S.
Illini (Urbana)	2 NNE,hwy SE	740	26 S6	80 oct. Trees E.
Leckrone (Salem)	1.9 NW,hwy S	545	39 S6	80,91 oct. Use strips only.
McCoy (Blue Mound)	5 W	660	16 S2	No fuel.
Macarin (Marion)	4.6 WNW,hwy W	470	35 S6	80, 91 oct.
Marion	1.8 ESE,RR S	430	26 S6	73 oct.
Mattoon	4 E,RR N	720	26 S4	80 oct. Poles W.
Medbery (Armington)	1 NE	650	26	Data not verified.
Moody (Dalton City)	2.2 S,hwy W	680	19 S2	80 oct. Trees E.
Murphysboro	3 N,riv SE		20 S1	80 oct. Data not verified.
Paris	3.5NNW:RR,hwy	740	30 S1	80,91 oct.Poles SW,S.W.
Pekin	4 S,bet RRs	505	24 S2	80 oct. Pole line W,N, E.
PEORIA	7.8 WSW,rd E	659	44h R1 L1 S6	80,91 oct. Trees W,bldgs NE
Presbyterian Church No. 3 (St Francisville	4 WNW,hwy E	430	45h	
Russell's (Hoopeston)	6.5 WNW,RR S		13	PRIVATE. Data not verified.

h-hard surfaced runways R-radio facilities L-lighting facilities S-servicing (See page x i i) (NC)-Not charted. → NEW OR REVISED DATA

ILLINOIS

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Shelby County (Shelbyville)	1.9 ESE,RR N	677	21 S1	80 oct
Smith Aviation (St.Elmo)	1.3 SW,RR NW	647	20 L1 S2	80 oct. Poles N, NE.Rnwy data unver
(P) Springfield	3.5 SW,bet RRs	606	31 R1 S6	80,91 oct.Use strips only.
(P) University of Illinois (Champaign)	5.5 SSW,RR E	752	53h S4	80, 91 oct.
Vandalia	4.4 NW	532	39h L2 S2	80 oct.
Vermilion (Danville)	4 E,hwy S	650	21 S2	80 oct. 30' poles S.
White County (Carmi)	1.1 NE, RR S	450	17 S1	80 oct.
→ Mount Vernon	2.5 ENE,RR S	465	37 L S6	80,91oct.Data unver.Temp port lgts.
Taylorville	1 SW		26 S1	80 oct. Data not verified.
Hillsboro	1 NE	630	25 S4	Inf,not verified
Schilt (Olney)	1.5 E;RR S		30 S1	80 oct.Data not verified
Nashville	1 E,lake W		20 S1	80 oct. Info unverified.
Casey	1 NW		26 S2	80 oct. Info unverified

INDIANA

Attica	2 S;hwy W	647	26 S1	80 oct. Data not verified.
Cork (West Lebanon)	4 W		24 S1	80 oct. Obsts NE. Data unverif.
Emison (Oaktown)	3.6 WSW	425	45h	
→ Evansville (new)				ABANDONED.
EVANSVILLE (old)	5 NE; bet RRs	385	60h R2 L5 S4	80, 91 oct. Twr W.
Ferguson (Richland)	0.5 SE		13	Data not verified.
Highland (Perrysville)	2.8 WNW,riv E	585	23 S2	Ltd 73 oct.
(P)HULMAN (Terre Haute)	5 ESE; RR N	585	53h L5	Fld lgts prior req
Jordan (Bloomingdale)	6 N		33 S2	No fuel.Data unverified.
Kingman Flying Service (Kingman)	0.5 E,hwy N	700	26 S4	80 oct. No sto.
Linton	3.3 E, RR S	500	20 S1	Ltd 80 oct. Pole line N.
Mount Vernon	1 E		26 S1	80 oct. Info. unverified.
O'Neal (Vincennes)	1.5 WNW,RR NE	415	28 S6	73,80 oct.NNW appch blocked.
Paul S. Cox (Terre Haute)	3.2 S,riv W	485	27 R1 S4	80, 91 oct. Stacks NE
Straub (Cynthiana)	0.5 NW		13	Info. unverified.
Washington Mun.	4 N		30 S4	80 oct. Info. unverif.
Washington	3 W		21	Info. unver.
Charlestown	5 NE; hwy E		15 S6	80 oct. Info unverified.

NEVADA

Madisonville	6 ENE; hwy SE	420	24 S4	80 oct. Use strips only.
Owensboro	2.5 ENE;RR NW	484	26 S6	73, 91 oct. No sto.
Sturgis	1.5 ESE,hwy SW	371	50h	

MISSOURI

Chester (McBride)	3.8 NW,riv N	372	20h	Allway: 5388 x 4695
→ Midway Aviation(Horace,Ill)	1 E,RR W	650	26 S2	80 oct Poles,bldgs,trees E,N

INDIANAPOLIS

RADIO — INDIANA

LOCATION	FREQ. IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
ADVANCE FM	(- - - -)	FM, 330°, 24	Indianapolis
CEDAR GROVE FM	(- - - -)	FM, 297°, 35	Cincinnati, Ohio
CLAYTON FM	(- - -)	FM, 290°, 11.2	Indianapolis
FREEMAN (Seymour) (Army)	203 (DSR)	MRLWZ	
→ Freeman Field	396 (126.18)	CA; 159°, 11.6	(3); 126.18 (9-17)
Freeman Field (Hfac.)	219 (DSR)	MH	Operates cont.
GREENCASTLE FM	(. - - - -)	FM, 250°, 27	Indianapolis
GREENFIELD FM	(-)	FM, 82°, 31	Indianapolis
→ INDIANAPOLIS	266 (ID)(116.1)	SBRAZ-VDT	(3) 116.1
→ Indianapolis Airport	278(126.18)	AC (ILS); 82°,3.3	(4); 131.9, 126.18, 118.7
LAFAYETTE (Purdue University)	229(LF)	BMRL-DT; 50°,2.4	(4)
MILROY (Int.)	347 (MV)	MHT	(4)
MORGANTOWN FM	(- -)	FM, 177°, 22	Indianapolis

KENTUCKY

BOWMAN FIELD (Louisville)	278 (126.18) (118.3)	AC	(4); 116.1, 131.9, 126.18, 118.3
EASTWOOD FM	(- -)	FM, 89°, 9.4	Louisville
GODMAN (Fort Knox)(Army)	227 (DKX)	BMRLZ	
Godman Field	272 (126.18)	CA; 172°, 3.1	(3); 126.18 (6-24)
→ LOUISVILLE (Bowman)	359 (LV)	SBMRLZ-DTX, 269°, 1.6	(3)
SHEPHERDSVILLE FM	(- - -)	FM, 180°, 18	Louisville
SULPHUR FM	(. - - - -)	FM, 227°, 70	Cincinnati, Ohio
UNION FM	(- - -)	FM, 227°, 24	Cincinnati, Ohio
WARSAW (Int.)	212 (WR)	MHT	(4)

OHIO

→ CINCINNATI (Lunken)	335 (CC)	SBRAZ-DT; 227°,5.2	(3)
→ DAYTON	245 (DY)(116.1)	SBMLZ-VDT	(3); 116.1
Dayton Airport	278 (126.18) (118.9)	AC (ILS);90°,3.3	(4); 131.9,126.18, 118.9
FAIRFIELD FM (Army)	(- - -)	FM, 196°, 9.3	Patterson
LOVELAND FM	(-)	FM, 44°, 8.8	Cincinnati
LUNKEN (Cincinnati)	227 (126.18) (118.7)	AC	(4); 116.1, 131.9, 126.18, 118.7
→ PATTERSON (Fairfield) (Army)	379 (DPK) (116.1)	SBMRAZ-VDT	(4); 116.1
Patterson Field	396 (126.18)	CA (ILS); 32°, 2.96	(4); 126.18 (GCA)
VERONA FM	(- - - -)	FM, 270°, 9.9	Dayton
WRIGHT (Dayton)	260 (126.1)	CA	3105, 4495; 126.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATOR)		
DAYTON, OHIO	110.3	335	55°Mag.	IM ····· (.05)	MM	OM – – (4.4)
				IMK	MMK	OMK
INDIANAPOLIS, INDIANA	109.9	333.8	44°Mag.	IM ····· (.05)	MM ···· (.89)	OM – – (4.3)
				IMK – ···· (.5)	MMK	OMK
PATTERSON, OHIO	109.7	333.5	210°Mag.	IM (.09)	MM ····· (1.5)	OM – – (4.5)
					MMK	OMK

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station.
(3) 3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs
Parenthetical Numbers in the Frequency Column indicate VHF on which Voice is Available.

AIRPORTS — INDIANA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
→ Ace (Anderson)	2 S	875	30 L S4	80 oct. Port rnwy lgts.
Anderson	3.5 SE;RR NE	875	26 S6	80 oct. No sto. Trees E.
Aretz (Lafayette)	4 NE	500	35 S6	80 oct. Info. unverified.
(A) Atterbury AAR(Columbus) (A)	3.5 N;hwy S	651	50h	INACTIVE.
Bargersville	1 N		20	Info. unverified.
Beck (Zionsville)	5 NE;crk W		14 S2	80 oct. Poleline W. Info. unverified.
Bedford	3.5 SE	682	19 S2	Ltd 73 oct. Rnwy data
Black Hawk (Sheridan)	5.3 N;hwy E	600	16 S1	Ltd 73 oct. unver.
(P) Bloomington →	5 WSW;RR SE	840	40 L S2	73,80 oct. Poleline S. Rnwy info. unverified.
Boss-Denien (Salem)	3 WNW;RR N		26 S6	80 oct. Poleline S. Data not verified.
Bringham (Portland)	1.5 E;RR E	1020	20	Poles S;120'tank SW.
Brightwood (Indianapolis)	3.7 NE;rd S		44 S4	80 oct. Data unverif.
Brownsburg	1.5 SSE;RR N	650	20 S1	73 oct. Poleline S.
Bunker Hill	1.8 W;RR N	798	50h	
Bush (Jeffersonville)	3 NE		20 S2	80 oct. Inf. unverified.
Bush (Ramsey)	1.5 WSW;hwy N	580	10 S1	73 oct.
Campus (Bloomington)	1.5 ENE,RR S		25 S1	80 oct. Info. unverif.
Columbus	4.5 SSW	616	45h S4	80 oct. No sto.
Coxey's (Winchester)	1 ESE;hwy N	1088	18 S4	80 oct.
Crawfordsville	4.5 SSW;hwys E, W	850	37 S4	80 oct. No sto. Info. unverified.
East Richmond (Richmond)	3.7 ESE;RR E	1090	20 S6	73 oct.
Elwood	1.8 SSE;hwy NE	850	23 S4	80 oct. Data unverif.
Farmers (Greenfield)	9 NW		26 S2	73 oct. Info. unverif.
Fortville	2.8 E;rd N	740	15 S1	Ltd 73 oct. Trees SSW.
Franklin Fly Field	4 S,riv S	745	22 S2	80 oct. Trees S.
(A) Freeman (Seymour)(A)	2 SW;hwy N	575	55h R2 L5 S6	73, 91, 100 oct. JP-1.
French Lick Sprgs.(NC)	1 SE;RR W	500	27h	
G & C (Anderson)	1 N	875	30	Info. unverified.
Greencastle	8 SE		23 S2	80 oct. Info. unver.
(P) Greenfield, Inc.	1.9 ENE,RR S	910	30 S2	80 oct. Poleline S.
Halsmer (Lafayette)	3 ESE;RR S	595	20 S6	80 oct. Poles SW.
Himes (Ladoga)	4 NW		13	Info. unver.
Hoosier (Indianapolis)	4 WNW	740	26 S5	80 oct. Pole line NE.
Howells (Rushville)	2 SE;hwy SW	985	21 S6	80, 91 oct.
Huffman Air Service (Selma)	0.8 SE; RR N	1000	15 S4	73 oct.
Huntingburg 19, LS-LV	3 S;RR E	500	31 L2 S2	73 oct.
(P) INDIANAPOLIS	8 SW;hwy N	796	53h R3 L6 S6	73,87,91,100 oct. Exper.
Kokomo, mun.	4.7 N	835	40h L5 S2	80 oct. P-line N. lgtg.
Lapel	1 NE		13	Rough. Info. unver.
Lawrenceburg	1 SW		22	Info. unver.
Lebanon	1 S;RR N	825	13 S2	80 oct. Trees SW.
Lizton	1 SE		25	Info. unverified.
Lockwood (Frankfort)	2.5 S;RR W	764	20 S4	80 oct. Ditch W.
Loy (Plainfield)	0.5 NE;RR S		19 S6	73 oct. Data unver.
Madison Commercial	2.2 N;RR W	960	24 S2	80 oct. Poles E.
(A) Madison AAF (A)	6 NNW; RR SW	850	50h	Closed to all acft.
Mapleton (Seymour)	3 E		18 S4	80 oct. No sto. Info. unver.
Martinsville	2 W		10	Info. unver.
→ Marion	3.8 SSW;hwy S	832	24 L S4	73 oct. Poles E; hi-line N.
Mecco (Danville)	0.5 W		13 S2	73 oct. Info. unver.
Mettel (Connersville)	2.4 NNE;RR E	950	29 S1	80 oct.
* Milroy Int,5, CC-CG	5.5 ESE	1034	27 R1 L3	
Moore (Zionsville)	12 NW		14 S1	80 oct. Info. unver.
Muncie	3.5 N;RR SW	950	31h L4 S6	80,91 oct. Lgts prior req. Rnwy info. unver.
New Castle	3.2 E; RR S	1040	23 S6	80 oct. No sto.
→ New Castle Western (New Castle)	2.3 NW;lks SE	1080	26 L S1	73 oct. Port rnwy lgts.
Noblesville	0.5 SE	801	27 S1	80 oct. Poleline S end NW/SE strip. Info. unver
Ockley	1 W		23	Pwrlines N,W; trees E. Info. unver.
Owen (Mooresville)	4 E		31 S1	80 oct. Info. unver.
Purdue University (Lafayette)	2.5 W;RR N	605	35h R1 L3 S6	80 oct. Silo N; stack NE.
Reese (Muncie)	4 E	950	19 S2	80 oct. Info. unver.
Reimer (Lafayette)	2 S		25 S2	80 oct. Info. unver.
Richmond, com.	4 WSW;RR N	1075	42 L1 S2	80 oct.
(P) Richmond, mun.	6 SSE;RR W	1139	55h L5	Contact lgts on req.
Ruzicka (Kokomo)	2.5 S;RR E	800	22 S6	80 oct. Pole E; trees N.
St. Anne #2 (Seymour)	2.3 NN E	750	45h	
Scottsburg	2 W		18	Info unver.
Shank's (Indianapolis)	5 WNW	740	28 S6	80 oct. Info. unver.
Shelbyville	3.1 S;hwy E	850	19	Poleline E.
Silent Brook (Orleans)	5 W;riv SW	650	20 S4	80 oct. Hi-line W,SW
→ Sky Harbor (Indianap's)	7 ENE;hwy S	730	26 L S6	73,80 oct. Pole line E.
Sky Haven (Bedford)	2 SSW;riv S	650	36h S4	80,91 oct. Poleline E,S. Rnwy data not verif.
Steed (Portland)	1.5 NW	1030	20 S2	80 oct. Obsts N end NE-SW stp. Info. unver.
Stiles (Shoals)	1 N	740	22 S2	80 oct. Info. unver.
(A) Stout (Indianapolis)(A)	5.5 WSW	712	45h	INACTIVE.
Templeton (Greensb'g)	3.5 WNW;RR N	915	26 S4	73,80 oct. Pwrline S. No sto.
Vevay	1 E	450	20 S2	73 oct. Tree NE corner Info. unver.
West Side (Marion)	2.5 NW;hwy S	835	26 S1	73 oct. Pole line E.
White Cloud (Greenw'd)	1.6 SW;hwy E	800	25 S4	Fuel. No sto. Info. unver.
Yorktown	1 S		22 S1	80 oct. Obsts E. Info. unver

KENTUCKY

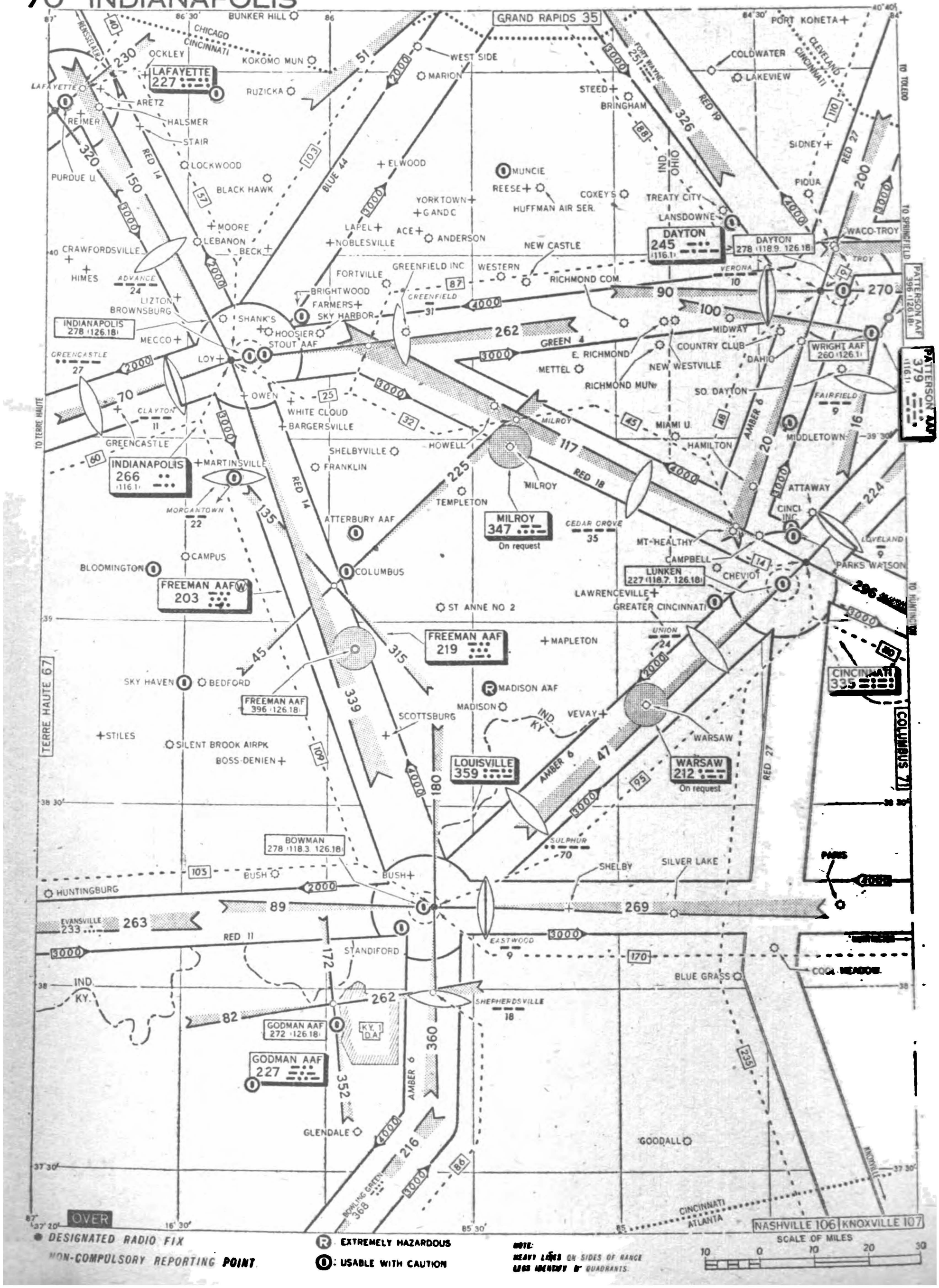
→ Blue Grass (Lexington)	6 W;hwy N	978	40h L5 S4	80,91 oct.
(A) BOWMAN (Louisville)	5.5 ESE;hwy S	546	44h R2 L5 S6	73,91,100 oct.
Cool Meadow (Lexington)	4.8 N;rd W	910	28 S6	80,91 oct. No sto. Pole line SW.
* Glendale Int,75B,	0.5 NE;RR NW	702	26 L3	(DL-LV)
(A) Godman (Ft. Knox)(A)	1 NW;RR E	740	52h R2 L5 S4	73,91,100 oct. No sto.
Goodall (Danville)	4.2 S;RR W,S	990	27 S6	80 oct.
(P) Greater Cincinnati (Covington)	8.2 W,riv NE	869	55h L5 S1	91,80 oct. Svcg days only. Ctc lgts prior req.
Paris	1.2 NNE	635	20 S1	80 oct. Ravines NE,SE.
Shelby (Shelbyville)	2.5 ENE,hwy S	850	20 S2	80 oct. Info. unver.
Silver Lake (Frankfort)	3.2 E;hwy N	750	25 S2	80 oct.
Standiford (Louisville)	4.3 SSE;RR W	480	50h L5	
* Warsaw Int,5A,LV-CV	0.6 SW;riv NW	485	30 P1 L3	

OHIO

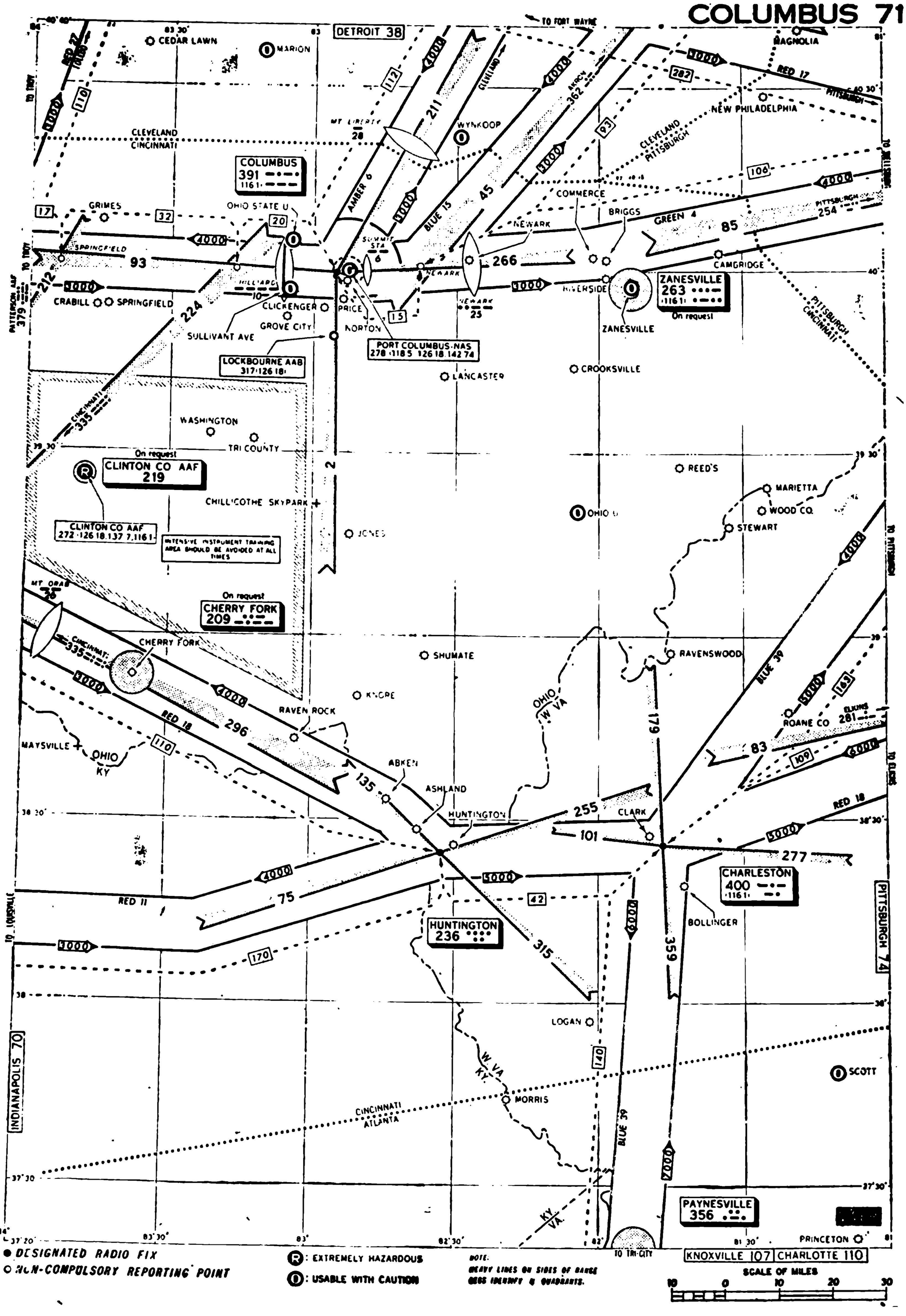
Attaway Air Ranch (Mason)	4.2 S;RR NW	850	23 S4	80 oct. No sto. Pole line E.
Campbell (Cincinnati)	6.2 NNW;RR E	820	24 S1	80 oct. Pole line WSW.
Cheviot (Cincinnati)	9 W	914	18 L1 S1	80 oct.
Cincinnati (Sharonv'l)	2 SE;hwy N	860	37 S6	80 oct.
* Coldwater Int,4,DY-CC	2 NW;crk NW	898	33 L3	
Country Club (Johnsv'l)	2.9 N;RR NE	990	26	Poles N, E.
Dahio (Dayton)	8.5 W;hwy S	925	37 S4	80 oct.
DAYTON	10 N;hwy E	1000	55h R3 L5 S6	73,80,91,100 oct.
Hamilton	2.5 SE;RR SW	615	29 S6	80,91 oct. Poles S, SE. Trees NW.
Happy Landings (Morrow) (NC)	2.4 ESE;RR S	860	26	Area SE unusable.
Harrison (NC)	2 ESE;RR SW	580	18	Pole line S.
Hightman (Lebanon)(NC)	3 E;RR W	880	16	Pole line W; trees W,E.
Lakeview (Montezuma)	1 SW;hwy W	895	24 S2	80 oct. Pole N.
(A) LUNKEN (Cincinnati)	4.3 SE;RR SW	481	41h R2 L5 S6	73,91,100 oct. Bcn. ESE.
(P) Miami University → (Oxford)	2.2 WSW;RR W	1040	40 S6	80 oct. Poles N,NW.
Middletown	1.5 N; riv N	653	31 S4	80 oct.
Midway (Lewisburg)	3.4 WSW;RR E	1090	26 S4	80 oct. Trees W.
Mt. Healthy (Cincinnati)	9.5 NW;hwy E	870	22 S6	80 oct. Poles E; woods W.
New Westville (New Paris)	2.8 S;RR S	1180	21 S1	80 oct. Poles E, NW, SE.
Parks Watson (Cincinnati)	9 NE;RR E	865	25 S6	80 oct.
(A) Patterson (Fairfld)(A)	1.6 WSW	819	78h R3 L6 S4	73,100 oct. JP-1.
Piqua	4 WNW;RR S	1000	19 S2	80 oct. Poles S,SE,SW.
Polk Grove (Vandalia)	3.6 W;riv W	975		UNUSABLE. (NC)
Sidney	1 W;RR S		25 S2	80 oct. Data unver.
South Dayton (Dayton)	5 SSW;RR W	750	32 S6	80 oct. No sto. Hills S.
Treaty City (Greenv'l)	1.5 NNE;hwy W	1060	20 S4	80 oct. Poleline W.
Waco-Troy (Troy)	1.8 SW,RR SE	870	29 S1	80 oct.
(A) Wright (Dayton)(A)	5 ENE;RR NW	800	72h R1 L5 S2	62,73,91,100 oct. JP-1 CLOSED.
Lansdowne (Greenv'l)	2 ESE;RR N		19	Bldgs, hi-line N. Inf. unver.
Port Koneta (Wapakoneta)	2.5 NNE;RR E		26 S1	80 oct. Inf. unver.
→ Stair (Mulberry) Ind.	0.13 NE,hwy S	650	16 S4	80 oct No sto Pole line S Data unver

*-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted). → NEW OR REVISED DATA.

70 INDIANAPOLIS



COLUMBUS 71



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE DOES IDENTIFY 8 QUADRANTS.

RADIO — OHIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CHERRY FORK (Int.)	209 (UY)	MHT	(4)
CLINTON CO. (Wilmington)	272 (126.18) (137.7) (116.1)	CA(ILS)	(3): 126.18,137.7,116.1 (GCA)
Clinton County (Wilmington) (Army)	219	K	0.2 mi. end Rnwy 22, 8-1630, Mon.-Fri.)
→ COLUMBUS (Port Columbus NAS)	391 (CO)(116.1)	SBRAZ-VDT, 86°, 1.9	(3); 116.1
HILLIARD FM	(- - - -)	FM, 273°, 9.8	Columbus
LOCKBOURNE AAB(Columbus)	317 (126.18)	CA (ILS)	(3), 126.18
MT. LIBERTY FM	(-)	FM, 31°, 27.8	Columbus
MT. ORAB FM	(- -)	FM, 116°, 25.5	Cincinnati
NEWARK FM	(. . - -)	FM, 86°, 25	Columbus
PORT COLUMBUS NAS (Columbus)	278 (118.5) (126.18,142.74)	AC	(4), 131.9, 118.5, 126.18, 142.74
SUMMIT STATION LFM	(- -)	LFM, 88°, 5.6	Columbus
ZANESVILLE	263 (VL)(116.1)	MHVT	(4), 116.1
		WEST VIRGINIA	
CHARLESTON	400 (KN)(116.1)	SBMRAZ-VDT	(4), 116.1
HUNTINGTON	236 (HI)	BMRLZ-DT, 75°, 2.4	(4)
PAYNESVILLE	356 (IR)	H	Operated by PCA (6-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOCKBOURNE AAB, OHIO	109.9		3° Mag.	IM (.16)	MM ····· (.85)	OM -- (4.29)
					MMK	OMK
CLINTON CO. AAF, OHIO	109.5	332.6	320° Mag.	IM (.05)	MM	OM
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — KENTUCKY

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Abken (Russell)	2.7 NW,riv N	555	26 S3	80 oct. Data not verified.
Ashland	1 E, RR SE	535	29 S4	80 oct.
Maysville	3.5 NW		26 S2	Fuel. Data not verified.
			OHIO	
Briggs (Zanesville)	6.4 NNE,RR W	780	18 S2	80 oct. Poles S.
Cambridge	2 N, RR W	800	27 L3 S2	73 oct.
Cedar Lawn (Kenton)	2.3 S, RR E	975	18 S2	80 oct. Poles E.
★ Cherry Fork Int,4,CC-WA	0.5 NNW	939	39 R1 L3	
Chillicothe Skypark	1.8 N,RR E	640	30 S4	80,91 oct. Data not verified.
Clickenger (Columbus)	6.2 SSE,RR E	748	26 S2	80 oct. Poles surround fld.
(A) Clinton County AAF (Wilmington)(A)	2 SE,hwy NE	1062	60h R3 L5 S1	73, 91, 100 oct. JP-1. No rng
Commerce (Zanesville)	6.5 N,RR,riv E	800	28 S2	73, 80 oct.
Crabill (Springfield)	2.5 SE,RR E	1040	29 S6	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII(NC)-Not charted. → NEW OR REVISED DATA

OHIO

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Crooksville	2.3 S,RR NW	760	22 S2	No fuel. Poles N
Grimes (Urbana)	1.5 N,RR W	1055	35 L4 S6	80 oct. Fld lgts prior req.
Grove City	1 S, RR W	860	21 S6	73,80 oct. No sto.Poles W.
Jones (Chillocothe)	7.2 SE,RR SW	720	20 S2	Ltd 80 oct.
Knore (Minford)	2 SE,RR W	670	20 S6	80 oct. No sto. Pwr line S.
Lancaster	2.5 E,RR N,SW	830	25 S4	80 oct. Poles E.
(A) Lockbourne AAB (Columbus)(A)	11.5 SSE,RR W	738	55h R3 L5 S5	73, 100 oct. JP-1. No range.
Magnolia	0.5 NW,RR SE	970	22 S1	80 oct. Trees W
Marietta	1.8 ESE,riv S	615	27 S2	80 oct.
Marion	2.5 WNW,RR S	915	28 S2	80 oct.
Newark,2, CO-PG	3.5 SW,RR N	880	25 L3 S2	73 oct. 200' stacks S.
New Philadelphia	2.5 SE,RR SW	885	36 S6	80 oct. Poles N,E,W
Norton (Columbus)	6.5 E,RR N	800	22 S6	80, 91 oct. Pole line N
Ohio State University (Columbus)	8 NNW,riv E	900	22h S2	80, 91 oct.
→ Ohio Univ. (Athens)	1.5 E,RR S	640	40 L S6	80 oct. Port rnwy lgts
(N) Port Columbus - NAS (Columbus)	7 E, RR S	815	50h R2 L5 S6	80-100 oct. Poles NW.
Port Core (Rushsylvania) (NC)	1.6 SSW,RR NW	1275	14	Poles NNE; trees SSW.
Price (Columbus)	6 SE	760	22 S6	80 oct. Poles S, SE.
Raven Rock (Portsmouth)	3.5 WSW,riv S	538	24 L3 S6	80,91 oct. Lgtg fac not verified.
Reed's (Watertown)	4.9 W,hwy E,S	820	13 S1	80 oct. Pole line NE.
Riverside (Zanesville)	3.4 NNE,RR W	700	40 S4	80 oct. Hill, trees NNE,SSW.
Scioto Trail State Forest (Chillicothe)(NC)	8 SSE,RR NE	640	24	
Shumate (Jackson)	8 SSE,RR NE	720	20 S1	80 oct.
Springfield	4.2 ESE,RR N	1050	27 L4 S4	80 oct. No sto. Fld lgts prior req.
Sullivant Ave.(Columbus)	6 WSW,RR NW	860	31 S6	80,91 oct. Pole line S.
Tri-Co. (New Holland)	3 ESE,RR N	850	21 S1	80 oct.
Twin Cities (Gallipolis)	1.8 ENE,riv SE	563	30	Trees E. (NC)
Washington (Wash.C.H.)	4.5 ENE,RR S	910	22 S1	80 oct. Pole line S.
Wolfords (Amanda)(NC)	0.8 E, RR NW	960	13	
Woodsfield (NC)	1 W,hwy NE	1220	19	
(P) Wynkoop (Mt.Vernon)	1.4 SSW,RR NW	1050	34 S1	80,91 oct. Pole line E. RR E.
Zaleski St. Forest Svc.	1 SSW,RR NW	705	22	(NC)
(P) Zanesville	6.2 E,hwys N,S	902	50h R1 L5 S1	80 oct. prior req.
(P) Huntington(Chesapeake)	2 WSW, riv S	560	29h R1 S6	80,91 oct.
			WEST VIRGINIA	
Bollinger(Charleston)	4.5 SW,riv N	900	21 S4	80 oct.
Clark (Winfield)	5 N St.Albans	600	27 S6	73 oct. No sto. River E.
Morris (Williamson)	5 NNW,RR E	600	12 S1	80 oct. Pole line S.
Princeton	1.7 SW,hwy E	2450	20 S4	80 oct.
Ravenswood	0.6 NNW,RR W	600	23 S1	Ltd 80 oct. Obsts sur fld.
Roane Co. (Spencer)	1 SE,hwy NE	954	17 S1	80 oct.
(P) Scott (Mt.Hope)(Beckley)	2.6 N, RR E	2440	33 L1 S6	80, 91 oct. Trees N.
Stewart (Parkersburg)	2.3 NNW,riv W	602	33 S6	80 oct. Pole line SE.
(P) Wood Co. (Parkersburg)	7 NE, hwy E	835	45h L5 S6	80, 91, 100 oct. All lgts prior req.
Logan	7.2 NNW,riv E	630	15h S1	80 oct. Hill S,N.
→ Huntington				See Huntington Arpt, Chesapeake, Ohio

RADIO — PENNSYLVANIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
ALLEGHENY CO. ARPT (Pittsburgh)	278 (126.18 (118.7)	AC	(4);140.1,131.1,126.18
ALTOONA (Altoona-Blair Co.)	338(RF) (116.1)	SBMRAZ-VDT;203° 1.3	(4);116.1
CECIL FM	(- - -)	FM, 265°, 10.3	Pittsburgh
GREATER PITTSBURGH AIRPORT PITTSBURGH	396 (126.18)	CA	(3);126.18
HOOKSTOWN FM	(- - - -)	FM,308°, 32	Pittsburgh
MT. PLEASANT FM	(- -)	FM,124°, 24.7	Pittsburgh
NEW ALEXANDRIA FM	(-)	FM, 85°, 30	Pittsburgh
→ PITTSBURGH	254(PT) (116.1)	SBRAZ-VDT :85°, 2.2	(3);116.1
SUMMERHILL FM	(- - - -)	FM, 291° 22	Altoona
CECIL	219(C)	FMR,266°,10.3	Pittsburgh

VIRGINIA

FRONT ROYAL	362(FZ)(116.1)	SBMRAZ-VDT	(4);116.1
GORDONSVILLE (Int)	388(GJ)(116.1)	SBMRAZ-VDT;135°,2.6	(4);116.1
LYNCHBURG (Preston Glenn)	206(LB)(116.1)	SBRAZ-VDT;165°,2.1	(4);116.1

WEST VIRGINIA

→ ELKINS	240(EK)(116.1)	SBMRAZ-VDT;174°,2.9	(4);116.1
MARTINSBURG	209(MR) (116.1)	BMRLZ-VDT;35°,2.9	(4); 116.1
MORGANTOWN	269(MG)(116.1)	BMRLZ VDT;173°,5.6	(4);116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
				IM	MM	OM
PITTSBURGH, PA.			95° Mag.		ITK 201----(.80)	LKK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117 5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — MARYLAND

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Cumberland	2.5 S;riv N,S	780	58h L5 S1	80 oct. Mtns SW.
Mexico Farms(Cumberland)	3 S;RR E	630	36 S2	80 oct.Mtns E.

OHIO

Scott (Tiltonsville)(NC)	1.5 SSW;riv E	650	25	
Toronto	1.5 NW;riv E	1050	22	

PENNSYLVANIA

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
→ ALLEGHENY COUNTY(Pittsburgh)	5.3 S;RR NW	1251	57h R2 L6 S6	80-100 oct.No ctc lgts.Rdo rec req.
Allegheny Val'y(Tarentum)	3.2 W;RR W	1125	24 S4	80 oct.
Altoona(Duncansville)	1 SW;RR E	1050	36 S4	73 oct.
Altoona-Blair Co.24A-CO-PG	15 SSE	1495	44h R1 L4 S2	80,91 oct.
* Buckstown Int,12B,WA-CV	1 E;hwy S	2480	23 L3	
Connellsville	4 SSW;hwy E	1250	34h S2	80 oct.
Cresson	1 NE;RR W	2240	25 S2	80 oct.Pole line S.
(A) Greater Pittsburgh (Pittsburgh)(A)	15 WNW;riv N	1145	55h R1 L6 S4	91,100 oct.JP-1
Greene County (Waynesburg)	2.7 E;RR NW	1100	32 S6	80 oct.
Hamilton (Indiana)	2.5 E;hwy S	1440	26 S6	80 oct.Pole line S.
Harrison City	1.1 NW;hwy S	1230	17	Poles NW.
Huntingdon	1 S;riv NE	620	20 S4	80 oct.Pole line W.
(P) Johnstown	4.7 E;hwy N	2282	45h	
Keystone (Ebensburg)	3 SW;RR NW	2100	23 S4	87 oct.Obst sur fld.
Latrobe	2.8 SSW;hwy N	1144	23h S4	80 oct.
Leechburg	1.6 ESE;hwy W	960	30 S6	73 oct.Pole line N.NE.
Mayer (Pittsburgh)	10 WSW;RR S	770	16 S4	80 oct. Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII) (NC)-Not charted.

→ NEW OR REVISED DATA

PENNSYLVANIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
New Alexandria	1.5 ENE;hwy N	1200	18 S4	80 oct. Pole line N. See Allegheny County Arpt.
→ PITTSBURGH-ALLEGHENY CO. (Pittsburgh)				
Pittsburgh-Bettis (Pittsburgh)	5 SSE	1250	25h S6	80,91 oct.
Pittsburgh-Greensburg (Greensburg)	2.3 SE;hwy N	1280	26 L3 S6	80 oct.Twr W.No bndry lgts.
Pitt-Wilkins(Pitcairn)	1 NNW	1200	17 S2	80 oct.
Salix	0.6 S;RR NW	2200	24 S4	80 oct.
Somerset	2NNE;RR SE	2200	27 S4	80 oct. Pole line W.
Stultz (Altoona)	10.7 NNE;RR N	970	35 S6	73,80oct.Pole line N,E,NE.
Vandergrift	2 WNW;RR E	1000	21 S2	73 oct. Pole line NW.

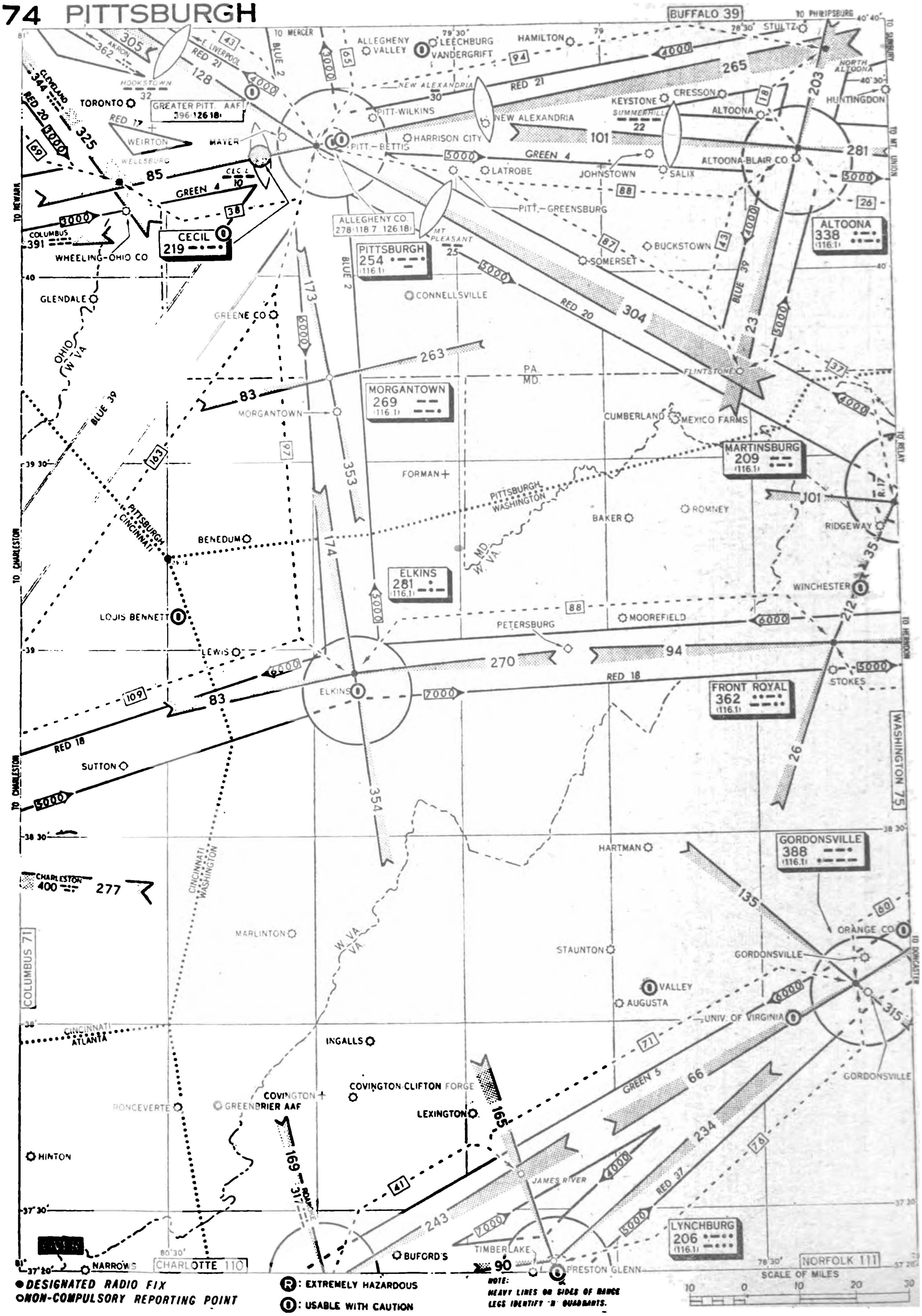
VIRGINIA

Augusta(Waynesboro)	0 WSW;riv SE	1420	24 S4	80 oct.Bad pole line SE.
Buford's (Montvale)	0.5 S;hwy N	1000	33 S6	80 oct. 100' hill E.
Covington-Clifton Forge	6.5 E;hwy S	1115	24 S4	80 oct.
Gordonsville	2.9 NE;RR S,SE	475	18 S6	80 oct. Trees NE,SW.
* Int,51,NA-WA	5 SSE	438	31 R1 L3	Pole line SW.
Hartman(Harrisonburg)	1 NW	1350	22 S4	80 oct.
Ingalls (Hot Springs)	3 S;hwy W	3780	31 S2	80 oct. Closed winters.
Lexington	2.7 SW;hwy S	1200	17 S1	73 oct. Pole line NE,SW.
Narrows	1 E;RR S	1550	20 S2	Ltd 80 oct. Trees W.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
Staunton	4.4 NE;RR NW	1300	26 S6	80,91 oct.Pole line NNE.
Stokes (Front Royal)	2.5 W;riv E	735	19 S2	80 oct. Pole line S,E.
Timberlake (Lynchburg)	9.5 SW;RR N	950	26	
→ University of Virginia (Charlottesville)	5 ESE;riv E	300	35 S6	80, 91 oct.Trees ESE.
Valley (Waynesboro)	1.7 NNE;RR E	1300	26 S2	80 oct. Pole line ENE,SSW
Winchester	3 SSE;hwy E,S	700	22 S6	80 oct.
Orange County (Orange)	4 E;hwy S		20	Data unverified.
Covington	1 NE	1500	20 S4	80 oct. Unverified.

WEST VIRGINIA

Baker Airpark(Burlington)	0.5 NNE;hwy S	740	19 S4	80 oct.
(P) Benedum (Clarksburg)	6 E;hwy S	1170	38h S6	80,91 oct.
(P) ELKINS	2.6 S;RR W	1965	45h R1 L5 S4	80,91 oct. No sto.
Forman (Terra Alta)	1 N;hwy W	2750	18 S4	80 oct.No sto.Data unver.
Glendale	0.5 WSW;bet RR & river	640	29 S6	80 oct.Trees N,S;pole line S.
(A) Greenbrier AAF (White Sulphur Springs)(A)	2 SW	1795	35h	
Hinton	4.8 WSW;RR E	2600	26 S4	80 oct. Pole line NNW.
Hinton-Alderson(Pence Springs)(NC)	1 E;riv,RR S	1520	26	Hill W,E.
Lewis (Buckhannon)	2.4 W;hwy N	1435	18 S4	80 oct.No sto.Hills sur fld.
Louis Bennett(Weston)	3.2 N;RR E	996	37	Hill S;pole line WNW
Marlinton	1.5 NNE;RR SE	2475	21 S2	80 oct. Hill WNW
Moorefield	0.8 NE;RR W	980	26 S4	80 oct. Trees WNW.
(P) Morgantown	2.2 ENE;hwy NW	1254	36h R1 L3 S6	80 oct.
* Petersburg Int,29,CC-WA	1.2 WSW;riv N	945	27 L2 S4	80 oct. No sto.
Ridgeway (Bunker Hill)	2.3 SSW;RR E	600	20 S6	80 oct.No sto.Pole line SSW.
Romney	2.1 NNE;riv W	750	16 S2	80 oct.Mts WNW,ESE,SSE.
Ronceverte	2 N;hwy SE	2175	18 S2	80 oct.
* Sutton Int, 21, CC-WA	3.6 ENE;RR W	1264	32 L3	
Weirton(Hollidays Cove)	7.5 E		11 S6	80 oct. Data unverified.
(F) Wheeling Ohio County	7.5 NNE;riv W	1190	50h L5	All lgts prior req.

74 PITTSBURGH



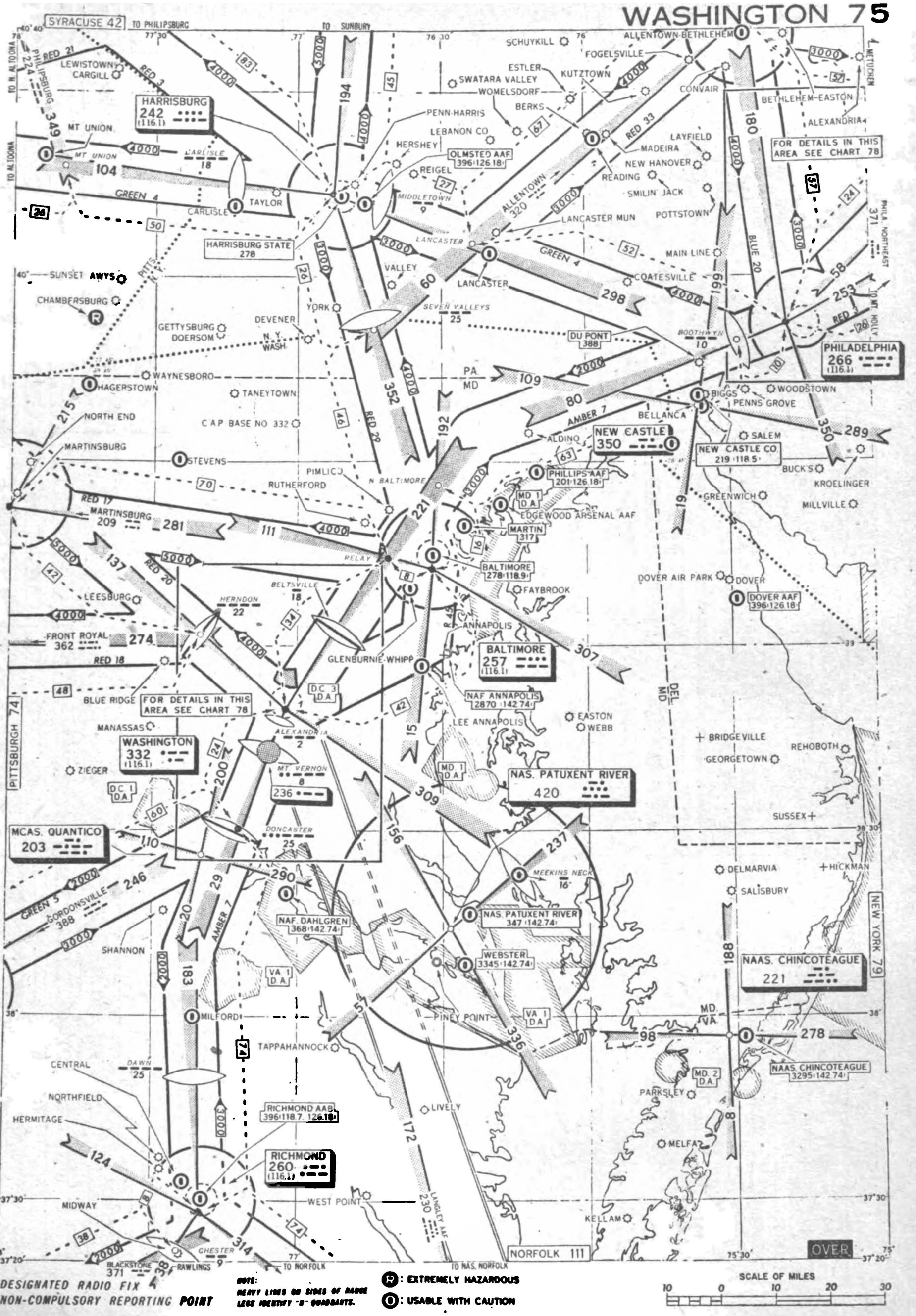
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS

Ⓞ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

WASHINGTON 75



LOCATION	FREQ., IDENT.	BEAR. & DIST.	OF OPER., REMARKS
DOVER AAF	396 (126.18)	CA	(3);126.18 (7-19)
DUPONT ARPT. (Wilmington)	388	CI	3105,3117.5,5[illegible]2.5 (8-2[illegible] daily except Sunday)
NEW CASTLE	350 (NC)	SMRAZ	
New Castle Co. Airport	219(118.5)	CI; 29°,2.8	3105,6210,3117.5; 118.5
– DISTRICT OF COLUMBIA –			
WASHINGTON	332(WA)(116.1)	SBRAZ-VDTX	(3); 116.1
– MARYLAND –			
ANNAPOLIS	2870(142.74)	CN	3105,2870,6420,142.74
BALTIMORE	257(O)(116.1)	BMRLZ-VDT	(3); 116.1 (7-17)
Baltimore Mun. Airport	278 (118.9)	C; 12°, 2.3	(4); 131.9,126.18,118.9
BELTSVILLE FM	(-)	FM; 41°,17.6	Washington, D.C.
DONCASTER FM	(. . - - -)	FM, 209°,24.7	Washington, D.C.
MARTIN ARPT (Baltimore)	317	CI	(4)(8-sunset,Mon-Fri.)
MEEKINS NECK FM (Navy)	(-)	FM; 57°, 16	Patuxent River
PATUXENT RIVER (Navy)	420 (NHK)	BMRLZ	(3); 142.74 (GCA)
Patuxent Riv.NAS	347 (142.74)	CN; 57°, 4	(3); 142.74
PHILLIPS FIELD (Aberdeen)	201 (126.18)	CA	(3);126.18 (8-18 Mon.-Friday)
WEBSTER (Priest Point)	3345 (142.74)	CN	3105; 142.74 (8-1630)
– PENNSYLVANIA –			
BOOTHWYN FM	(- - -)	FM, 260°,9.5	Philadelphia
CARLISLE FM	(- - - -)	FM, 284°, 18	Harrisburg
HARRISBURG	242(HX)(116.1)	SBRAZ-VDT	(3); 116.1
→ Harrisburg State Airport	278	C; 118°, 1.1	(4); 116.1,131.9,
MIDDLETOWN FM	(- -)	FM, 118°, 9	Harrisburg
OLMSTED FIELD (Middletown)	396 (126.18)	CA	(4); 126.18
PHILADELPHIA (Southwest Arpt)	266(PG)(116.1)	SBMRAZ-VDT, 97°, 3	(4); 116.1
SEVEN VALLEYS FM	(- - -)	FM, 172°, 25	Harrisburg
– VIRGINIA –			
ALEXANDRIA LFM	(- - -)	LFM,206°,2.4	Washington, D.C.
CHESTER FM	(- -)	FM, 218°,9.15	Richmond
CHINCOTEAGUE (Navy)	221 (NKZ)	MRLZ	3105,4495;142.74
Chincoteague NAAS	3295 (142.74)	CN; 98°, 4.5	(3); 142.74
DAHLGREN NAF PROV. GROUNDS	368 (142.74)	CN	(3); 142.74 (8-16 except Sunday)
DAWN FM	(- - - -)	FM, 3°, 25.1	Richmond
HERNDON FM	(- - - -)	FM, 317°, 21.8	Washington, D.C.
MOUNT VERNON FM	(. . - - -)	FM, 209°,8.2	Washington, D.C.
QUANTICO MCAS (Navy)	203 (NYG)	MRLZ	3105,4495
RICHMOND	260(RW)(116.1)	SBRAZ-VDT	(3); 116.1
→ Richmond AAB	396 (126.18) (118.7)	AC(ILS);20°,1.9	(4);131.9,118.7,126.18

INSTRUMENT LANDING SYSTEMS (localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
Richmond AAB, Va.	109.9		63° Mag.	IM- (17)	MM- .....(.90)	OM- - -(4.50)
				IM-	MM-	OM-
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station;
(3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bellanca (New Castle)	1.5 W	30	25h L1 S5	80,91 oct. Poles N.
Biggs (New Castle)	1 NW,riv SE	60	21 S2	80 oct. Riv. S
Bridgeville	1.5 S	20	27 S6	80 oct.Data unver.
Dover	1.4 ENE	34	19 S2	80 oct.Poleline N,Crk.
Dover Airpark	2.2 N,rd W	37	25 S2	80 oct. NW.
(A) Dover AAF (A)	4 SE,hwy E	28	70h R1	INACTIVE.
DuPont(Seaford)(NC)	0.8 WSW,RR NE	25	21	Poles NE. PRIVATE. RESTRICTED.
DuPont (Wilmington)	3 WNW,RR E	185	29 R1 L4 S4	80 oct.No sto.
(P) Georgetown	1.5 E,RR NW	51	50h	
(P) New Castle County (Wilmington)	4.8 SW,hwy SE	75	70h R2 L5 S1	80, 91 oct.
→ Rehoboth Beach Aircrafters	2.5 W,hwy N	10	35 L S6	80,91 oct.Obsts sur fld. Port rnwy lgts.
Skycraft (Wilmington) (NC)	3 NE,rd N	250	15	Poles N,W,S;trees NW, SE.
Sussex (Frankford)	1 N		24 S4	80 oct.Data unver.
MARYLAND				
Aldino (Churchville)	2.2 NE,RR SE	400	20 S6	80 oct.
Andelot(Worton)(NC)	4 WNW,bay W	25	20	Trees N
Annapolis	2 SE		18h S4	80,91 oct.No sto.Data unver. Rdo req.
→ BALTIMORE MUN.	6 SE,RR NE	14	46h R2 L5 S6	80,91 oct.100 oct prior req.
C.A.P. Base (Westminster)	2.6 N,hwy E	780	20 S4	80 oct.Poleline E, NE.
Delmarvia(Salisbury)	2.8 NE,hwy W	45	21 S6	80 oct.Poleline N,E,NE.
→ Easton	2.2 N,RR E	66	40h L S4	80 oct.No sto.Port lgts.
(A) Edgewood Arsenal(A)	1.3 S	18	50h L5 S4	91,100 oct.No ben CLSD
Faybrook(Rock Hall)	1.5 NNW,bay W	20	14 S4	80 oct.Trees WNW, NNE
Glenburnie-Whipp	1 E,hwy W	56	26 S6	80 oct.Seaplane Anchor
Hagerstown	4.2 N,RR W	700	39h L3 S4	80 oct.Fld lgts prior req.
Hickman(Ocean City)	7.5 NW	15	27 S1	80,91 oct.Data unver.
Lee Annapolis(Annapolis)	4.8 WSW, hwy E	30	28 S1	73 oct.Pole line ESE.
Martin(Baltimore)	10 E,RR N	18	70h R1	PRIVATE.
(N) Patuxent River NAS(N)	2.9 NE Jarboes	38	97h R2 L6 S4	91,100 oct.JP-1.NATS.
(A) Phillips(Aberdeen)(A)	3.2 S,RR W	57	50h R1 L5 S1	91,100 oct. CLOSED.
Pimlico (Baltimore)	6 NW,hwy SW	400	32 S6	80,91 oct.
(N) Piney Point (N)	0.8 WNW	10	14h S1	73 oct.Use rnwys only.
Rutherford(Baltimore)	7 W,RR W	500	23 S6	80 oct. Twr N.
Salisbury	5.3 ESE	52	50h	
Shady Side (NC)	1.8 SSW	10	15	Poleline SSW,RR W
Stevens (Frederick)	5.8 N,hwy E	440	28 S6	80 oct.Trees SW,S,W.
Taneytown	2.9 WNW	500	20 S4	80 oct.Poleline S,SW,W
Webb (Easton)	2.5 E	50	26 S6	80 oct.No sto.Poleline
(N) Webster (Priest Point) (N)	1.5 W Ingoes	21	50h R1 S1	Ltd 100 oct. JP-1 on req. S,SE.
NEW JERSEY				
Alexandria (Pittstown)	2 WNW,lk NE	340	18 S4	80 oct.No sto.Trees ENE
Buck's (Bridgeton)	3.7 NNE,RR S	100	18 S4	80 oct.P-line S,W.
Greenwich	2.5 W,riv SW	30	21 S6	73,80 oct.Trees N.
Kroelinger(Vineland)	2.5 NNW,RR E	100	19 S6	80 oct.Poleline S,E.
(P) Millville	3.3 SW,lk N	68	50h L5 S6	80,91 oct.
Penns Grove	3 SE,riv W	10	22 S2	73 oct.Poleline W,SSW.
Salem	2 ESE,rd S	15	22 S6	80 oct.
Woodstown (Auburn)	1.5 SSE,RR E	100	20 S1	80 oct.Poleline N,NE.
PENNSYLVANIA				
ALLENTOWN-BETHLEHEM (Allentown)	4.6 NNE,RR NW	380	40h R1 L5 S6	80,91 oct.Use rnwys only.Fld lgts prior req.
Berks (Reading)	4.5 NW, hwy SW	360	23 S4	80,91 oct.Hill NW.
Bethlehem-Easton (Easton)	4.5 SW,riv S	360	23 S6	80,91 oct.No sto.Poleline sur fld.
Cargill (Granville)	1.5 SW,RR SE	490	23 S2	73 oct.Obsts sur fld.
→ Carlisle	1.8 WSW,RR N	480	23 S6	80 oct.
Centerville(Carlisle)	11.3 SW,RR N	660	23	Trees E, NE. (NC)
Chambersburg	1.2 SSE,RR SW	650	22 S6	80 oct.E/W strip rough
Coatesville	1.6 W,RR S	623	26 L1 S4	80 oct.Obsts sur fld.
Convair(Allentown)	3 SSW	399	40h	
Devener(Hanover)	2 NNE,hwy W	590	20 S6	73,80 oct.
Doersom(Gettysburg)	2.4 NW,RR N	590	19 S6	73 oct.Pwrline NE.
Estler(Mohrsville)	3.5 W,pond W	390	22 S6	Ltd 80 oct.Trees W.
Fogelsville	0.7 E,RR SE	460	22 S4	80 oct.No sto.P-line SW

AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Gettysburg	2.8 NNW	600	24 S3	80 oct.No sto.RR SW
HARRISBURG STATE	3.5 S,RR N	344	40h R2 L5 S6	80,91,100 oct.
Hershey	1.1 NNW,RR S	415	21 S2	80, 91 oct
Kutztown	1.5 S,RR SE	400	25 S4	73 oct.
Lancaster	1.5 NNW	320	26 S6	73,80 oct.Pwrline W,RR
Lancaster,35,CO-PG	5.5 N,hwy W	385	27h L4 S4	80 oct.Poles S,WSW. SW
Layfield(New Hanover)	2 NE,hwy W	320	17 S6	80 oct.Trees NE.
→ Lebanon Co.(Myerstown)	1.8 W,hwy S	525	17 S5	80 oct.
Lewistown	4 SW,riv SE	560	19 S6	80 oct.Wooded hill NW.
Madeira (Reading)	3.2 N,RR W	360	20 L S6	80 oct.Port flood lgts.
Mount Union	4 S,hwy E	560	30 S4	80 oct.
New Hanover	0.5 W,hwy SE	320	20 L S4	80 oct.Port flood lgts.
(A) Olmsted(Middletown) (A)	1 W,RR N	300	50h R1 L5 S6	62-100 oct.JP-1.Poles N, NE, Riv. S.
→ Penn Harris(Harrisburg)	4 ESE,RR N	400	18 L S6	80,91 oct.Flood lgts.
Philadelphia Main Line (Paoli)	2.8 WNW,hwy S	310	21 S4	No fuel.Pole line ESE.
Pottstown	4.5 E,hwy N	311	30 S6	80 oct.Bldg NW.
READING	3 NW,riv E	342	52h L1 S6	B-2 lgts prior req.
Reigel(Campbelltown)	1 N,hwy N	475	20 S4	80 oct.
→ Schuylkill(Pottsville)	8.3 ESE, lake SE	510	29 L S6	80 oct.Port rnwy lgts. Hills SW,E,NE.
Smilin' Jack (Douglassville)	1.3 NW,RR S	200	24 S4	80 oct.
Sunset Airways (Chambersburg)	3.5 NNE,rd E, S	650	25 S1	80 oct.Pole line E,NNW
Swatara Valley (Pine Grove)	4 WSW,RR N	480	21 S4	80 oct.
Taylor(New Kingston)	0.5 SE,hwy N	440	28 S6	80 oct.Pole line N.
→ Valley Arpk (York)	3 ENE,RR N	420	21 S6	80 oct.Poles SSE,NNW.
Waynesboro	3 SE,hwy N	700	20h S6	80 oct.
Womelsdorf	3 NW,hwy E	540	13 S1	73 oct.
York	8.3 WSW,RR E	500	19 L S6	73,80 oct.Floodlgts.Pole N
VIRGINIA				
Blue Ridge(Herndon)	4 WSW,hwy NE	280	30	Poleline E.
Central (Richmond)	2.5 ENE,RR W	172	45 S6	80 oct.Poles WNW,SE.
(N) Chincoteague NAAS	4.5 WNW,hwy S	38	60h R2 L5 S4	100 oct. (N)
(N) Dahlgren NAF Proving Grounds (N)	0.5 E	20	40h R1 L5 S2	100 oct. CLOSED.
Harcum (NC)	0.2 NW	85	35	Poles,trees sur fld.
Hermitage(Richmond)	3.2 NNW,RR W	200	20 S6	80 oct.Trees,poles E,W
Hummel (Greys Pt.)	3 NE Harmony	30	21	Obsts sur fld. (NC)
Kellam(Weirwood)	0.3 SW,RR E	15	20 S1	73 oct.Trees NE,SE.
Leesburg Airpark	0.7 ESE	280	26 S6	80 oct.Poleline NE.
* Lively Int,6,NW-WA	3.4 WSW,riv W	15	34 L3	35'trees,bldgs NW.
Manassas	2.7 NW,RR S	250	21	Pole line SW,SSE.
Melfa Flgt Strip	1.3 W	48	70h	
Midway (Chester)	2 E,hwy S	178	26 S2	80 oct.20-50' trees E.
* Milford Int,49B,AG-LG	1.5 S,RR W	134	26 L3	40'trees S,NE,SW.
Northfield(Richmond)	3 N,hwy W	197	20 S4	80 oct.
Parksley	0.6 WNW	25	18 S4	80 oct.
(A) RICHMOND AAB(A)	7.3 ESE,RR S	160	50h R3 L5 S4	73,100 oct.
Shannon(Fredericksburg)	1.6 SSE,riv E	50	23 S6	80 oct.
Tappahannock Flgt Strip	0.8 W	30	40h	8000' strip avail.
West Point	2.3 ESE	24	50h S4	80,91 oct.Riv SSW.
Zieger(Warrenton)	3.7 S,hwy NE	440	20 S2	80 oct.Hill W, NW.
WEST VIRGINIA				
(P) Martinsburg	4 S,hwy W	550	50h R1 L5 S6	80, 91 ,100 oct.
North End (Martinsburg)	2.5 NNE,RR W	515	28 S2	80 oct.Pole line N.

B-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X[illegible]) NC (not charted). → New or revised data.

PHILADELPHIA—WASHINGTON

RADIO

DISTRICT OF COLUMBIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANACOSTIA NAS (Washington)	251(142.74)	CN	(3);142.74(7-sunset and on req.)
BOLLING FIELD (Washington)	219(126.18) (128.16)	CA	(3);126.18,128.16
→ WASHINGTON	332(WA)(116.1)	SBMRAZ-VDTX	(3);116.1
Washington Nat'l Arpt.	278(126.18) (118.5)	AC(ILS);25°,0.9	(4);118.5,126.18,131.9

MARYLAND

→ ANDREWS FLD (Camp Springs)	317(126.18)	CA	(3);126.18 (CCA)
BELTSVILLE FM	(-)	FM, 41°,17.6	Washington, D. C.
DONCASTER FM	(. . . . . -)	FM, 209°,24.7	Washington, D. C.

PENNSYLVANIA

BOOTHWYN FM	(- - -)	FM, 260°,9.5	Philadelphia
HOLMESBURG LFM	(- - -)	LFM, 238°,6.5	NE Philadelphia
JOHNSVILLE AIRPORT	203 (142.74)	CN	3105 cont,4495,6210;116.1,126.18, 140.58,142.74 on req (8-1/2 hr past sunset)
MUSTIN NAAF (Philadelphia)	251(126.18) (142.74)	CN	(3);126.18,142.74 (7-sunset,other hrs req on request.)
PHILADELPHIA (SW Arpt)	266(PG)(116.1)	SBMRAZ-VDT;97°,3	(4); 116.1
Philadelphia NE Arpt	278	CI	(4)
Philadelphia SW Arpt	278	CI	(4)
NE Philadelphia Range (Phil. NE Arpt)	371 (NP)	MLWZ-DT,238°,2.8	
WILLOW GROVE (Navy)	391 (NLX)	MRLZ	(3); 142.74
Willow Grove NAS	356 (142.74)	CN; 241°,3.35	(3);142.74 (days only except on 1 hr advance notice)
WINGS FIELD (Ambler)	278	CI	3105 (9-17)

VIRGINIA

ALEXANDRIA LFM	(- - -)	LFM,209°,2.4	Washington, D. C.
HERNDON FM	(- - - -)	FM, 317°,21.8	Washington, D. C.
MOUNT VERNON	236 (W)	FMK, 209°,8.2	Washington, D. C.
MOUNT VERNON FM	(. . . . -)	FM, 209°,8.2	Washington, D. C.
QUANTICO (Navy)	203 (NYG)	MRLZ	3105, 4495
Quantico MCAS	3295(142.74)	CN; 200°,4.6	(3); 142.74

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
WASHINGTON, D. C.	109.9	333.8	360° Mag.	IM ·····(.03)	MM	OM	--(3.50)
					MMK	OMK	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

DISTRICT OF COLUMBIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Anacostia NAS(Washington)	2.4SE Monument	8	50h R1 L5 S4	100 oct. No ben. (N)
→ (A) Bolling(Washington)(A)	3 SSE Monument	20	60h R1 L5 S6	73,100 oct.JP-1.Ridge E.
(A,N)WASHINGTON NATIONAL	2 S Monument	17	69h R3 L6 S2	80,91,100 oct.JP-1 req. Rdo rec. req.730'Rdo Twr,6.2 NW. FOREIGN CLEARING STA.

MARYLAND

(A) Andrews (Camp Spring)(A)	1.5 E	279	55h R1 L5 S4		80,100 oct. JP-1
(N) Beltsville OLP (N)	5 ESE	180	40h		CLOSED.
Capital (Berwyn)	2 NW; RR E	70	20 S4		80 oct. Pole line S.
→ College Park	8.5 NE of D.C	50	22 S6		80 oct. Hill SE. RR NW.
Columbia Air Ctr (Croom)	3 E; RR W	40	20		Trees N,NNW
Congressional (Rockville)	2 SSE;hwy E	450	32 S6		80 oct. Pole line E,NE.
Curtis (Brandywine)(NC)	3 SSW;RR E	200	18		Pole line N,W.
Erco (Riverdale)	0.4 NE; RR W	50	38 S1		80 oct. Trees E,NE,SW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIIII) (NC)-Not charted. → NEW OR REVISED DATA

MARYLAND

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(A) Ft. Meade (A)	0.5 NE ctr res	180	20h	
Hyde (Clinton)	2 WSW	249	32h S6	80,91 oct. Trees WNW,NE.
Maryland (Pomonkey)	0.2 S; RR S	170	30 S1	80 oct.
→ Queens Chapel (Hyattsville)	1.5 W; hwy NE	34	19 S6	80 oct.
Schrom (Greenbelt)	0.3 SW; hwy W	177	27h S6	80 oct. Trees NW,SE.

NEW JERSEY

Almonesson	0.6 NNW	50	18 S6		73 oct. Pole line NNE,SSE.
Bridgeport	0.8 ESE; RR N	23	18 S4		80 oct.
Burlington Airpark	1.7 NE		24 S4		80 oct. No sto.Data unverified.
Central (Camden)	1.8 E;riv S,W	20	25h		Open to private flying.
Echelon (Ashland)	0.5 SE;RR W	100	27 S6		80,91 oct. Pole line NW.
→ MARLTON-MEDFORD INC (Marlton)	1.5 ENE	80	30 S2		80 oct.
Mercer County,new (Trenton)	5 NW; RR SE	211	40h		
Mercer County, old (Trenton)	5.8 NW;RR E	200	25 S1		73,80,91 oct.
Merrill (Barrington)	1 ESE; RR E	70	35 S6		80 oct.No sto.Obsts sur fld.
Moorestown	1 NNE; RR S	70	18 S4		80 oct. Trees N.
Pitman	1.6 NNW;RR E	100	17 S6		80 oct. Pole line S,SSW.
Triangle (Glassboro)	4.3 ENE	150	18 S2		80 oct. Pole line SW.

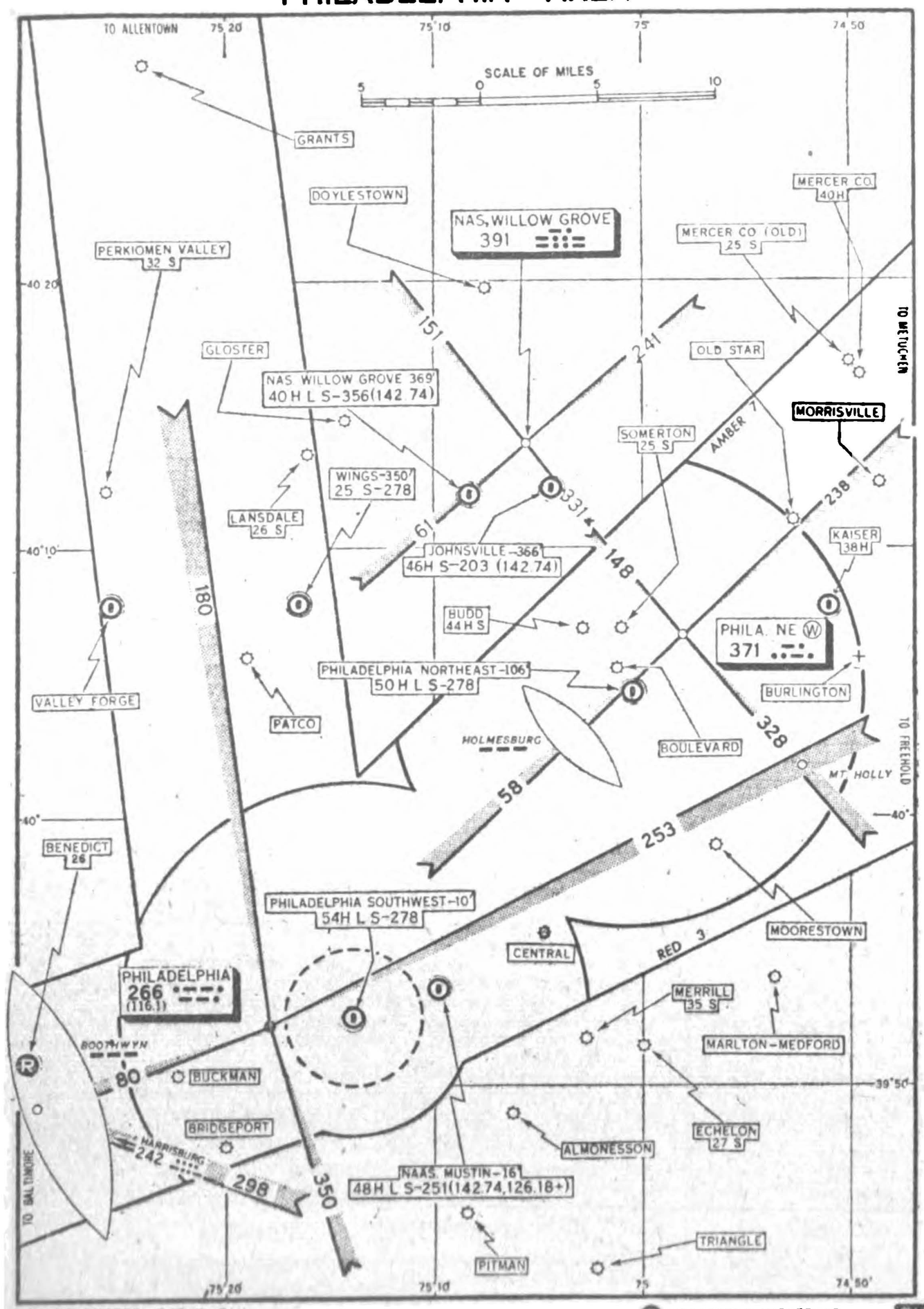
PENNSYLVANIA

→ Benedict Inc.(Chester)					ABANDONED.
Boulevard (Philadelphia)	12 NE; RR SW	160	22 S4		80 oct. Obst sur fld.
Buckman (Chester)	2.3 WSW;RR NW	90	20 S4		80 oct. No sto.
Budd (Philadelphia)	12.5 NE;RR N	240	44h		
Doylestown	1.5 NNE;RR SW	400	22 S6		80 oct.
Gloster (Montgomeryville)	0.7 SE;hwy W	460	22 S1		80 oct. Pole line SE,S,W.
Orants (Quakertown)	4 WNW; hwy E	600	18 S6		80 oct.
(N) Johnsville	6.8 NW; RR E	366	46h R1 S4		91,100 oct. Res't to Navy.
(N) Kaiser (Bristol)	2 N; riv SE	35	38h		Pole line SW. RESTRICTED.
Lansdale	1.6 ESE;hwy SE	450	26 S6		80,91 oct. No sto. Poles NE.
Morrisville	1.6 W;riv E	180	28 S4		80 oct.
(N) Mustin NAAS (Philadelphia)	4 S; riv S	16	48h R1 L5 S6		100 oct. Pole line NE.NAPC.(N)
Old Star (Langhorne)	2.4 E; RR N	180	24 S5		80 oct.No sto. Poles N,S.
Patco (Norristown)	2.5 SE;bet RRs	200	19 S6		80,90 oct. No sto.
Perkiomen (Collegeville)	1.5 NE;rds NE	280	32 S6		80 oct. Obsts sur fld.
(F) Philadelphia Northeast	12.2 NE;hwy W	106	50h R2 L5 S1		80,91 oct.Rdo req.
" SOUTHWEST	6.5 SW;riv SW	10	54h R2 L5 S6		82,91 oct. Rdo rec req.
Somerton (Philadelphia)	14 NE;RR N,E	200	25 S6		80 oct. Poles N,S,W.
Valley Forge (Norristown)	4 WNW;riv NW,SE	250	24 S6		80 oct.
(N) Willow Grove NAS (N)	4 NNW; hwy E	369	40h R2 L5 S4		91,100 oct. No sto.NAPC.NATS.
Wings (Ambler)	3 WSW;rds E,W	350	25 R1 S6		80,91 oct. Trees N,S.

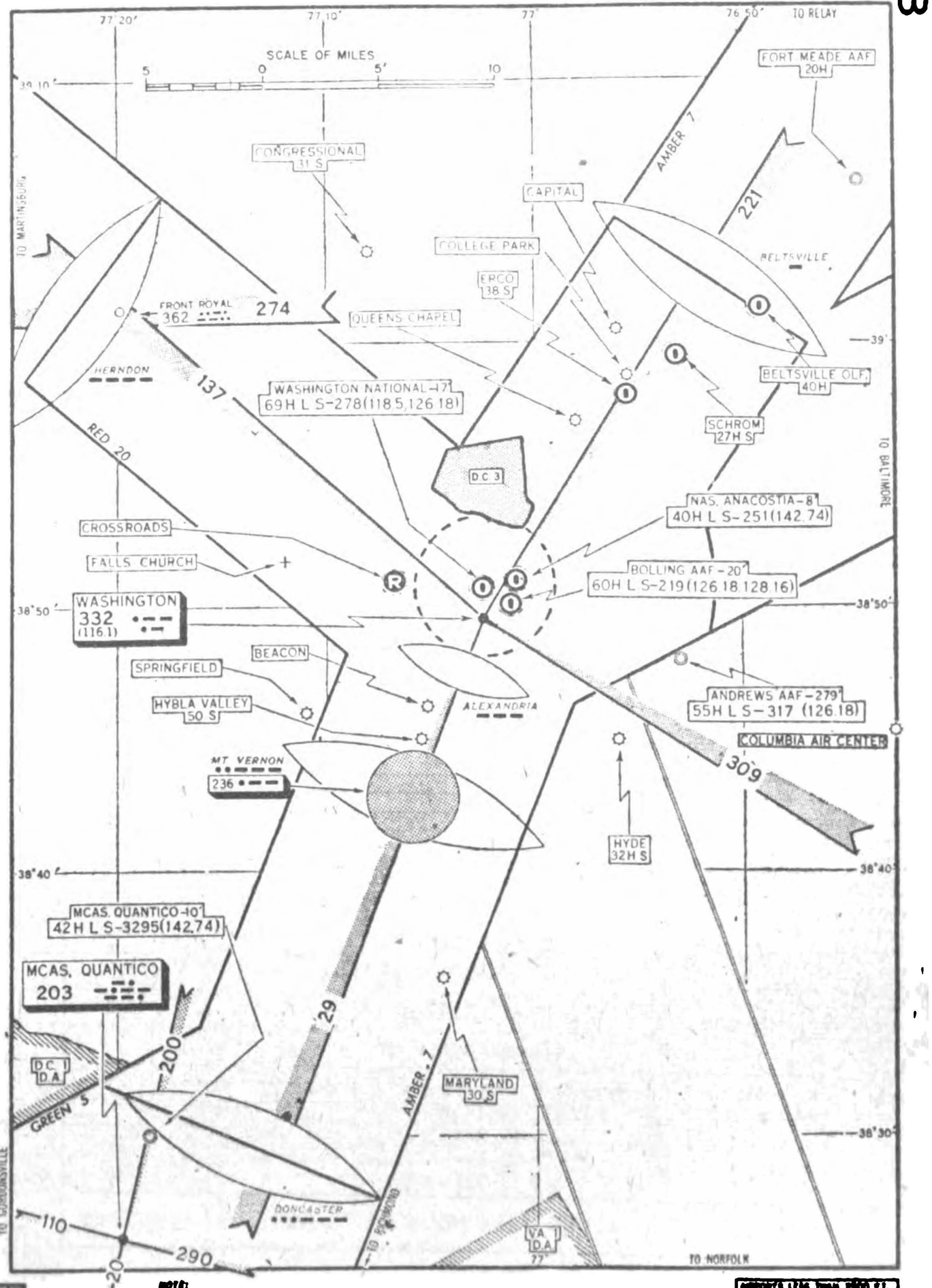
VIRGINIA

Beacon (Alexandria)	3 SSW;hwy E	240	24 L1 S6		80 oct.No sto. Pole line S.
Crossroads (Alexandria)	4.5 NW;RR E	250	20 S1		Ltd 80 oct.
Falls Church Airpark	1.9 SW	350	26 S6		No sto. Data not verified.
Hybla Valley (Alexandria)	4.5 SSW;hwy E	66	50 S6		80 oct. Trees,pole lines sur fld.
(N) Quantico MCAS (N)	1.2 SSW;RR W	10	42h R2 L5 S6		73,91,100 oct. NATS.
Springfield (Annandale)	3.5 SSE;RR E,W	240	20 S4		80 oct. No sto. Obsts sur fld.

PHILADELPHIA AREA



WASHINGTON AREA



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

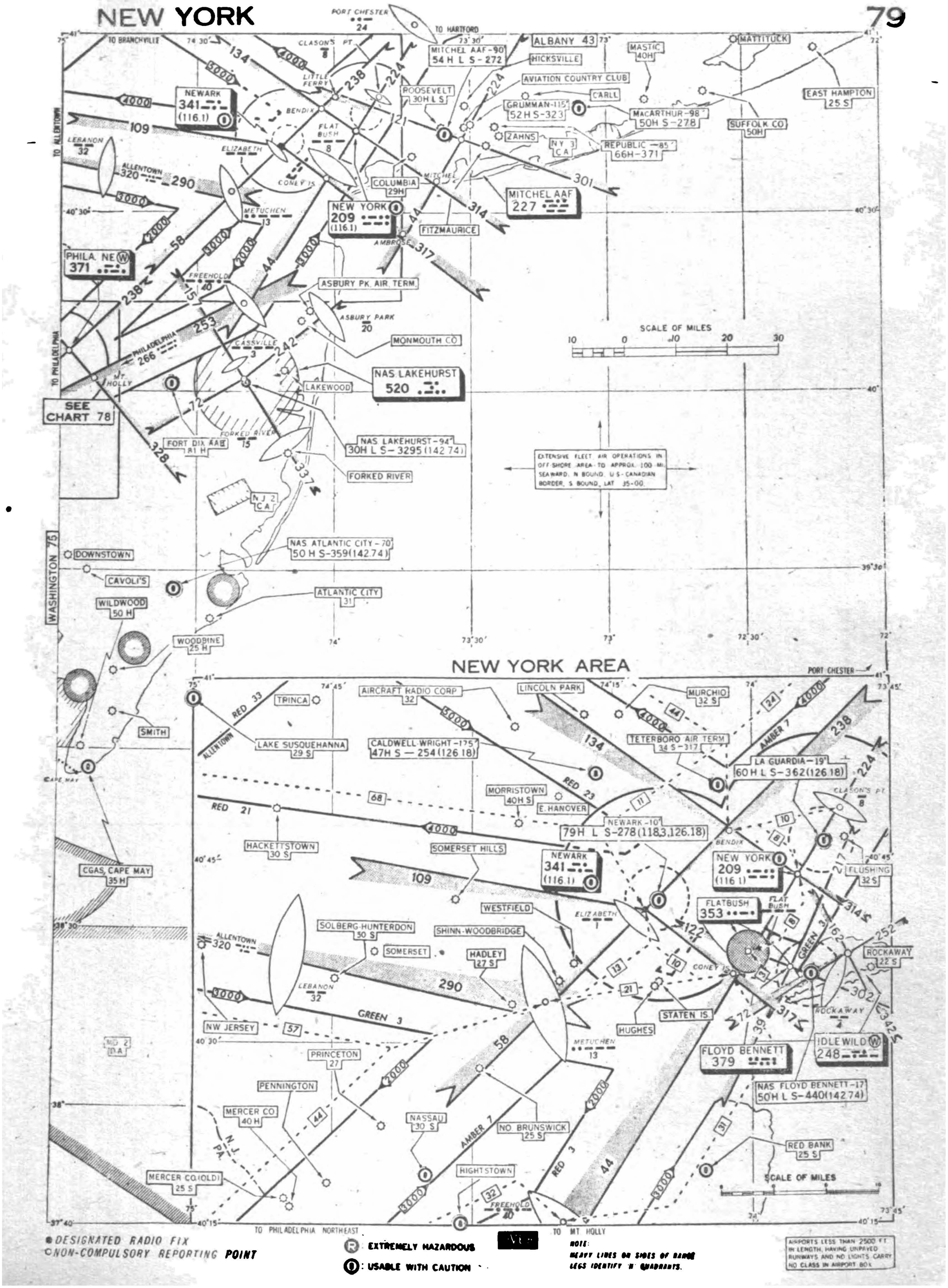
Ⓡ: EXTREMELY HAZARDOUS
Ⓓ; USABLE WITH CAUTION

OVER

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE 10 BOUNDARIES.

AIRPORTS LESS THAN [illegible]
[illegible]
RUNWAYS AND NO LIGHTS, CANNOT BE CLASS IN AIRPORT SIZE.

NEW YORK



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ : EXTREMELY HAZARDOUS

Ⓠ : USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'A' QUADRANTS.

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX

RADIO — NEW JERSEY

LOCATION	FREQ.IDENT	STA. CLASS, BEAR. & DIST.	FREQS.GUARD HRS. OF OPER., REMARKS
ASBURY PARK FM	(-)	FM, 62°,20	Lakehurst NAS
ATLANTIC CITY NAS	359 (142.74)	CN	(3); 142.74(8-Sunset)
CALDWELL-WRIGHT	254 (126.18)	CI	(4);126.18(8:30-sunset,Mon.-Sat.9-sunset Sun.)
CASSVILLE FM(Navy)	(- - - -)	FM,337°,3.25	Lakehurst NAS
ELIZABETH LFM	(- - -)	LFM, 238°,1.4	Newark
FORKED RIVER FM (Navy)	(- -)	FM,157°, 15	Lakehurst NAS
FREEHOLD FM	(- . - . -)	FM,224°, 40	New York, N.Y.
→ LAKEHURST (Navy)	520 (NEL)	MRLZ	3195 (4495 on req)
Lakehurst NAS	3295(142.74)	CN, 157°, 0.7	(3), 142.74
LEBANON FM	(- -)	FM, 110°, 32	Allentown, Pa.
METUCHEN FM	(. - - - .)	FM, 238°, 13	Newark
→ NEWARK	341(NK)(116.1)	SBRAZ-VDT	(3);116.1
Newark Airport	278 (126.18) (118.3)	AC (ILS): 58°,0.9	(4);121.9,126.18
→ TETERBORO (Bendix)	317	CI	3105 6210.3117.5 (7-22)

NEW YORK

CLASON'S POINT LFM	(-)	LFM, 44°, 7.5	New York
FLATBUSH	353 (F)	FMK, 224o,8.3	New York
FLATBUSH FM	(- - -)	FM,224°, 8.3	New York
FLOYD BENNETT (New York)	379 (FB)	SBMRLZ-DT	(3)
→ Floyd Bennett Fld NAS	440 (142.74)	CN, 122°, 1.9	(3);142.74 (8-17)
GRUMMAN (Bethpage L. L)	323	CI	(8-1630,Mon.-Fri.)
IDLEWILD	248 (NY)	SMRLW,72°,2.3	
→ LA GUARDIA(N.Y.)	362 (126.18)	AC (ILS)	(4),126.18,AAL,EAL, TWA,UAL,PCA,CAL)
→ MacARTHUR FIELD (Islip)	278	CI	3105 (9-17 week days,ngt & Sun.if important)
MITCHEL (Hempstead)(Army)	227 (DWM)	SBMRAPZ-DT	(3)
Mitchel Field	272	CA (ILS),301°,3.2	(3),
NEW YORK → (La Guardia)	209 (LG) (116.1)	SBMRAPZ-VDTX, 44°,3.4	(3), 116.1
PORT CHESTER FM	(. . -)	FM, 44°, 24	New York
REPUBLIC FIELD (Farmingdale)	371	CI	(3) (days)
ROCKAWAY PARK LFM	(- -)	LFM, 122°, 5	Floyd Bennett

PENNSYLVANIA

→ PHILADELPHIA NORTHEAST	371 (NF)	MLWZ-DT, 238°,2.8	

INSTRUMENT LANDING SYSTEMS *Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
LA GUARDIA, NEW YORK	109.9		44°Mag	IM (.05)	MM (.81)	OM (3.40)	
					MME 233 --- (.81)	OMR	
MITCHEL, NEW YORK	110.3	335	300°Mag	IM (.06)	MM ..... (.81)	OM -- (4.03)	
					MME 257 -- (.81)	OMR201 --- (4.03)	
NEWARK,N.J.	109.5	332.6	58°Mag	IM	MM (.59)	OM (3.8)	
					MMK 201---(.59)	OMK 219 -- (3.8)	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.;(4)-3105,4495,6210,3117.5 kcs., Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW JERSEY

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aero-Marine Terminal (Keyport)(NC)	1 NE;RR S	10	15	Bldg SW.Hwy S
Acft. Radio Corporation (Boonton)	2.6 N;riv S	550	32	Poles N,E. PRIVATE.

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Asbury Park Air Terminal	4.5 W,rd N	100	21 S4	80 oct.125' tank E.
Atlantic City	1.3 WSW,RR N	11	31 S2	350' tank E,lgtd.No fuel.
(M)Atlantic City NAS(N)	10 NW,RR NE	70	50h R1 L5 S4	91,100 oct.Lgts prior req.
Caldwell-Wright	2.4 N,riv N	175	47h R1 L1 S1	Rest'd factory oper
CG Cape May CGAS	2.5 ENE	13	35h	CLOSED
Cavoli's(Richland)	1.5 W,RR NE	100	20 S4	80 oct.Poleline NE. No sto.
(N)Clarke(Ocean City)	2.8 SW,RR SE	8	23	Naval tow target practice.
Coyle (Chatsworth)	6 ESE,hwy NE	190	18	(NC)
Downstown(Landisv'l)	1.8 WNW,RR S	120	23 S1	80 oct.Poleline N.
Forked River	1 ESE,riv S	12	18 S4	80 oct.Rnwy data not verified.
(A)Ft.Dix AAB (Wrightstown) (A)	1 SE	120	81h	INACTIVE.
Hackettstown	2 SSW;RR N	560	30 S2	73, 80 oct.
Hadley (New Brunswick)	4 N,RR N	100	27 S6	80 oct.
Hightstown & Air Svc.	1.3 SW,RR W	110	19 S6	80 oct.
(N)Lakehurst NAS (LTA)	1 NNW;riv N	94	38h R2 L5 S4	91, 100 oct. (N)
Lake Susquehanna (Blairstown)	2.3 WSW,RR S	380	28 S6	80 oct.
Lincoln Park	1.5 N,RR W	180	23 S1	80 oct. Poleline SE. N.
Mercer Co.(Trenton) (new)	5 NW,RR SE	211	40h	
Mercer Co.(Trenton) (old)	5.8 NW,RR E	200	25 S1	73,80,91 oct.
Monmouth Co.(Belmar)	5.5 W;rd E	180	30 S5	80 oct.
Morristown	3 E;RR N	187	40h L5 S4	80 oct.No sto.
Murchio (Paterson)	4.5 WNW;rd N	350	32 S4	80 oct.Trees N.
Nassau Arpk.(Clarksville)	1 NE;RR SE	80	30 S4	80 oct.Pwrline SSE
(A)NEWARK	3.5 SSE;RR E	10	79h R3 L5 S1	80,91,100 oct.JP-1.No sto.2-way rdo req.FE
North Brunswick	2 SW;RR E	120	25 S2	No fuel.Poles ENE,
Northwest Jersey (Clinton)	3.5 W,RR S	380	19	Poles N,S. ESE.
Ocean Co.(Adamston) (NC)	1 SW;riv N	14	21	Obsts sur fld.
Pennington	2 ESE;RR W	230	20 S6	80 oct.No sto.Pole line ESE.
Princeton	3 N;riv E	160	27	Poleline E,ESE.
Red Bank	1 S;RR E	80	25 S6	80,91 oct.Poleline W
Shinn-Woodbridge (Woodbridge)	3.9 NW;RR E	120	21 L S4	73,80 oct.Poleline SE.
Smith C.H.(Cape May)	2.2 NE;RR W	20	19	Pole line WNW.
Solberg-Hunterdon (Readington)	1 NNW;rd E	200	50 L S6	80, 91 oct. Unverified.
Somerset Hills (Basking Ridge)	1.6 SE;RR S	250	24 S6	80 oct.Pole line W.
Teterboro-Air Terminal (Bendix)	0.5 SW;RR NW	5	34 R1 L4 S1	80 oct.No bndry lgts.
Trenton (NC)	6 NE;RR I SE	70	15	Rest'd to USFS.
Trinca (Andover)	2 WSW;RR E	600	24 S6	73 oct.
Westfield (Rahway)	2 W;lake N	100	24 S4	80 oct.No sto. Trees SW,W,N,S.
Wildwood	6 WNW;RR E	22	50h	Obsts S.
(P)Woodbine	2 SE	39	25h	Trees sur fld. At jct RRs.

NEW YORK

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bender-Brentwood (Brentwood) (NC)	1 ENE,RR N	85	10	
Columbia (Valley Stream)	1 SW,RR N	15	29h	
Davis Flight Strip (Bayport) (NC)	1.3 NNW;RR S	40	22	
Deer Park (NC)	0.8 ESE,RR N	75	10	Trees adj E.Pole line W.
Donovan Hughes (Greenridge)	1 N,crks S,W	10	17 S1	80 oct.
East Hampton	2.5 W;RR S	40	25 S4	80 oct.No sto.
Fitzmaurice (Massapequa)	1.5 ENE,RR S	36	14 S6	80 oct.No sto.Trees N,S.
(N)Floyd Bennett NAS (New York) (N)	11.8 SSE	17	50h R2 L6 S4	91,100 oct. No sto. No bcn.
Flushing	1.5 NNW;pkwy E	4	32 L S4	80 oct.Pole line W, SW. Portable rnwy lgts prior req
Grumman (Bethpage)	0.5 W;RR NE	115	54h R1 S5	91, 100 oct.Poles SW, SE.
Hicksville Airpark	2.4 N;RR E	190	17 S4	80 oct.
(A,N) LA GUARDIA (New York)	5 E;riv N	19	60h R3 L6 S1	73,100 oct.Rdo rcv req. PEB.
(P)MacArthur (Islip)	8 NE;RRs N,S	98	50h R1 L5 S1	91 oct.All lgts prior req.Rdo req
Mastic Flight Strip	2.6 NW	66	40h	
→ Mattituck	0.8 ESE,bay S	12	25 S6	80,91 oct.Poles N.
(A)Mitchel(Hempstead)(A)	0.5 NE;RR N	90	54h R3 L6 S6	73,91,100 oct.JP-1. Foreign Clearing Station.
Nassau (Hempstead)	4.5 E;hwy N	80	21	
Republic (Farmingdale)	1.3 ENE;RR N	85	66h R1 L5	NE blocked.Closed ngts.trans.PRIV.
Richmond Co.(Travis) (NC)	0.5 SW,riv W	10	24	160' chimney SW.
→ Rockaway (Edgemere)	1 WSW	20	22 L S4	80 oct.Pwr line S, SE.Port rnwy lgts.
Roosevelt (Mineola)	1.6 ESE;RR N	90	30h L3 S5	80,91,100 oct. Wires NE.
Sayville (NC)	0.8 N	25	15	Trees sur fld.
Staten Island (New Springville)	1 S;rd W	40	22 S4	80 oct.Poleline SW
Suffolk Co. (Westhampton Beach)	2.6 N	69	50h	
Zahns(Amityville)	2.5 NNE;RR NE	80	22 S6	80 oct.Pole line SW.
Somerset (Somerville) N.J.	4.6 NW;RR SE	105	20 S5	80,91 oct.Trees W.
→ East Hanover (N.J.)	1 N	170	15 S2	80 oct Poleline W.
→ Carll Skyport (Commack,N.Y.)	1 S,RR N,S	140	24 S1	80 oct Trees S,SE
→ Lakewood,(N.J.)	2.5 SE;lk NW		26 S4	80,91 oct. Data unver

H-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA.

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BANNING FM	(-)	FM, 76°, 25	Riverside
CASTAIC FM	(- - - -)	FM, 322°, 41	Los Angeles
CORONADO FM	(- -)	FM, 139°, 10	San Diego
DAGGETT(San Bernardino Co.	365 (DG)(116.1)	SBRAZ-VDT,149°, 0	(4); 116.1
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
FONTANA FM	(- - - -)	FM,324°, 16.5	Riverside
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LA MESA FM	(-)	FM, 75°, 13.2	San Diego
LEBEC FM	(- -)	FM, 141°, 42	Bakersfield
LINDBERGH FLD (San Diego)	278 (126.18) (118.3)	AC	(4);126.18,118.3,131.9
→ LONG BEACH	233(HB)(116.1)	SBMRLZ-VDT,298°,3.9	(3);116.1
→ LOS ANGELES	260 (LA)	SBRAZ-DTX,244°, 3.8	(3)
→ MARCH FIELD (Riverside)	201 (126.18)	CA (ILS)	(3);126.18
MIRAMAR MCAS (San Diego)	3295(142.74)	CN	(3); 142.74 (GCA)
MOJAVE NAS	3295(126.18) (142.74)	CN	(3);126.18,142.74
MT. LAGUNA	254 (TN)(116.1)	MHVT	(4); 116.1
MUROC (Army) Muroc AAF	350 (DUC)	MRL	
NEWHALL (Int.)	219 (126.18)	CA; 64°, 2.2	(3); 126.18
	209 (NH)(116.1)	BMRL-VDT,317°,0.1	(4); 116.1
→ OCEANSIDE	326(OC)(116.1)	MHVT	(4);116.1
OCEANSIDE FM	(- - - -)	FM, 325°, 34	San Diego
→ PALMDALE	332 (PA)(116.1)	SBMRAZ-VDT,216°,2.5	(4); 116.1
REAM NAAS (San Ysidro)	3295(142.74)	CN	3105,142.74 (745-1630 Mon.-Fri.)
RIVERSIDE (March Fld)	388 (RV)(116.1)	SBMRAZ-VDT,128°,2.9	(4); 116.1
SAN BERNARDINO AAF	272 (126.18)	CA	(3); 126.18
→ SAN CLEMENTE ISLAND (Navy)	DECOMMISSIONED		
San Clemente Island NAAS	3295(142.74)	CN,	3105;4495;142.74
→ SAN DIEGO (Lindbergh Fld)	224 (SQ)(116.1)	SBRAZ-VDT,139°,2.3	(3); 116.1
→ San Diego NAS	266 (142.74)	CN	(3);126.18,142.74(GCA)
→ San Diego NAS (Seapl.)	2870	CN	
→ SAN NICOLAS ISLAND FM(Navy)	DECOMMISSIONED		
→ TRONA	323 (EW)	SBMRAZ-DT,349°,11	(4) Not manned cont.
VICTORVILLE AAF	278 (126.18)	CA	(3); 126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
				IM (.19)	MM ·····(.85)	OM --(3.99)	OMK
MARCH, CALIF.	109.9		229° Mag.		MMK		

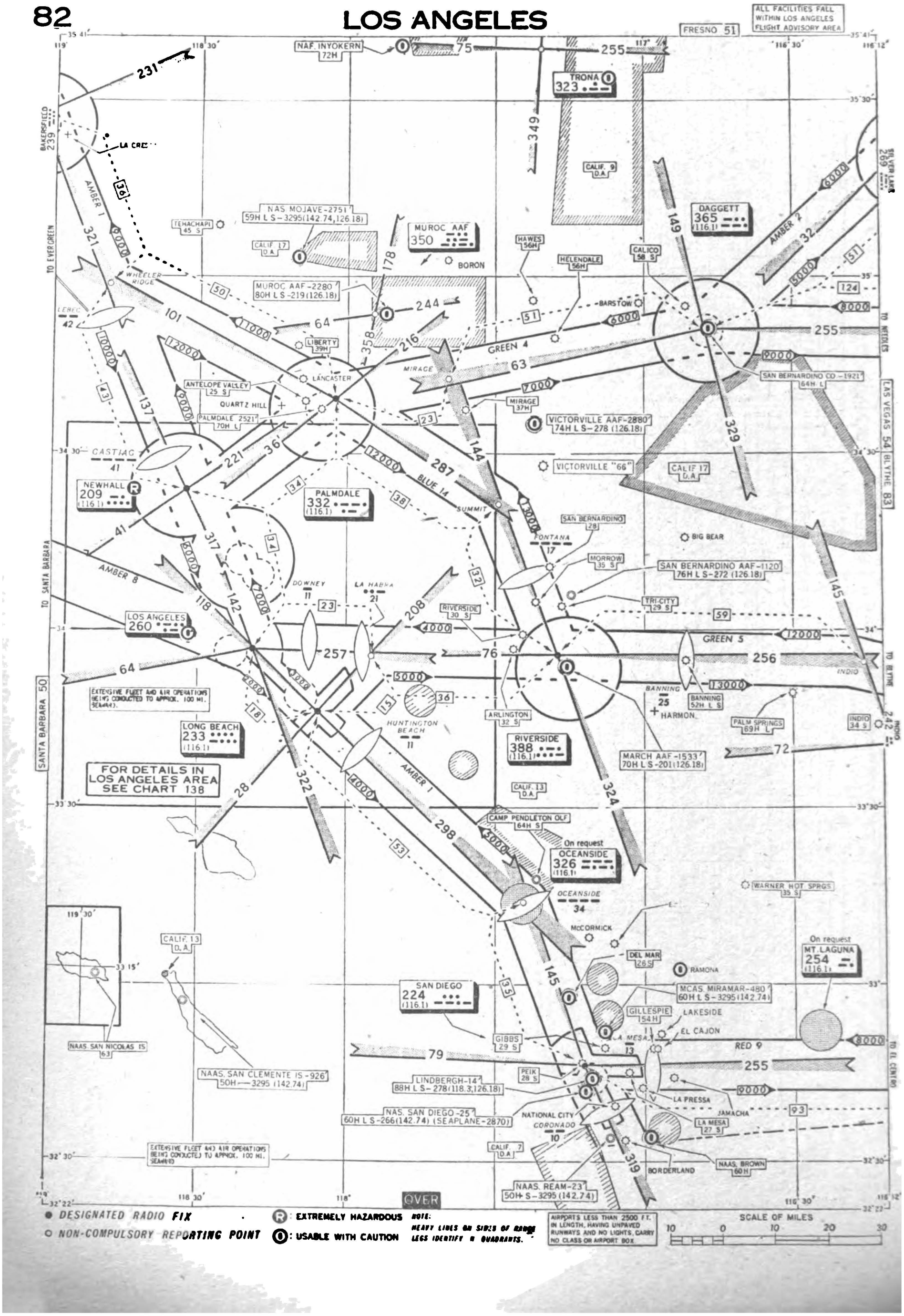
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
→ Antelope Valley (Lancaster)	3.5 S;hwy E	2470	25 L S2	Ltd 73 oct. Port rnwy lgts.
Arlington (Riverside)	4.5 WSW;RR W	765	32 S6	80 oct. No sto.
Bakersfield Kern Co.#2 (Bakersfield) (NC)	6 E;RR, hwy S	660	21	
(P) Banning	1 SE;RR N	2190	52h L5 S5	80,91 oct. No sto.
Barnes (Rosamond)(NC)	12 E;rd N	2300	38	
Barstow	1.8 N;hwy S	2150	24 S6	80 oct.
Big Bear City	0.5 NW;hwy S	6850	24	
Borderland(San Ysidro)	1.5 WNW;RR W	80	19 S6	80,91 oct. Pole line SE.
Boron	0.9 NE;RR S	2550	21 S1	80 oct.Poles E. Data not verified
(N) Brown NAAS (Otay)(E)	5.5 ESE	512	60h	INACTIVE.
Buffalo Springs (Avalon)	7 NW	1560	35	On Catalina Island. PRIVATE.(NC)
Calico (Yermo)	2.3 WNW;hwy S	1921	58 S1	73 oct. Mtns N.
(N) Camp Pendleton OLF (Oceanside)(N)	6 NNE;RR SE	75	64h L S1	NATS.
(N) Castle OLF (San Diego)	On NW end San Clemente Isl.	163	20	(NC)(N)
(N) Clark's Dry Lake OLF (San Diego)(N)(NC)	65 NE.	450	50	On W portion Dry Lake.
→ Del Mar	1.1 NNE	11	26 S1	80,91 oct.1000' paved rnwy.Unver.
Escondido	1 W;RR,hwy N		19 S4	73, 91 oct.
Gibbs (San Diego)	7 NNE;hwy W	405	29 S4	87 oct.No sto. Poles E. NE.
Gillespie (Santee)	1 SSW;rd E	385	54h	Towers W.
Hawes (Victorville)	27.5 N;RR N	2319	56h	
Helendale (Victorville)	20 N	2508	56h	
(N) Inyokern NAF (N)	0.5 WNW;RR E	2455	72h	INACTIVE.
Jamacha (La Mesa)	6.8 ESE;riv N	520	24 S1	80 oct.
La Cresta(Bakersfield)	2.5 NE	660	36h S1	80,91 oct.Data not verified.
Lakeside	1.3 W;hwy S	400	20 S1	80 oct.Pole line NE,SW.
La Mesa	2 WSW;hwy N	500	27 S4	80 oct.Pole line SSE.
Lancaster	0.5 NW;RR E	2330	22 S4	73 oct.No sto.Poles E,S.
La Pressa (La Mesa)	4 S;hwy W	275	19 S4	80 oct.
Liberty (Rosamond)	4.1 S;RR E	2300	39h	
(A) LINDBERGH (San Diego)	2 W	14	88h R2 L5 S6	80,91 oct. Rdo req. ARPT OP ENTRY
(A) March (Riverside)(A)	8.8 SE;RR SSW	1533	70h R3 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEARING STATION.
McCormick (San Marcos)	1.5 WSW;RR NE	530	22 S4	80,91 oct.
Mirage (Victorville)	18 WNW;rd S	2865	37h	
(N) Miramar MCAS (San Diego)	9.5 N	480	60h R1 L5 S4	91,100 oct. No bcn. (N)
(N) Miramar OLF (San Diego)	1 N Miramar	470	25	Hwy SE. (N) (NC)
(N) Mojave NAS (N)	0.7 E;hwy W	2751	59h R1 L5 S6	91,100 oct. No sto.
→ Morrow (Rialto)	1.8 S;RR N	1100	35 S5	80,91 oct.Pwr line W.
(A) Muroc AAF (A)	2 S;dry lk N	2280	70h R2 L5 S6	73,91,100 oct.JP-1.No sto.CLOSED.
National City	1.1 SSE;RR W	10	22 S4	80 oct.Poles,stack NW.
(P) Palmdale	3 NE;RR W	2521	70h R1 L5 S2	91,100 oct.
Peik (San Diego)	4.8 WNW	20	28 S4	80 oct.No sto.Twr SE.
→ Quartz Hill (Lancaster)	6.5 SW	2450	29 L S1	80,91 oct.Port rnwy lgts.Data unverif
Ramona	0.6 WNW;rd NE	1440	15 S1	80 oct.
Randsburg (NC)	1.8 NE;rd SE	3500	20	Poles W.
(N) Ream NAAS (San Ysidro)	3.2 W	23	50h R1 L S4	100 oct. No sto. (N)
Riverside	2.3 WNW;riv SE	760	30 S4	80 oct.No sto.
(N) Rosedale OLF (San Diego)	6 N;RR W	400	15	(N) (NC)
Ryan (Hemet) (NC)	2.5 WSW;RR SE	1502	23	
Ryan #1 (Hemet) (NC)	4.2 NW;hwy E	1500	22	
→ San Bernardino	4.7 NNW;RR W	1425	28 L	Port rnwy lgts. Pole line E.
(A) San Bernardino AAP(A)	3.5 ESE;RR SW	1120	76h R1 L5 S6	62,73,91,100 oct. JP-1.
San Bernardino Co. (Daggett)	5 E;RR S	1921	64h R1 L3	
(N) San Clemente Island → NAAS (N)	8 S of N end	926	50h R1	INACTIVE.
(N) San Diego NAS (N)	4.5 WSW	25	60h R1 L5 S6	91,100 oct. NAPC
(N) San Nicolas Island NAAS (N)	On E end Isl.	502	63	INACTIVE.
→ Tehachapi	1 N;RR S	3952	45 L S2	73,91 oct.Range lgts. Pole line SE
→ Tri-City (San Bernardino)	3.3 SSE;RR S	1015	29 L S4	91,80 oct.Poles SE, W. Port rnwy lgts.Poles SE,W.
(A) Victorville AAF (A)	6 NW;RR E	2880	74h R1 L5 S5	100 oct.
Warner Hot Springs	3 W;hwy NE	3140	35 S1	Ltd 80 oct. Trees E. S.
(N) PALM SPRINGS	2.5 E; RR NE	475	69h L5	
Indio	0.8 NNE;RR SW	-12	34 S4	80 oct. No sto. Pwr line W.
El Cajon	2.5 E;hwy W	440	25 S6	80,91 oct.No sto.
Harmon (San Jacinto)	1.4 SW	1600	23 S6	80 oct.No sto.
Victorville '66'	5.2 SSW;RR E	3225	32 S4	80 oct.No sto.

L-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See ... XIII) (NC)-Not charted. → NEW OR REVISED DATA

LOS ANGELES


ALL FACILITIES FALL WITHIN LOS ANGELES FLIGHT ADVISORY AREA
FRESNO 51
NAF. INYOKERN 72H
TRONA 323
CALIF. 9 D.A
DAGGETT 365 (116.1)
NAS. MOJAVE-2751' 59H L S-3295(142.74,126.18)
MUROC AAF 350
BORON
CALIF. 17 D.A
TEHACHAPI 45 S
MUROC AAF-2280' 80H L S-219(126.18)
HAWES 56H
HELENDALE 56H
CALICO 58 S
BARSTOW
LEREC 42
WHEELER RIDGE
LIBERTY 39H
LANCASTER
ANTELOPE VALLEY 25 S
QUARTZ HILL
PALMDALE 2521' 70H L
MIRAGE
MIRAGE 37H
VICTORVILLE AAF-2880' 74H L S-278 (126.18)
VICTORVILLE "66"
CALIF 17 D.A
SAN BERNARDINO CO-1921' 64H L
CASTIAC 41
NEWHALL 209 (116.1)
PALMDALE 332 (116.1)
BLUE 14
SUMMIT
SAN BERNARDINO 28
FONTANA 17
BIG BEAR
MORROW 35 S
SAN BERNARDINO AAF-1120' 76H L S-272 (126.18)
TRI-CITY 29 S
DOWNEY 11
LA HABRA 21
RIVERSIDE 30 S
LOS ANGELES 260
GREEN 5
INDIO
BANNING 25
HARMON
BANNING 52H L S
PALM SPRINGS 69H L
INDIO 34 S
EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD.
LONG BEACH 233 (116.1)
HUNTINGTON BEACH 11
ARLINGTON 32 S
RIVERSIDE 388 (116.1)
MARCH AAF-1533' 70H L S-201(126.18)
FOR DETAILS IN LOS ANGELES AREA SEE CHART 138
CALIF. 13 D.A
CAMP PENDLETON OLF 64H S
On request
OCEANSIDE 326 (116.1)
OCEANSIDE 34
WARNER HOT SPRGS 35 S
McCORMICK
On request
MT. LAGUNA 254 (116.1)
DEL MAR 26 S
RAMONA
SAN DIEGO 224 (116.1)
MCAS. MIRAMAR-480' 60H L S-3295(142.74)
GILLESPIE 54H
LAKESIDE
EL CAJON
LA MESA 13
GIBBS 29 S
PEIK 28 S
LINDBERGH-14' 88H L S-278(118.3,126.18)
LA PRESSA
JAMACHA
NATIONAL CITY
CORONADO 10
LA MESA 27 S
NAAS. SAN NICOLAS IS 63
NAAS. SAN CLEMENTE IS-926' 50H — 3295 (142.74)
NAS. SAN DIEGO-25' 60H L S-266(142.74) (SEAPLANE-2870)
CALIF. 7 D.A
BORDERLAND
NAAS. BROWN 60H
NAAS. REAM-23' 50H S-3295 (142.74)
EXTENSIVE FLEET AND AIR OPERATIONS BEING CONDUCTED TO APPROX. 100 MI. SEAWARD
OVER
BAKERSFIELD 239
TO EVERGREEN
TO SANTA BARBARA
SANTA BARBARA 50
SILVER LAKE 269
TO NEVADA
LAS VEGAS 54
BLYTHE 83
TO BLYTHE
INDIO 242
TO EL CENTRO
AMBER 1
AMBER 2
AMBER 8
GREEN 4
RED 9
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 8 QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

BLYTHE

ALL FACILITIES IN LOS ANGELES FLIGHT ADVISORY AREA

LAS VEGAS 54

TWENTY-NINE PALMS 40H

CALIF. 18 D.A.

RICE 55H

PARKER 32

AGUILA 45H

ECHEVARRIA 40H

PALM SPRINGS 69H L

DESERT CENTER 38 L S

DESERT CENTER 50H

CALIF ARIZ

GARY-392' 29H

CONNER 38

TONOPAH 34 L

INDIO 24 S

THERMAL 50 H

INDIO 242 (116.1)

PORT MECCA

SHAVERS SUMMIT 60H

HARVEY

HERON 27 S

SALOME 41 L

PERRYVILLE 39

GREEN 5

WHITE TANK

SALTON SEA 40

BLYTHE 70H

BLYTHE 251 (116.1)

GILA BEND 257 (116.1)

CALIF. 4 D.A.

CALIPATRIA

BRAWLEY 30 S

O'CONNELL

LAGUNA 50H

NAS. EL CENTRO -(-43') 69H L S-317 (142.74)

IMPERIAL CO. 32 S

CALIF. 12 D.A.

RED

GILA BEND AAF-850' 62H L

TO CASA GRANDE

TO SAN DIEGO

MARSH 40 S

DATELAN AAF 66H

GILA BEND NO 5 37H

GILA BEND NO 6 37H

GILA BEND NO 4 37H

ARIZ 1 D.A.

On request

MT. LAGUNA 254 (116.1)

EL CENTRO 212 (116.1)

HOLTVILLE 60 H L S

YUMA 230 (116.1)

WELLTON

FLY 65H S

CALEXICO 28 S

SOMERTON 30 S

AJO AAF 64H L S

JACUMBA HOT SPRINGS OLF 25

ARIZ MEXICO

LOS ANGELES 82

PHOENIX 86

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

AIRPORTS LESS THAN 2200 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

SCALE OF MILES
25 0 25 50

BLYTHE

RADIO — ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS OF OPER., REMARKS
GILA BEND (AAF)	257(UQ)(116.1)	SBMRAZ-VDT,166°,4	(4); 116.1
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
→ YUMA (Fly)	230(UP)(116.1)	SBMRAZ-VDT,165°,5.8	(4); 116.1
CALIFORNIA			
BLYTHE	251(YH)(116.1)	SBMRAZ-VDT,265°,4.1	(4); 116.1
EL CENTRO	212(MB)(116.1)	SBMRLZ-VDT	(4); 116.1
El Centro NAS	317 (142.74)	CN, 320°, 3.5	(4); 142.74 (7-18 & on 30 min. notice)
→**INDIO**	242(IN)(116.1)	BMRLZ-VDT	(4); 116.1
MT. LAGUNA	254(TN)(116.1)	MHVT	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ARIZONA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aguila	1.5 NNW	2000	45h	
(A) Ajo AAF (A)	6 N,RR NE	1434	64h L3 S4	91, 100 oct.
Conner (Quartzsite)	0.3 SSW,hwy N	850	38	150' hill S.
(A) Datelan AAF	4 W Aztec	450	66h	INACTIVE. RR S.
Echeverria (Wickenburg)	14.8 WSW,RR N	2380	40h	
(A) Gila Bend AAF (A)	4 S,hwy W	850	62h R1 L5	
(A) Gila Bend #4 (A)	18 SSW	1000	37h	INACTIVE.
(A) Gila Bend #5 (A)	15.3 SW	800	37h	INACTIVE.
(A) Gila Bend #6 (A)	7.7 WSW	800	37h	INACTIVE.
Laguna Landing Strip (Laguna)	6.5 NE	500	50h	
Marsh (Yuma)	0.7 E,RR W	130	40 S1	80 oct.
Parker	1.4 ENE;RR W	430	32 S2	No fuel. Fld rough.RR S.
Salome (NC)	0.7 S,hwy N	1876	45	15' poles NW.
★ Salome Int,27B, LA-PH	13.5 S	1354	41 L3	Mtns 7 mi.E,3 mi. W.
Sky Ranch (Wickenburg) (NC)	0.8 N,riv E	2000	24	Trees SSE.
Smiley (Wellton)	13 E,RR S	250	26	Poles SW, NE. (NC)
Somerton	3 ENE,RR W	250	30 S3	80 oct.No sto.
★ Tonopah Int,31, LA-PH	5 NNE Wintersburg	1102	34 L2	
Wellton	0.5 NW,RR S	225	24 S2	73,80 oct.

CALIFORNIA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Blythe	7 W,hwy S	397	70h R1	
(N) Borego Hotel OLF (San Diego)(N)(NC)	65 ENE	400	25	
Brawley	1.3 NE,RR W	120	30 S6	80 oct.Poles SE,E.
Calexico	1.2 W,riv N	0	28 S6	80,91 oct.Data unver.
Calipatria	0.5 W,hwy adj S,rd E	180	49 S3	No fuel or sto.35'poles all zones.
(N) Clark's Dry Lake OLF(San Diego)	65 NE	450	50	On W portion Dry Lake. (N) (NC)
(N) Coyote Wells OLF -North (San Diego)	13 NNE	300	26	(N) (NC)
(N) Coyote Wells OLF -South(San Diego)	3 E	300	25	(N) (NC)
Desert Center	2.5 NE,rd NW	555	50h	
★ Desert Center Int, 17, LA-PH	1 ENE,hwy S, W	894	38 L3 S1	80 oct. (truck)
(N) EL CENTRO NAS	7 WNW,RR S	-43	69h R2 L5 S4	91, 100 oct. No sto. (N)
Gary (Blythe)	5 NNW,RR N	392	29h	
Harvey (Blythe)	13.5 W,hwy S	565	23 S4	73 oct.No sto.
Heron (Blythe)	1.2 E,riv E	265	27 S1	73 oct.Poles N.
(N) Holtville (N)	7.5 NE,canal W	58	60h	INACTIVE
Imperial Co. (Imperial)	1 S,hwy E	-69	32 L4 S6	80,91 oct.Poles SE.No bcn.Lgts prior req.
Indio	0.8 NNE,RR SW	-12	34 S4	80 oct.No sto.Pwrline W.
(N) Jacumba Hot Springs OLF (N)	1 E,hwy N	2900	25	
(N) Ocotillo OLF (San Diego)(N)(NC)	37 WNW of Brawley	160	30	Creek N.
O'Connell Brothers (Brawley)	0.3 S,hwy W		17 S6	80 oct.Data unver.
(N) PALM SPRINGS	2.5 E,RR NE	448	69h L5	
Port Mecca (Mecca)	1.4 WNW	180	17 S5	80 oct. RR SW.
Rice	2.2 ESE,RR N	832	55h	
Salton Sea		-152	40	NW Westmoreland.
Shavers Summit (Indio)	29.5 ESE,hwy S	1690	60h	Mtns N,S,W
Thermal	1.8 SW,hwy W	-117	50h	
Twentynine Palms	4.8 N	1768	40h	
→ Fly (Yuma,Ariz.)	4.5 SSE.RR N	213	65h R1 L S2	80 oct. Ltd sto. Bndry lgts prior req.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page x111) NC-(not charted) → New or revised data.

RADIO

ARIZONA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
COCHISE (Int.)	272(CJ)(116.1)	SBMRAZ-VDT,259°,2.3	(4); 116.1
DAVIS MONTHAN FIELD (Tucson)	396 (126.18) (118.3)	C	(3); 116.1,126.18,118.3,131.9
HILLTOP FM	(-)	FM, 79°, 34.4	Cochise
LITCHFIELD PARK NAF	290 (142.74)	CN	(3); 142.74 (0730 to sunset)
→ LUKE (Phoenix)(Army)	219(DRM)	BMRLZ	(3)
Luke Field	396 (126.18)	CA, 163°, 8.2	(3); 126.18
→ MESA FM	(-)	FM, 81°,15	Phoenix
PERRYVILLE FM	(- - -)	FM, 261°, 29.4	Phoenix
→ PHOENIX (Sky Harbor Airport)	326(PH)(116.1)	SBMRAZ-VDT,261°, 2.3	(3); 116.1
RED ROCK FM	(- - - -)	FM, 307°, 42.8	Tucson
SKY HARBOR AIRPORT (Phoenix)	278(126.18)(118.5)	C	(4);116.1,140.1,126.18,118.5, 131.9
→ TUCSON (Davis Monthan)	338(TZ)(116.1)	SBRAZ-VDT;307°.3.28	(3); 116.1
→ VAIL FM	(- -)	FM, 106°, 13.9	Tucson
WILLIAMS FIELD (Chandler)	201 (126.18)	CA	(3); 126.18
NEW MEXICO			
RODEO (Int.)	254(RH)(116.1)	BMRLZ-VDT,24°,0	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station;
(3)-3105, 4495, 6210 kcs., (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

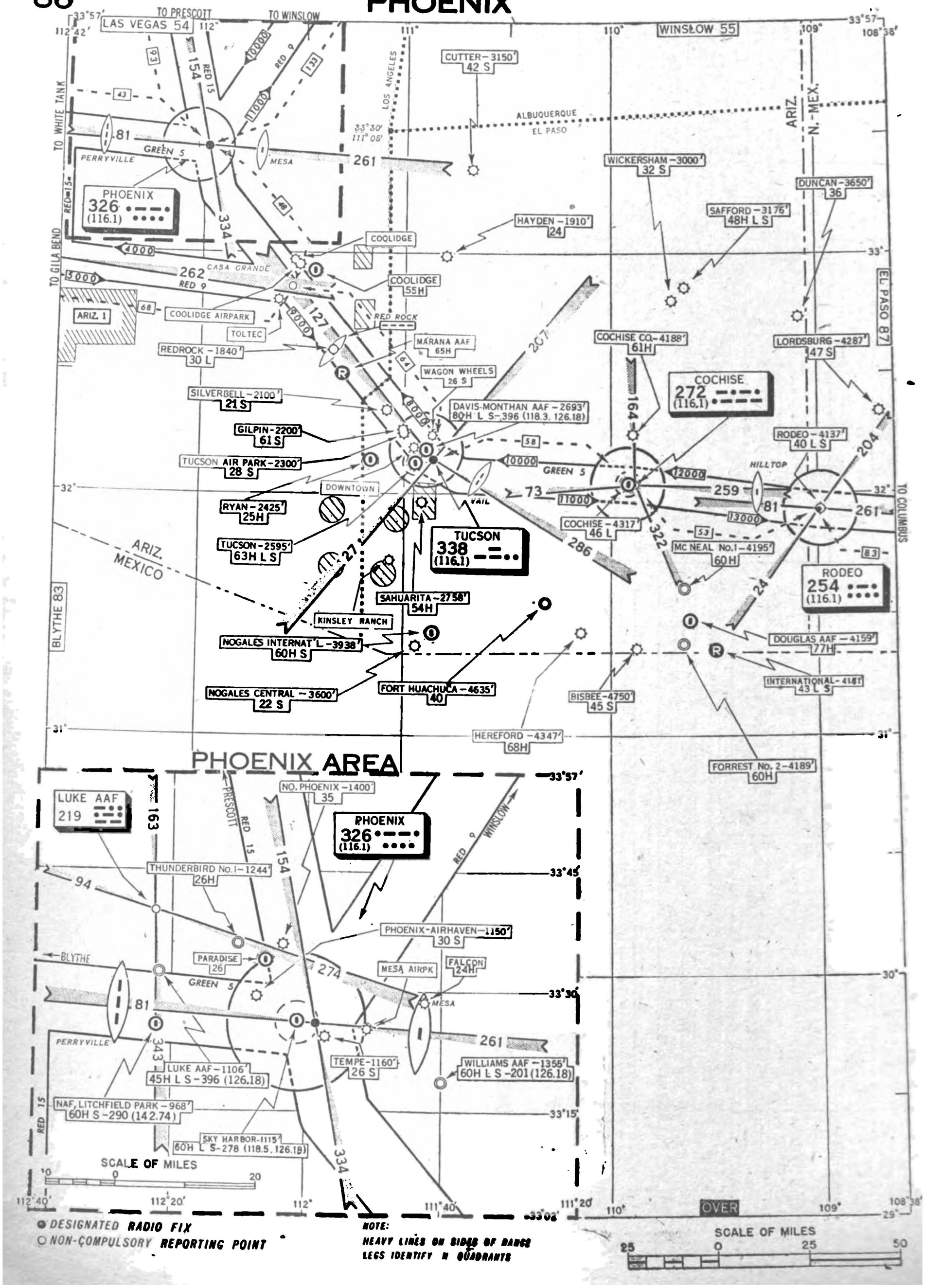
AIRPORTS

ARIZONA

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Air-Topia (Phoenix) (NC)	6.2 SW,RR N	1050	26	
Bisbee	6.4 SSE,RR W	4750	45 L S4	80 oct.Poles W.Port.rnwy lgts prior req.
Bowie (NC)	1.9 W,RR N	3800	20	Pole line NE, W.
Clifton-Greenlee (Clifton)(NC)	8.7 SSE,hwy W	3800	35	
★ Cochise Int,T-3,PH-EO	6 S,hwy E	4317	46 R1 L3	
(P) Cochise County (Willcox)	3.8 W,rd N	4188	61h	
Coolidge Airpark	1.7 S,RR E	1450	34	
Coolidge	6.4 SE	1587	55h	Closed, emerg. use only.
Coolidge Flying Field	1.5 WSW,RR E	1450	21 S1	80 oct. Pole line E.
Cutter (Globe)	6.8 ESE,RR N	3150	42 S4	80 oct.
(A) DAVIS-MONTHAN (Tucson)(A)	5 SE,RR SW	2693	80h R2 L5 S6	73-100 oct. JP-1.
(A) Douglas AAF (A)	8.5 NNW	4159	77h	INACTIVE.Twrs E.
Duncan	1 NE	3650	36	Poleline, race track W.
Falcon (Mesa) (NC)	7.3 NE,hwy S	1332	24h	
Florence (NC)	5 SSE,hwy E	1500	45	
(A) Forrest #2 (Douglas)(A)	6.4 WNW	4189	60h	INACTIVE.
Ft.Apache (White River)(NC)	2.6 SSW,riv S	5200	34	Trees S.
(A) Ft. Huachuca (A)	4 E,RR NW	4635	40	
Gilpin (Tucson)	4.2 NW,RR W	2200	61 L5 S6	80,91 oct.Poles E, SW.
Hayden	1.2 S,hwy E	1910	24	
Hereford	2.5 WSW,rd N	4347	68h	Twr SE.
INTERNATIONAL (Douglas)	3.3 E,hwy N	4181	43 L4 S4	80,91 oct. Fld lgts prior req. ARPT OF ENTRY.
Kinsley Ranch (Amado)	1.6 NNW,riv E	3100	31	RR E
Litchfield (Litchfield Park)(NC)	0.5 NW,canal S	1062	23	Trees SW.
(N) Litchfield Park NAF (N)	4.8 S,riv E	968	60h R1 S1	100 oct.
(A) Luke (Phoenix)(A)	18 WNW	1106	45h R2 L5 S6	91, 100 oct. JP-1.
(A) McNeal #1 (Douglas)(A)	19 NNW	4195	60h	INACTIVE
(A) Marana AAF (A)	6 NW,hwy NE	1891	65h	CLOSED
Mesa (NC)	1.8 NNW,hwy E	1100	18	Pwrline E,W;bldgs E;canal embankment W.
Mesa Airpark	1.4 W,RR SE	1238	27 S1	80 oct. Poleline E.
Nogales Central	3 N,RR E	3600	22 S6	80 oct.No sto.
(P) Nogales International	8 NE,hwy N	3938	60h L5 S4	73,80,91 oct.All lgts prior req. ARPT OF ENTRY.
North Phoenix (Cactus)	0.5 E,hwy W	1400	35	
Paradise (Glendale)	5 ENE,canal S	1256	26 S2	No fuel. Trees S.
Phoenix Airhaven	3.9 WNW,RR W	1150	30 S6	80 oct.No sto.Poles SW,NE.
★ Redrock Int,7B, PH-EO	2.3 NW,RR E	1840	30 L4	
Ryan (Tucson)	13 WSW,rd S	2425	25h	Low dike S and E corner.
Safford	4.5 ENE,riv S	3176	48h L5 S5	80 oct.
Sahuarita Flight Strip	2.2 E,hwy W	2758	54h	
Sells (NC)	2 NW,rd E	2380	30	
Silverbell (Tucson)	11.2 NW,RR E	2100	21 S1	80 oct.
→ SKY HARBOR (Phoenix)	2.8 ESE,RR N	1115	60h R2 L5 S6	73,80,91,100 oct.
Superior (NC)	2 WSW,hwy N	2600	15	Pole line NE.
Tempe	1.2 SW,RR E	1160	26 S6	80 oct.Poles E,trees W.
Three Point (Casa Grande)(NC)	1.5 NNW,RR SW	1400	32	
Thunderbird #1 (Phoenix)	12 NW	1244	26h	
Thunderbird #2 (Phoenix) (NC)	13 NE,rd W	1500	25	Allway: 2500 x 2000'
Toltec	0.4 NNW,RR W	1500	26	Poles SSW,SW.
(P) Tucson	7 S,RR W	2595	63h S6	80,91 oct.
Tucson Airpark	3.1 NW,RR E	2300	28 S1	Ltd 80 oct.
Wagon Wheels Ranch (Tucson)	5.5 ENE	2200	26 S6	80 oct.No sto.Poles S,SE.
Wickersham (Safford)	2.5 S,RR NE	3000	32 S6	80, 91 oct.
Willcox (NC)	0.9 WNW,hwy E	4186	36	75' trees SE,bldgs NE.
(A) Williams (Chandler) (A)	10 E	1355	60h R1 L5 S6	73, 91, 100 oct. JP-1.
NEW MEXICO				
Lordsburg	1 SE,RR N	4287	47 S1	73 oct.
★ Rodeo Int, 26A, PH-EO	7.3 NNE,RR SE	4137	40 R1 L3 S1	Ltd 73 oct.
Downtown (Tucson,Ariz.)	1 4 S,RR SW	2400	34 S2	80,91 oct. Poles N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted). → NEW OR REVISED DATA.

PHOENIX


TO PRESCOTT
TO WINSLOW
LAS VEGAS 54
WINSLOW 55
CUTTER – 3150'
42 S
ALBUQUERQUE
EL PASO
ARIZ.
N. MEX.
WICKERSHAM – 3000'
32 S
DUNCAN – 3650'
36
SAFFORD – 3176'
48H L S
HAYDEN – 1910'
24
PHOENIX
326
(116.1)
COOLIDGE
COOLIDGE
55H
COOLIDGE AIRPARK
TOLTEC
REDROCK – 1840'
30 L
MARANA AAF
65H
WAGON WHEELS
26 S
RED ROCK
ARIZ. 1
COCHISE CO. – 4188'
61H
LORDSBURG – 4287'
47 S
EL PASO 87
COCHISE
272
(116.1)
SILVERBELL – 2100'
21 S
DAVIS-MONTHAN AAF – 2693'
80H L S – 396 (118.3, 126.18)
GILPIN – 2200'
61 S
TUCSON AIR PARK – 2300'
28 S
RODEO – 4137'
40 L S
HILL TOP
GREEN 5
DOWNTOWN
RYAN – 2425'
25H
TUCSON
338
(116.1)
COCHISE – 4317'
46 L
MC NEAL No. 1 – 4195'
60H
TUCSON – 2595'
63H L S
ARIZ.
MEXICO
RODEO
254
(116.1)
SAHUARITA – 2758'
54H
KINSLEY RANCH
DOUGLAS AAF – 4159'
77H
NOGALES INTERNAT'L – 3938'
60H S
INTERNATIONAL – 4161'
43 L S
NOGALES CENTRAL – 3600'
22 S
FORT HUACHUCA – 4635'
40
BISBEE – 4750'
45 S
HEREFORD – 4347'
68H
FORREST No. 2 – 4189'
60H
TO COLUMBUS
BLYTHE 83
PHOENIX AREA
LUKE AAF
219
NO. PHOENIX – 1400'
35
PHOENIX
326
(116.1)
THUNDERBIRD No. 1 – 1244'
26H
PHOENIX-AIRHAVEN – 1150'
30 S
PARADISE
26
MESA AIRPK
FALCON
24H
MESA
TEMPE – 1160'
26 S
WILLIAMS AAF – 1355'
60H L S – 201 (126.18)
LUKE AAF – 1106'
45H L S – 396 (126.18)
NAF, LITCHFIELD PARK – 968'
60H S – 290 (142.74)
SKY HARBOR – 1115'
60H L S – 278 (118.5, 126.18)
SCALE OF MILES
SCALE OF MILES
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY N QUADRANTS
OVER

EL PASO

ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA

WINSLOW 55 | ALBUQUERQUE 58

TO ALBUQUERQUE

ALBUQUERQUE
EL PASO

ENGLE
344
(116.1)

HOT SPRINGS

78

258

ENGLE - 4842'
46 L

NM 2
D A

ALAMOGORDO AAF
221

57

ALAMOGORDO AAF - 4092
84 H L S - 272 (126.7B)

HURLEY - 5746'
33 S

WHITEHILL

PHOENIX 86

LAS CRUCES - 4538'
39 L

ROSWELL 90

AMBER 3

TEX S

STATE COLLEGE - 3900'
30 S

DEMING (CENTER)
DEMING
81H

BIGGS AAF - 3937'
96H L S-396(126.18)

VALLEY - 3825'
34 S

DEMING - 4300'
31 S

DEMING (SOUTH)

LAS CRUCES MUN - 4426'
75 H

N. MEX.
TEX.

EL PASO
242
(116.1)

COLUMBUS
284
(116.1)

GREEN 5

82

HARRINGTON RANCH

HUECO MT

257

HACHITA - 4498'
38 L

COLUMBUS - 4024'
42 L S

MOUNT RILEY - 4106'
36 L

JUNDT - 3709'
32 S

EL PASO MUN. - 3936
70 H L S-278(118.7,126.18)

TEXAS (S OF 30°39', W OF 100°30')

MARFA MUN. (REIL)
53H

ARAGON - 4880'
60H

STARNS - 4481'
42 S

DRYDEN - 2300'
48H L

MARATHON

MARFA AAF - 4895
75 H

MARFA MUN.
44 S

SOUTH NO 1 - 4825'
60H

ALLISON RANCH - 5100'
49 S

VAL VERDE CO - 1094'
48H

DEL RIO - 1080'
30 S

LAUGHLIN AAF - 1069'
67 H

JOHNSON RANCH - 2092'
87

N. MEX.
MEXICO

TEX.
MEXICO

SCALE OF MILES
10 0 10 20 30 40 50

SCALE OF MILES
10 0 10 20 30

● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY "B" QUADRANTS.

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALAMOGORDO (Army	**221 (DGR)**	**BMRLZ**	(3);4220;126.18
Alamogordo AAF	**272 (126.18)**	**CA(ILS);167°,6.5**	(3);126.18 (0730-1930) Mon-Fri. (Sat. & Sun. 730-1630)
COLUMBUS (Int.)	**284(KS)(116.1)**	**SBMRAZ-VDT, 262°, 1.9**	(4); 116.1
ENGLE (Int.)	**344(EX)(116.1)**	**SBRAZ-VDT,176°, 2.9**	(4); 116.1
HARRINGTON RANCH FM	**(- - -)**	**FM, 257°, 28.5**	El Paso, Texas
	TEXAS		
BIGGS FLD (El Paso)	396 (126.18)	CA (ILS)	(3); 126.18
→EL PASO	242(EO)(116.1)	SBRAZ-VDT	(3); 116.1
El Paso Mun. Arpt.	278 (126.18) (118.7)	AC;257°, 4.9	(4); 131.9,142.74,118.7, 126.18
HUECO MTN. FM	(-)	FM, 77°, 18	El Paso

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
Alamogordo N. Mex.	109.9		155° Mag.	IM- ····· (.22)	MM- (1.00)	OM- -- (4.48)
					MMK-	OMK-
Biggs, Tex.	109.9		213° Mag.	IM- (.26)	MM- ····· (.85)	OM- -- (3,50)
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) Alamogordo AAF(A)	8.5 SW,hwy S	4092	84h R3 L5 S4	73, 100 oct.
★ Columbus Int,34, PH-EO	0.6 ESE,hwy N	4024	42 R1 L3 S1	73 oct.
Deming	2 ESE,hwy W	4314	81h	Clsd,emerg.use only.
Deming Arpk.	6 WSW,RR N	4300	31 S4	73 oct.No sto.
Deming (South)	19.5 SSW	4240	60h	Cattle on fld.Clsd, emerg.use only.
Deming (Center)	11.5 W,hwy S	4440	60h	Clsd,emerg.use only
★ Engle Int,10,EO-PU	2.6 E,hwy S	4842	45 R1 L3	
★ Hachita Int,29B, PH-EO	0.8 W,RR N	4498	38 L3	Pole line N.
Hot Springs	7.4 N,hwy E	4500	75 S4	80 oct.Rnwy data unver.
Hurley	0.8 W,RR E	5748	33 S4	73 oct.No sto.
Jundt (Strauss)	8.8 ESE,hwy NE.	3709	32 S6	73,80 oct.No sto.Trees E.
Las Cruces (NC)	1 NE,hwy N	3900	35	
Las Cruces, mun.	8.5 W,hwy S	4426	75h	Cattle on fld.
Las Cruces 4,EO-PU	9.5 NE,hwy S	4538	39 L3	Pwr line S, Mtn E.
★ Mt.Riley Int,37,PH-EO	1.8 SE,RR N	4106	36 L2	
Silver City (NC)	11.5 SE,hwy E	5400	54	
State College (Mesilla Park)	1.2 E,RR W	3800	30 S6	73 oct.No sto.
Tularosa (NC)	2.2 N,RR W	4550	25	Use strips only.
Valley (Berino)	1 ENE,hwy W	3825	34 S1	73 oct,50' hi-line E.
Whitehill (Silver City)	4 SSE	5800	30	Poleline N.Rnwy data unver.
	TEXAS			
Allison Ranch (Marfa)	23.4 SW,hwy E	5100	49 S1	73 oct.
(A) Aragon #5 (Marfa)	9 WNW,RR, N	4880	60h	INACTIVE. Hwy N(A)
(A) Biggs (El Paso)(A)	6 NE,RR W	3937	96h R3 L5 S6	73,91,100 oct.JP-1.No range.
Blair Ranch (Marathon (NC)	23.5 SSW,hwy E	4180	24	PRIVATE.
Castolon (NC)	0.8 NNW,riv SW	2300	16	High butte 1/2 mi E.
Cox Ranch (Longfellow) (NC)	8.4 WSW,RR S	3700	48	PRIVATE.
Decker Ranch (Candelaria) (NC)	11.5 N	3650	29	PRIVATE.
Del Rio	1.5 WNW,hwy E	1000	30 S4	80 oct.No sto.Poles N.
Dryden Airdrome (Dryden) (NC)	1 W	2159	18	
★ Dryden Int,29,EO-PU	5.7 W,hwy N	2300	45h L3	
(N) EL PASO MUN.	4.8 ENE,RR SW	3936	70h R2 L5 S1	73,91,100 oct.No sto. ARPT OF ENTRY.
Johnson Ranch (Castolon)	10.7 SE,riv SW	2092	37	
(A) Laughlin (Del Rio)	7 E,hwy N	1069	67h	INACTIVE. (A)
Marathon	0.7 SE,RR N	4039	44 S1	80 oct.Cattle on fld.
(A) Marfa AAF (A)	9 ESE,RR N	4885	75h	INACTIVE.
Marfa Mun. (new)	4 N,hwy E	4835	53h	
Marfa Mun. (old)	2 NE,hwy,RR S	4780	44 S4	73 oct.No sto.Poleline
Presidio (NC)	4 N,hwy W	2850	48	NOT MNTND. S, SW.
Presidio Air Strip	0.8 NE,RR S	2580	21	PRIVATE. (NC)
(A) Ryan #3 (Marfa)(A)	19 WNW,RR NE	4750	60h	INACTIVE.
Sanderson Landing Strip (NC)	2 W,RR N	2900	24	PRIVATE.
(A) South #1 (Marfa)(A)	15 SE	4825	60h	INACTIVE.
Starns (Alpine)	2.1 NW,RR E	4481	42 S6	80 oct.No sto.
Terlingua (NC)	2 E,hwy SW	2700	36	
Val Verde Co. (Del Rio)	4.5 ENE,RR S	1094	49h	
Yoas Ranch (Longfellow)(NC)	6.5 WSW,RR N	3675	36	PRIVATE.Pole line NW.

h-hard surfaced runways, R-radio facilities, L-lighting facilities, S-servicing. (See page XIII) NC-(not charted). → New or revised data

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
CARLSBAD	311(DKB)	MRLW;322°,3.5	
ROSWELL (Army)	305 (DEH)	SBMRAZ	(3); 126.18
Roswell AAF	396 (126.18)	CA;255°, 3.6	(3); 126.18
TEXAS			
GUADALUPE PASS	(116.1)	VP	(4); 116.1
GUADALUPE PASS FM	(-)	FM, 79°, 17.4	Salt Flat
HUECO MOUNTAIN FM	(-)	FM, 77°, 18	El Paso
SALT FLAT (Int.)	335(DN)(116.1)	BMRLPZ-VDT;162° 2.7	(4); 116.1

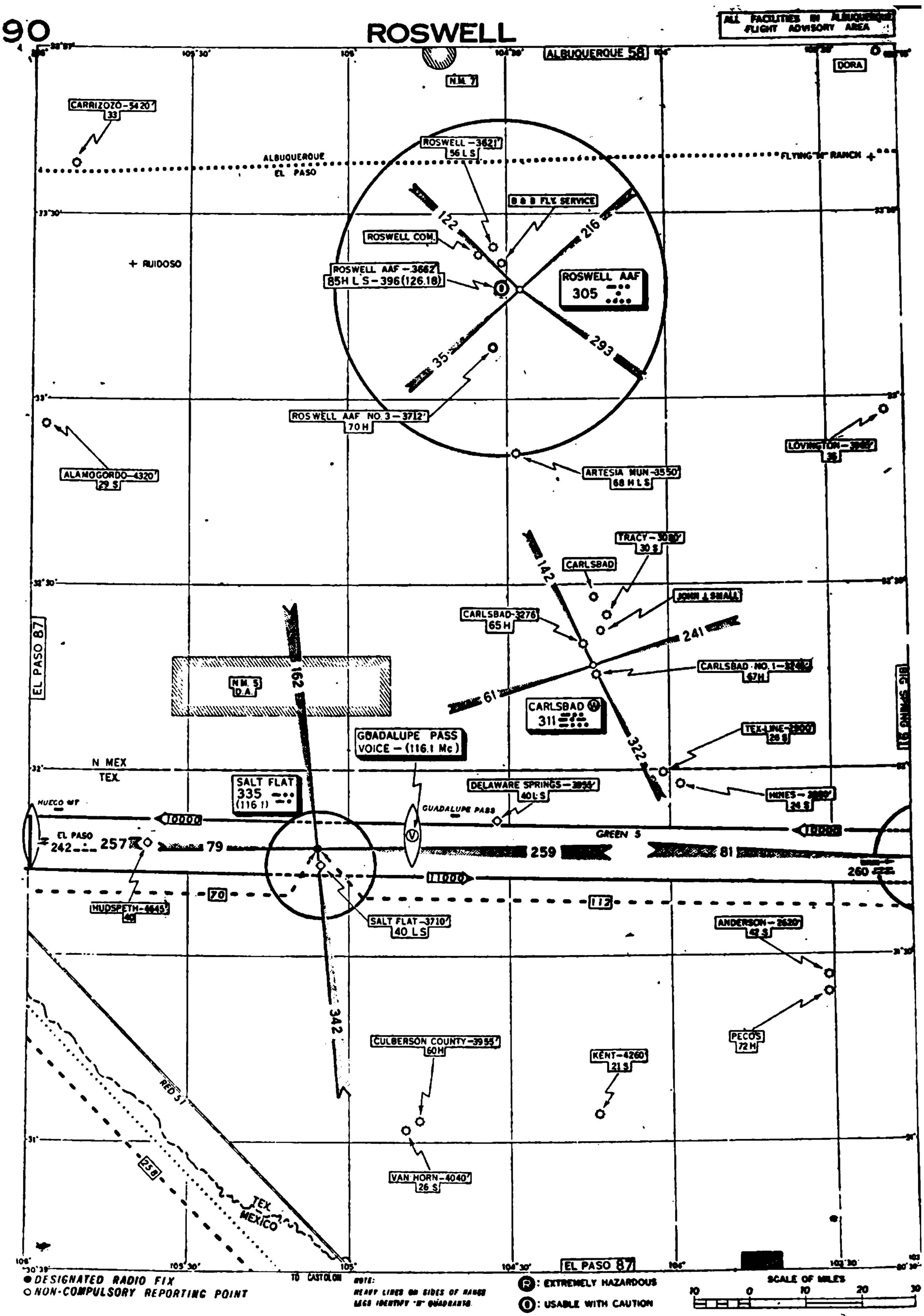
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station-Location Marker at Range Station: (3)-3105, 4495, 6210 kcs.; (4)-3105, 4495, 6210, 3117.5 kcs.) Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — NEW MEXICO

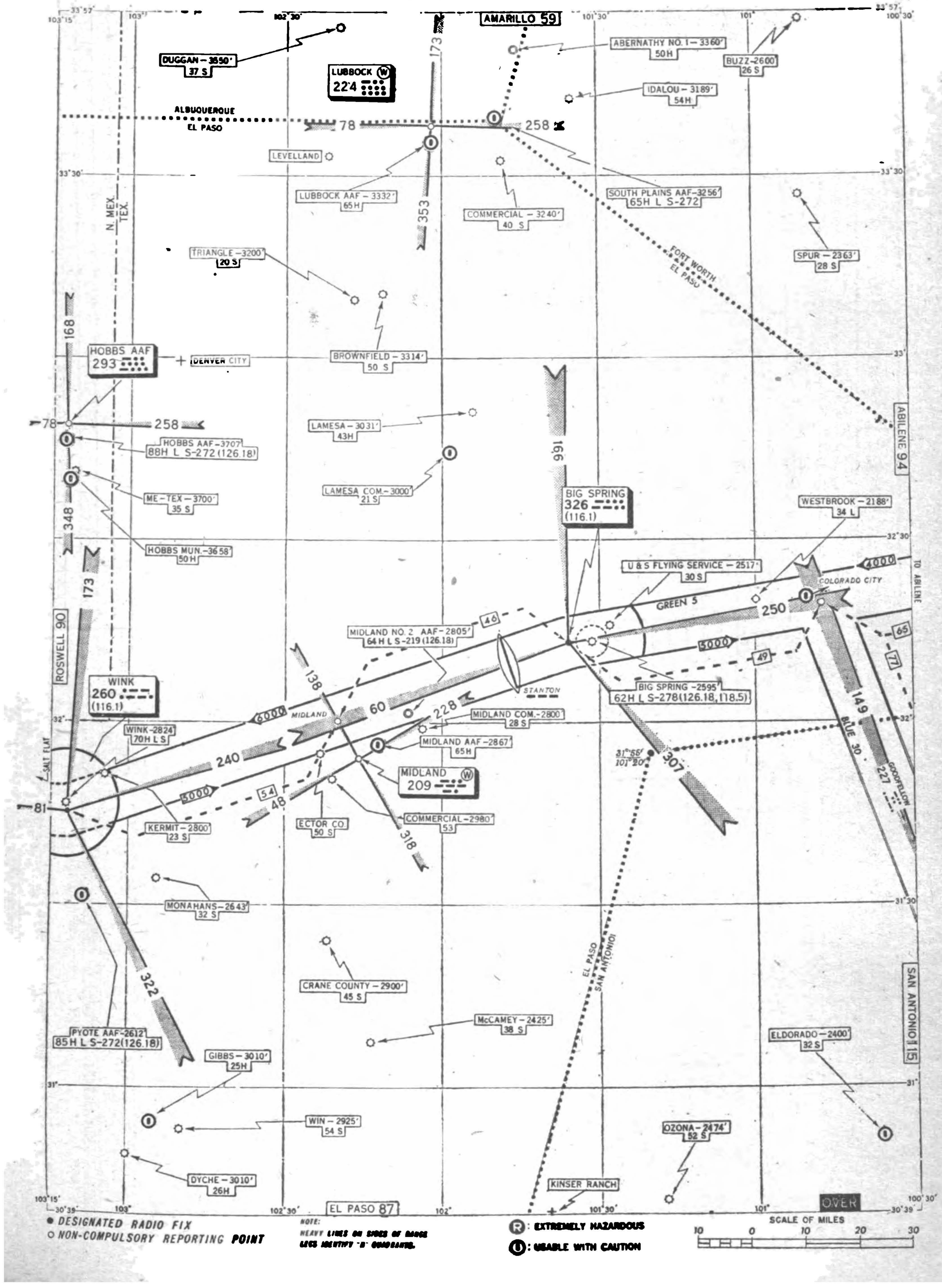
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alamogordo	2.4 N,hwy W	4320	29 S1	73 oct.Poleline ESE.
(P) Artesia Mun.	4.2 W,rd S	3550	69h L5 S1	73-91 oct.
B&B Flying Service (Roswell)	2 S,RR E	3600	32 S2	80 oct.
CARLSBAD MUN.	6.1 SSW,	3276	65h	Hwy E.
Carlsbad	3 N,RR E	3100	38 S2	80 oct.
Carlsbad #1	11 S,hwy 3 W	3245	67h	
Carrizozo	0.6 N,hwy S	5420	33	
Dora (NC)	1.3 E,hwy W	4000	27 S1	73 oct.Pole line N.
Flying "M" Ranch (Milnesand)	0.4 NNW, hwy E	4360	20 S2	80 oct.Data unver.
John J. Small (Carlsbad)	3.5 SSE,RR NE	3150	27 S1	73 oct.
Lovington	0.8 E,hwy S	3985	36	Pole line S,SE,SW.
Parker (Ruidoso) (NC)	8.2 NNE,	7200	36	Cattle on fld. Road N.
→ ROSWELL	1.6 WNW,	3621	56 L5 S6	73 oct.Fld lgts prior request. RR E
Roswell Com.	4 W,hwy N	3700	33	Windmill SW.
→ (A) Roswell AAF (A)	6.5 S	3662	85h R2 L5 S6	91,100 oct.No sto.
(A) Roswell AAF #3 (A)	18 S	3712	70h	INACTIVE.
Ruidoso Flying Svc.	2 N	6900	51 S2	80 oct.Data unver.
Tracy (Carlsbad)	2 ENE,hwy S	3080	30 S6	80 oct.
TEXAS				
Anderson (Pecos)	1.8 NNW,RR W	2620	42 S6	80 oct.Poles sur fld.
(P) Culberson Co.(Van Horn)	3.5 ENE,RR S	3955	60h	
★ Delaware Springs Int. 11, DO-FV	16.8 E Pine Springs	3955	40 L3 S1	91 oct.Pole line SSE.
Fort Hancock (NC)	0.7 SE,RR N	3565	24	Pole line N.
Hines (Red Bluff Lake)	5.5 NNW,RR W	2800	24 S1	80 oct.
(★) Hudspeth Int,4,EO-FV	48.5 E El Paso	4645	40 L1	
Kent	0.6 WNW, RR S	4260	21	Pole line NE,SW.PRIV
Pecos	2.2 SSW	2617	72h	RR W
★ Salt Flat Int,8A,EO-FV	80 E El Paso	3710	40 R1 L3 S1	80 oct.;91 oct. in emerg
Sierra Blanca (NC)	2.8 ESE	4450	21	Pole line N.Hwy N.
Tex-Line (Orla)	13.7 NNW	2900	26 S1	Ltd 80 oct. Hwy W.
Van Horn	0.8 SE,RR N	4040	26 S1	80 oct.Poles NW.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page X111) NC-(not charted). → New or revised data

ROSWELL


ALL FACILITIES IN ALBUQUERQUE FLIGHT ADVISORY AREA
ALBUQUERQUE 58
DORA
N.M. 7
CARRIZOZO-5420'
33
ROSWELL-3621'
56 L S
ALBUQUERQUE
EL PASO
FLYING "H" RANCH
B & B FLY SERVICE
122
216
ROSWELL COM.
+ RUIDOSO
ROSWELL AAF-3662'
85H L S-396(126.18)
ROSWELL AAF
305
293
35
ROSWELL AAF NO. 3-3712'
70 H
ALAMOGORDO-4320'
29 S
ARTESIA MUN-3550'
68 H L S
LOVINGTON-3987'
35
TRACY-3080'
30 S
142
CARLSBAD
JOHN J SHALL
CARLSBAD-3276'
65 H
241
CARLSBAD NO. 1-3240'
67H
EL PASO 87
NM 5
D.A.
162
61
CARLSBAD
311
322
BIG SPRING 91
TEX-LINE-3900'
26 S
GUADALUPE PASS
VOICE-(116.1 Mc)
N MEX
TEX
SALT FLAT
335
(116.1)
DELAWARE SPRINGS-3954'
40 L S
HINES-3880'
24 S
HUECO WP
GUADALUPE PASS
10000
GREEN 5
EL PASO
242
257
79
259
81
260
11000
70
112
HUDSPETH-4645'
40
SALT FLAT-3710'
40 L S
ANDERSON-2620'
42 S
342
CULBERSON COUNTY-3955'
60H
KENT-4260'
21 S
PECOS
72 H
RED 51
258
TEX
MEXICO
VAN HORN-4040'
26 S
TO CASTOLON
EL PASO 87
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "R" QUADRANTS
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
30 0 10 20 30

BIG SPRING



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF BOOK LESS IDENTIFY "B" BOUNDARIES.

(R): EXTREMELY HAZARDOUS
(U): USABLE WITH CAUTION

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
HOBBS (Army)	293 (DHB)	BMRLZ	(3) (V, 7-2300)
Hobbs AAF	272 (126.18)	CA; 168°, 2.8	(3);126.18 (7-23)
TEXAS			
→ **BIG SPRING**	**326(BZ)(116.1)**	**SBRAZ-VDT**	**(3); 116.1**
Big Spring Arpt.	**278 (126.18)**	**C; 70°, 3.9**	**(4); 126.18,131.9.Trs. & gds. 118.5 mcs.**
→ **COLORADO CITY FM**	**DECOMMISSIONED**		
LUBBOCK (AAF)	**224 (DHH)**	**MRLWZ; 173°,3.9**	
MIDLAND	**209 (DON)**	**MRLWZ;48°,3.8-AAF**	
Midland No. 2	**219 (126.18)**	**CA**	**(4); 140.58**
PYOTE AAF	**272 (126.18)**	**CA**	**(3); 126.18**
SOUTH PLAINS AAF (Lubbock)	**272**	**CA**	**(3) (8-22)**
STANTON FM	**(- - -)**	**FM, 240°,12**	**Big Spring.**
WINK	**260(WP)(116.1)**	**SBRAZ-VDT,353°,1.2**	**(4); 116.1**

S–Simultaneous Range and Voice; W–Without Voice; Z–VHF Station Location Marker at Range Station; (3)–3105,4495,6210 kcs.; (4)–3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available..

AIRPORTS — NEW MEXICO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Continental (Jal)(NC)	**0.7 W, hwy E**	**3100**	**20**	
(A) HOBBS AAF (A)	**8 NW,RR NE**	**3707**	**88h R2 L5 S4**	**91,100 oct.**
HOBBS MUN.	**5 W,hwy N**	**3658**	**50h L5**	**All lgts prior req.**
(P) Me-Tex (Hobbs)	**4.5 W,hwy N**	**3700**	**35 S6**	**80,87 oct.Pole line N,W,NW.**
TEXAS				
(A) Abernathy #1 (A)	5 ENE	3346	50h	INACTIVE
(P) BIG SPRING	3.3 WSW;RR N	2595	62h R2 L5 S6	80,91,100 oct.
Brownfield	5 E; hwy N	3314	50 S2	80 oct.Poleline N, NE.
Buzz (Roaring Spgs)	2.3 NNE;hwy W	2600	26 S1	73 oct.Poleline S.
Commercial (Lubbock)	3.2 SE;bet hwys	3240	40 S6	73,80 oct.No sto. Use strips.
Commercial (Odessa)	1.9 E; RR N	2980	53 S4	Poleline NE,NNE.
Crane Co.(Crane)	1 NNW;hwy E	2900	45 S1	73 oct.Hi-line S.
Duggan (Littlefield)	1.2 S;RR NE	3550	37 S4	80,91 oct.Pwrline E, NE, SE.
Dyche (Fort Stockton)	9 SW;RR E	3010	26h	Allway area: 4000 x 4000'
Ector County (Odessa)	5 NNW;hwy W	2900	50 S2	80 oct.
Eldorado	1 W;RR E	2400	32 S1	80 oct. Poles E. Livestock on fld.
Gibbs (Fort Stockton)	2.7 NNW	3010	25h	Allway area: 4800 x 5000'.

h–hard surfaced runways. R–radio facilities. L–lighting facilities. S–servicing. (see page XIII) NC–(not charted). → NEW OR REVISED DATA.

TEXAS

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Idalou	5.5 ENE	3189	54h	
Iraan (NC)	5 NW	2300	26	
Kermit	1.3 E; RR W	2800	23 S1	80 oct.
Kinser Ranch (Ozona)	25 W;riv W	2474	24 S1	80 oct.PRIVATE. Data unverified.
Lamesa	8.9 NNE;hwy E	3031	43h	
Lamesa Commercial	1.8 WNW;hwy S	3000	21 S1	73 oct.Pole line SSE.
Levelland	2 S;hwy W	3550	25 S1	80 oct.Poleline NW, SW.
(A) Lubbock AAF (A)	9 W;RR S	3332	65h	INACTIVE.
McCamey	0.8 SW;RR N	2425	38 S6	80 oct.Hi-line SSE.
(A) Midland AAF (A)	9.5 WSW;RR S	2867	65h	INACTIVE.
Midland Commercial	1.1 SSE;RR N	2800	28 S4	80 oct.No sto.Rnwy data unverified.
(A,N) Midland #2 (A)	3 NW; rd E	2805	64h R1 L5 S4	91, 100 oct. JP-1. No sto.
Monahans	1.2 SW;RR N	2643	32 S2	80 oct.Pole line SSW.
Ozona	4.9 WSW;hwy N	2474	52 S1	80 oct.
(A) Pyote AAF (A)	1 SW;RR N	2612	85h R1 L5 S6	91, 100 oct. No sto.
Rita Santa (NC)	0.5 S;RR N	2800	40	Obsts sur fld.
(A) SOUTH PLAINS AAF (Lubbock)	5.5 NNE;RR W	3256	65h R1 L5 S6	73, 91, 100 oct.
Spur	2.2 S;RR N	2363	28 S4	80, 91 oct.
Triangle (Brownfld)	1.8 SSW;RR NW	3200	20 S2	73 oct.
U & S Flying Service (Big Spring)	1.5 N;hwy S	2517	30 S6	**80 oct.**
★ **West** Brook Int,32, EO-FV	1.3 S;RR N	2188	34 L3	**Pole line N, S.**
Win (Ft. Stockton)	3.2 E;hwy N	2925	54 S6	80 oct.
→ Wink	3.6 WNW;rd SE	2824	70h R1 L5 S6	80,91 oct.
→ Denver City (Tex.)	0.5 NW	3584	40 S1	80 oct.Data unver.

ABILENE

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ABILENE	379(AP)(116.1)	SBRAZ-VDT	(3)· 116.1
→Abilene Air Term.	278 (118.7)	C; 180°, 2.3	(4); 118.7,126.18, 131.9
CLARENDON	233(CP)(116.1)	BMRL-VDT,199°,2	(4); 116.1
HARPERSVILLE (Int.)	284(HV)(116.1)	MHVT	(4); 116.1
→SHEPPARD/KELL MUN.ARPT.(Wichita Falls)	201 (126.18)	CA	(4). 126.18 (730-2330)
WICHITA FALLS (Sheppard/Kell Mun. Airport)	239(WF)(116.1)	SBMRAZ-VDT,301°, 1.9	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Altus	3.4 ENE;hwy S	1368	60h	
Altus, mun.	4.2 N,RR W	1410	31 S6	73,80 oct.Polelines W.
Archer (Cheyenne)	1.2 SW,hwy E	1945	9 S4	No fuel
Bennett (Elk City)	2 SSE,RR NE	1800	20 S1	73 oct.Poleline W.Lgt acft only.
Cameron College (Lawton)	2.5 W,RR N	1108	20 S4	80 oct.
Clinton	17 SW,hwy E	1932	65h	
Cordell	1.3 NW,RR E	1550	20 S1	80 oct.
Delhi	2.5 ENE,hwySW	1937	50	
★ Dill Int,14,AQ-LS	0.5 NW,hwy N	1876	26 L3	Poleline N, E.
Dukes(Carnegie)	1 NNW,riv S	1250	26 S1	80 oct.Poleline S.
Frederick,mun.	2.3 WSW,RR SE	1285	26 S6	73 oct.
Frederick	3.5 SSE	1233	60h	
Grandfield	1.2 SE,RR N	1100	13 S1	73 oct.
Grandfield #3	3.1 W,RR NE	1128	45h	
Haddock (Erick)	1.4 SW,RR N	2017	34 S1	80 oct.Poleline N,NW.
(P) Hobart	3.8 SE,RR N	1583	53h	
Hobart, mun.	1.5 SW,RR NW	1531	19 S6	73 oct.
Olustee(Altus)	10 SE,riv E	1338	45h	
Ponder (Mangum)	1.6 N,hwy S	1585	26 S2	73, 80 oct.
Roosevelt	0.5 NW,rd N	1400	24 S1	80 oct.Pwr line N.
Sayre	2.3 N,hwy W	1990	26 S4	80 oct.
Sentinel Memorial	0.8 SSW,RR W	1600	24 S1	73 oct.
Spradlin(Hollis)	1 N,hwy S	1720	26 S2	80 oct
Victory (Altus)	7.2 NW,riv E	1400	45h	
Walker (Altus)	1.6 W,RR E	1400	26 S4	80 oct.Poleline N.
Weatherford	2.7 ENE,RR S	1550	27 S2	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) NC-(not charted). → NEW OR REVISED DATA.

TEXAS

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) ABILENE AIR TERMINAL	2.8 ESE,RR N	1758	36h R2 L5 S6	73,80,91,100 oct.
(A) Abilene AAF (A)	7 WSW,hwy N	1780	50h	INACTIVE.
Anson	0.8 ENE,RR W	1650	21	
Arledge(Stamford)	5 SE,RR SW	1600	23h	Pole line S.
★ Arlie Int,9,AQ-FV	3.8 SW,hwy SE	1770	42 L3	
(P) Avenger(Sweetwater)	3.5 W,RR S	2370	62h L5 S1	80 oct.
Baird	3.1 NNE,hwy W	1710	24 S6	73, 80 oct.
Breckenridge	2.5 S,RR E	1250	29 S6	80 oct.
Burkburnett	1 SE,RR SW	1000	24 S2	80 oct.Poles E.
Childress	3.2 ESE,RR NE	1930	30 S4	73,80 oct.Poleline sur. field.
(A) Childress AAF(A)	5.2 W,RR N	1952	60h	INACTIVE.
Cisco	2.5 NNW,lake 2 N	1620	30 S6	80 oct.
Clarendon 4,AQ-FV	3.8 W,RR NE	2869	40 R1 L3 S6	80, 91 oct.
Commercial(Quanah)	1.8 S,hwy E,N	1568	21 S2	Ltd 80 oct.
Electra	3.6 WNW,RR S	1229	27 S2	80 oct.
Gilchrist (Wichita Falls)	7 WNW,RR S	1020	30 S1	80 oct.Pwrline S.
★ Harpersville Int,44, EO-FV	9.2 S of Breckenridge	1396	45 R1 L3	
Holman (Wichita Falls)	3.1 SSE,hwy W	980	31 L S6	80,91 oct.Poles SE, E, NE.
Knox City	0.8 SSE,RR W	1550	17	
(P) Olney	4 WSW,rd S,N	1274	55h S4	80, 91 oct.
Paducah	2.5 ESE,RR NW	1800	23	
Pampa	1 NNE,RR S	3234	50 S6	80,91 oct.Poleline S.
(A) Pampa AAF (A)	12.3 E	3124	65h	INACTIVE.
★ Pampa Int,4,AQ-KC	1.9 NE,RR S	3197	50 L3 S1	80, 91 oct.
Ranger	1.5 SSW,RR W	1420	28 S6	80 oct.Poleline NE.
Seymour	1.3 SE,riv SW	1300	27 S1	80 oct.
(A) SHEPPARD/KELL MUN.(Wichita Falls)	5.8 N,hwy W	1028	66h R2 L5 S6	80, 91 oct.
Spur	2.2 S,RR N	2363	28 S4	80, 91 oct.
Stamford	2.5 N,hwy E	1609	24 S2	80 oct.
Taylor (Albany)	1 N,RR SW	1429	28 S2	80 oct.
★ Twitty Int,8A,AQ-LS	1 SE,hwy W	2225	38 L3	
Vernon	5 N,hwy E	1250	43h S6	73, 80 oct.No sto.
★ Vernon Int,15,AQ-FV	8.8 NNW,hwy E	1332	32 L3	
Victory (Vernon)	5.9 SSW,hwy E	1230	20h S2	No fuel.
Weaver (Eastland)	1 NE,RR S	1576	31 S6	80 oct.
Wellington	1 SE,hwy W	2100	17 S1	80 oct.Pole line S.

RADIO — NEW MEXICO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
HOBBS (Army)	293 (DHB)	BMRLZ	(3) (V, 7-2300)
Hobbs AAF	272 (126.18)	CA; 168°, 2.8	(3);126.18 (7-23)
TEXAS			
→ BIG SPRING	326(BZ)(116.1)	SBRAZ-VDT	(3); 116.1
Big Spring Arpt.	278 (126.18)	C; 70°, 3.9	(4); 126.18,131.9. Trs. & gds. 118.5 mcs.
→ COLORADO CITY FM	DECOMMISSIONED		
LUBBOCK (AAF)	224 (DHH)	MRLWZ; 173°,3.9	
MIDLAND	209 (DON)	MRLWZ;48°,3.8-AAF	
Midland No. 2	219 (126.18)	CA	(4); 140.58
PYOTE AAF	272 (126.18)	CA	(3); 126.18
SOUTH PLAINS AAF (Lubbock)	272	CA	(3) (8-22)
STANTON FM	(- - -)	FM, 240°,12	Big Spring.
WINK	260(WP)(116.1)	SBRAZ-VDT,353°,1.2	(4); 116.1

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available..

AIRPORTS — NEW MEXICO

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Continental (Jal)(NC)	0.7 W, hwy E	3100	20	
(A) HOBBS AAF (A)	8 NW,RR NE	3707	88h R2 L5 S4	91,100 oct.
HOBBS MUN.	5 W,hwy N	3658	50h L5	All lgts prior req.
(P) Me-Tex (Hobbs)	4.5 W,hwy N	3700	35 S6	80,87 oct.Pole line N,W,NW.
TEXAS				
(A) Abernathy #1 (A)	5 ENE	3346	50h	INACTIVE
(P) BIG SPRING	3.3 WSW;RR N	2595	62h R2 L5 S6	80,91,100 oct.
Brownfield	5 E; hwy N	3314	50 S2	80 oct.Poleline N, NE.
Buzz (Roaring Spgs)	2.3 NNE;hwy W	2600	26 S1	73 oct.Poleline S.
Commercial (Lubbock)	3.2 SE;bet hwys	3240	40 S6	73,80 oct.No sto. Use strips.
Commercial (Odessa)	1.9 E; RR N	2980	53 S4	Poleline NE,NNE.
Crane Co.(Crane)	1 NNW;hwy E	2900	45 S1	73 oct.Hi-line S.
Duggan (Littlefield)	1.2 S;RR NE	3550	37 S4	80,91 oct.Pwrline E, NE, SE.
Dyche (Fort Stockton)	9 SW;RR E	3010	26h	Allway area: 4000 x 4000'
Ector County (Odessa)	5 NNW;hwy W	2900	50 S2	80 oct.
Eldorado	1 W;RR E	2400	32 S1	80 oct. Poles E. Livestock on fld.
Gibbs (Fort Stockton)	2.7 NNW	3010	25h	Allway area: 4800 x 5000'.

TEXAS

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Idalou	5.5 ENE	3189	54h	
Iraan (NC)	5 NW	2300	26	
Kermit	1.3 E;RR W	2800	23 S1	80 oct.
Kinser Ranch (Ozona)	25 W;riv W	2474	24 S1	80 oct.PRIVATE. Data unverified.
Lamesa	8.9 NNE;hwy E	3031	43h	
Lamesa Commercial	1.8 WNW;hwy S	3000	21 S1	73 oct.Pole line SSE.
Levelland	2 S;hwy W	3550	25 S1	80 oct.Poleline NW, SW.
(A) Lubbock AAF (A)	9 W;RR S	3332	65h	INACTIVE.
McCamey	0.8 SW;RR N	2425	38 S6	80 oct.Hi-line SSE.
(A) Midland AAF (A)	9.5 WSW;RR S	2867	65h	INACTIVE.
Midland Commercial	1.1 SSE;RR N	2800	28 S4	80 oct.No sto.Rnwy data unverified.
(A,N) Midland #2 (A)	3 NW; rd E	2805	64h R1 L5 S4	91, 100 oct. JP-1. No sto.
Monahans	1.2 SW;RR N	2643	32 S2	80 oct.Pole line SSW.
Ozona	4.9 WSW;hwy N	2474	52 S1	80 oct.
(A) Pyote AAF (A)	1 SW;RR N	2612	85h R1 L5 S6	91, 100 oct. No sto.
Rita Santa (NC)	0.5 S;RR N	2800	40	Obsts sur fld.
(A) SOUTH PLAINS AAF (Lubbock)	5.5 NNE;RR W	3256	65h R1 L5 S6	73, 91, 100 oct.
Spur	2.2 S;RR N	2363	28 S4	80, 91 oct.
Triangle (Brownfld)	1.8 SSW;RR NW	3200	20 S2	73 oct.
U & S Flying Service (Big Spring)	1.5 N;hwy S	2517	30 S6	80 oct.
★ West Brook Int,32, EO-FV	1.3 S;RR N	2188	34 L3	Pole line N, S.
Win (Ft. Stockton)	3.2 E;hwy N	2925	54 S6	80 oct.
→ Wink	3.6 WNW;rd SE	2824	70h R1 L5 S6	80,91 oct.
→ Denver City (Tex.)	0.5 NW	3584	40 S1	80 oct.Data unver.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) NC-(not charted). → NEW OR REVISED DATA.

ABILENE

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ABILENE	379(AP)(116.1)	SBRAZ-VDT	(3)· 116.1
→Abilene Air Term.	278 (118.7)	C; 180°, 2.3	(4); 118.7,126.18, 131.9
CLARENDON	233(CP)(116.1)	BMRL-VDT,199°,2	(4); 116.1
HARPERSVILLE (Int.)	284(HV)(116.1)	MHVT	(4); 116.1
→SHEPPARD/KELL MUN.ARPT.(Wichita Falls)	201 (126.18)	CA	(4). 126.18 (730-2330)
WICHITA FALLS (Sheppard/Kell Mun. Airport)	239(WF)(116.1)	SBMRAZ-VDT,301°, 1.9	(4); 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — OKLAHOMA

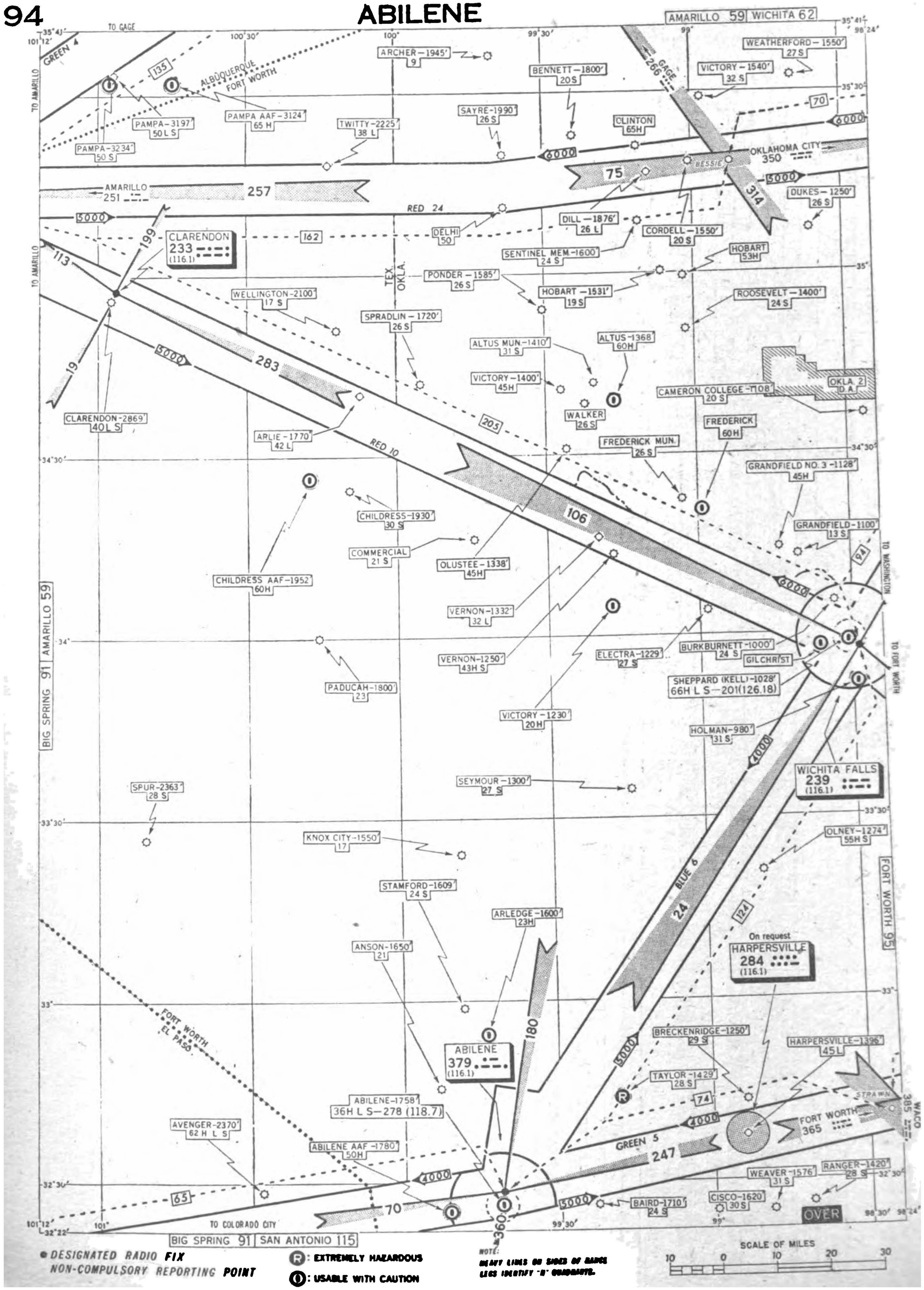
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Altus	3.4 ENE,hwy S	1368	60h	
Altus, mun.	4.2 N,RR W	1410	31 S6	73,80 oct.Polelines W.
Archer (Cheyenne)	1.2 SW,hwy E	1945	9 S4	No fuel
Bennett (Elk City)	2 SSE,RR NE	1800	20 S1	73 oct.Poleline W.Lgt acft only.
Cameron College (Lawton)	2.5 W,RR N	1108	20 S4	80 oct.
Clinton	17 SW,hwy E	1932	65h	
Cordell	1.3 NW,RR E	1550	20 S1	80 oct.
Delhi	2.5 ENE,hwySW	1937	50	
★ Dill Int,14,AQ-LS	0.5 NW,hwy N	1876	26 L3	Poleline N, E.
Dukes(Carnegie)	1 NNW,riv S	1250	26 S1	80 oct.Poleline S.
Frederick,mun.	2.3 WSW,RR SE	1285	26 S6	73 oct.
Frederick	3.5 SSE	1233	60h	
Grandfield	1.2 SE,RR N	1100	13 S1	73 oct.
Grandfield #3	3.1 W,RR NE	1128	45h	
Haddock (Erick)	1.4 SW,RR N	2017	34 S1	80 oct.Poleline N,NW.
(P) Hobart	3.8 SE,RR N	1583	53h	
Hobart, mun.	1.5 SW,RR NW	1531	19 S6	73 oct.
Olustee(Altus)	10 SE,riv E	1338	45h	
Ponder (Mangum)	1.6 N,hwy S	1585	26 S2	73, 80 oct.
Roosevelt	0.5 NW,rd N	1400	24 S1	80 oct.Pwr line N.
Sayre	2.3 N,hwy W	1990	26 S4	80 oct.
Sentinel Memorial	0.8 SSW,RR W	1600	24 S1	73 oct.
Spradlin(Hollis)	1 N,hwy S	1720	26 S2	80 oct
Victory (Altus)	7.2 NW,riv E	1400	45h	
Walker (Altus)	1.6 W,RR E	1400	26 S4	80 oct.Poleline N.
Weatherford	2.7 ENE,RR S	1550	27 S2	80 oct.

TEXAS

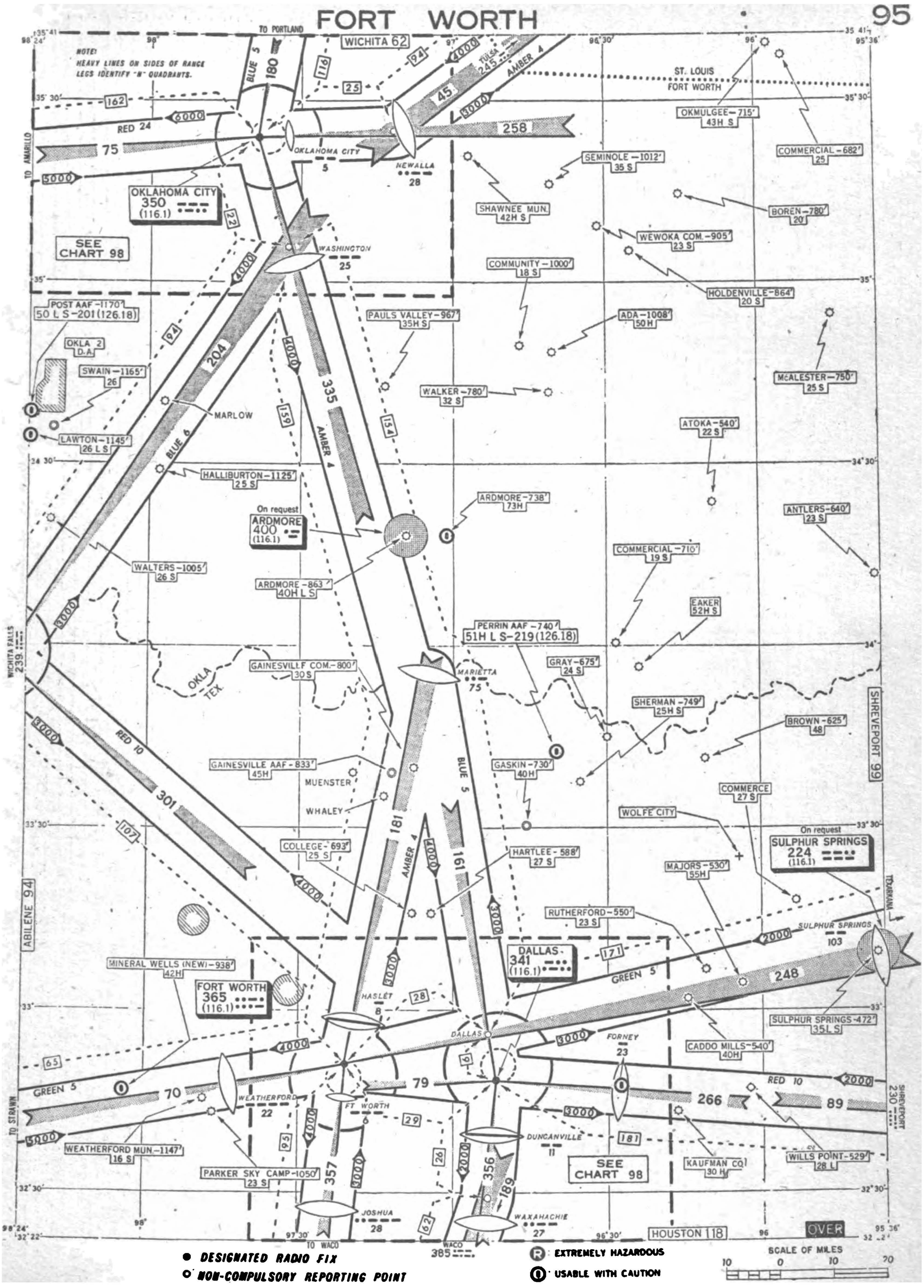
AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(P) ABILENE AIR TERMINAL	2.8 ESE,RR N	1758	36h R2 L5 S6	73,80,91,100 oct.
(A) Abilene AAF (A)	7 WSW,hwy N	1780	50h	INACTIVE.
Anson	0.8 ENE,RR W	1650	21	
Arledge(Stamford)	5 SE,RR SW	1600	23h	Pole line S.
★ Arlie Int,9,AQ-FV	3.8 SW,hwy SE	1770	42 L3	
(P) Avenger(Sweetwater)	3.5 W,RR S	2370	62h L5 S1	80 oct.
Baird	3.1 NNE,hwy W	1710	24 S6	73, 80 oct.
Breckenridge	2.5 S,RR E	1250	29 S6	80 oct.
Burkburnett	1 SE,RR SW	1000	24 S2	80 oct.Poles E.
Childress	3.2 ESE,RR NE	1930	30 S4	73,80 oct.Poleline sur. field.
(A) Childress AAF(A)	5.2 W,RR N	1952	60h	INACTIVE.
Cisco	2.5 NNW,lake 2 N	1620	30 S6	80 oct.
Clarendon 4,AQ-FV	3.8 W,RR NE	2869	40 R1 L3 S6	80, 91 oct.
Commercial(Quanah)	1.8 S,hwy E,N	1568	21 S2	Ltd 80 oct.
Electra	3.6 WNW,RR S	1229	27 S2	80 oct.
Gilchrist (Wichita Falls)	7 WNW,RR S	1020	30 S1	80 oct.Pwrline S.
★ Harpersville Int,44, EO-FV	9.2 S of Breckenridge	1396	45 R1 L3	
Holman (Wichita Falls)	3.1 SSE,hwy W	980	31 L S6	80,91 oct.Poles SE, E, NE.
Knox City	0.8 SSE,RR W	1550	17	
(P) Olney	4 WSW,rd S,N	1274	55h S4	80, 91 oct.
Paducah	2.5 ESE,RR NW	1800	23	
Pampa	1 NNE,RR S	3234	50 S6	80,91 oct.Poleline S.
(A) Pampa AAF (A)	12.3 E	3124	65h	INACTIVE.
★ Pampa Int,4,AQ-KC	1.9 NE,RR S	3197	50 L3 S1	80, 91 oct.
Ranger	1.5 SSW,RR W	1420	28 S6	80 oct.Poleline NE.
Seymour	1.3 SE,riv SW	1300	27 S1	80 oct.
(A) SHEPPARD/KELL MUN.(Wichita Falls)	5.8 N,hwy W	1028	66h R2 L5 S6	80, 91 oct.
Spur	2.2 S,RR N	2363	28 S4	80, 91 oct.
Stamford	2.5 N,hwy E	1609	24 S2	80 oct.
Taylor (Albany)	1 N,RR SW	1429	28 S2	80 oct.
★ Twitty Int,8A,AQ-LS	1 SE,hwy W	2225	38 L3	
Vernon	5 N,hwy E	1250	43h S6	73, 80 oct.No sto.
★ Vernon Int,15,AQ-FV	8.8 NNW,hwy E	1332	32 L3	
Victory (Vernon)	5.9 SSW,hwy E	1230	20h S2	No fuel.
Weaver (Eastland)	1 NE,RR S	1576	31 S6	80 oct.
Wellington	1 SE,hwy W	2100	17 S1	80 oct.Pole line S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) NC-(not charted). → NEW OR REVISED DATA.

ABILENE


AMARILLO 59 WICHITA 62
TO GAGE
GREEN 4
135
ALBUQUERQUE FORT WORTH
PAMPA-3197' 50 L S
PAMPA AAF-3124' 65 H
PAMPA-3234' 50 S
ARCHER-1945' 9
TWITTY-2225' 38 L
SAYRE-1990' 26 S
BENNETT-1800' 20 S
GAGE 266
WEATHERFORD-1550' 27 S
VICTORY-1540' 32 S
70
6000
CLINTON 65H
OKLAHOMA CITY 350
BESSIE
75
314
5000
AMARILLO 251
257
RED 24
DUKES-1250' 26 S
DILL-1876' 26 L
CORDELL-1550' 20 S
DELHI 50
CLARENDON 233 (116.1)
162
199
113
SENTINEL MEM.-1600' 24 S
HOBART 53H
TEX. OKLA.
PONDER-1585' 26 S
HOBART-1531' 19 S
ROOSEVELT-1400' 24 S
WELLINGTON-2100' 17 S
SPRADLIN-1720' 26 S
ALTUS MUN-1410' 31 S
ALTUS-1368' 60H
19
283
VICTORY-1400' 45H
CAMERON COLLEGE-1108' 20 S
OKLA. 2 D.A.
CLARENDON-2869' 40 L S
WALKER 26 S
FREDERICK 60H
ARLIE-1770' 42 L
205
FREDERICK MUN. 26 S
RED 10
GRANDFIELD NO. 3-1128' 45H
106
CHILDRESS-1930' 30 S
GRANDFIELD-1100' 13 S
94
TO WASHINGTON
COMMERCIAL 21 S
OLUSTEE-1338' 45H
CHILDRESS AAF-1952' 60H
VERNON-1332' 32 L
BURKBURNETT-1000' 24 S
GILCHRIST
ELECTRA-1229' 27 S
VERNON-1250' 43H S
SHEPPARD (KELL)-1028' 66H L S—201(126.18)
PADUCAH-1800' 23
VICTORY-1230' 20H
HOLMAN-980' 31 S
TO FORT WORTH
BIG SPRING 91 AMARILLO 59
SPUR-2363' 28 S
SEYMOUR-1300' 27 S
WICHITA FALLS 239 (116.1)
KNOX CITY-1550' 17
OLNEY-1274' 55H S
STAMFORD-1609' 24 S
ARLEDGE-1600' 23H
BLUE 6
24
124
ANSON-1650' 21
On request
HARPERSVILLE 284 (116.1)
FORT WORTH 95
FORT WORTH EL PASO
ABILENE 379 (116.1)
180
BRECKENRIDGE-1250' 29 S
HARPERSVILLE-1396' 45 L
TAYLOR-1429' 28 S
74
STRAWN
WACO 385
ABILENE-1758' 36H L S—278 (118.7)
AVENGER-2370' 62 H L S
ABILENE AAF-1780' 50H
4000
GREEN 5
247
FORT WORTH 365
WEAVER-1576' 31 S
RANGER-1420' 28 S
65
70
BAIRD-1710' 24 S
CISCO-1620' 30 S
OVER
360
TO COLORADO CITY
BIG SPRING 91 SAN ANTONIO 115
SCALE OF MILES
10 0 10 20 30
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
0: USABLE WITH CAUTION
NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "R" QUADRANTS.

FORT WORTH


NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "H" QUADRANTS.
TO PORTLAND
WICHITA 62
TULSA 245
ST. LOUIS
FORT WORTH
TO AMARILLO
OKLAHOMA CITY 350 (116.1)
OKLAHOMA CITY
NEWALLA
SEE CHART 98
WASHINGTON
SHAWNEE MUN. 42H S
SEMINOLE – 1012' 35 S
OKMULGEE – 715' 43H S
COMMERCIAL – 682' 25
BOREN – 780' 20
WEWOKA COM. – 905' 23 S
COMMUNITY – 1000' 18 S
HOLDENVILLE – 864' 20 S
POST AAF – 1170' 50 L S – 201 (126.18)
PAULS VALLEY – 967' 35H S
ADA – 1008' 50H
OKLA 2 D.A.
SWAIN – 1165' 26
MARLOW
WALKER – 780' 32 S
MCALESTER – 750' 25 S
LAWTON – 1145' 26 L S
ATOKA – 540' 22 S
HALLIBURTON – 1125' 25 S
On request
ARDMORE 400 (116.1)
ARDMORE – 738' 73H
ANTLERS – 640' 23 S
COMMERCIAL – 710' 19 S
WALTERS – 1005' 26 S
ARDMORE – 863' 40H L S
EAKER 52H S
PERRIN AAF – 740' 51H L S – 219 (126.18)
WICHITA FALLS 239
GAINESVILLE COM. – 800' 30 S
MARIETTA
GRAY – 675' 24 S
SHERMAN – 749' 25H S
BROWN – 625' 48
SHREVEPORT 99
GAINESVILLE AAF – 833' 45H
MUENSTER
WHALEY
GASKIN – 730' 40H
COMMERCE 27 S
WOLFE CITY
COLLEGE – 693' 25 S
HARTLEE – 588' 27 S
On request
SULPHUR SPRINGS 224 (116.1)
MAJORS – 530' 55H
RUTHERFORD – 550' 23 S
TEXARKANA
SULPHUR SPRINGS 103
ABILENE 94
MINERAL WELLS (NEW) – 938' 42H
FORT WORTH 365 (116.1)
DALLAS 341 (116.1)
HASLET 8
DALLAS
SULPHUR SPRINGS – 472' 35 L S
FORNEY 23
CADDO MILLS – 540' 40H
TO STRAWN
WEATHERFORD 22
FT WORTH
WEATHERFORD MUN. – 1147' 16 S
PARKER SKY CAMP – 1050' 23 S
DUNCANVILLE 11
SEE CHART 98
KAUFMAN CO 30 H
WILLS POINT – 529' 28 L
JOSHUA 28
WAXAHACHIE 27
TO WACO
WACO 385
HOUSTON 118
OVER
SCALE OF MILES
10 0 10 20
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION

RADIO — OKLAHOMA

LOCATION	FREQ. IDENT	STA CLASS. BEAR & DIST	FREQS. GUARDED. HRS OF OPER.. REMARKS
ARDMORE	400 (AT)(116.1)	MHVT	(4), 116.1
MARIETTA FM	(. . -)	FM, 1°, 75	Fort Worth, Texas
NEWALLA FM	(. - -)	FM, 78°, 27.5	Oklahoma City
→ OKLAHOMA CITY (Will Rogers Field)	350 (OL)(116.1)	SBRAZ-VDT.78°,1.6	(3) 116.1
OKLAHOMA CITY LFM	(- -)	LFM, 78°, 5.4	Oklahoma City
POST FIELD (Lawton)	201 (126.18)	CA	(3), 126.18 (7-17 Mon.-Fri.)
WASHINGTON FM	(- - -)	FM, 155°, 24.6	Oklahoma City
TEXAS			
→ DALLAS (Love)	341 (DL)(116.1)	SBMRAZ-VDT,356°2.5	(3); 116.1
DUNCANVILLE FM	(- -)	FM, 176°, 10.5	Dallas
FORNEY FM	(-)	FM, 86°, 23	Dallas
→ FORT WORTH (Meacham Fld)	365 (FV)(116.1)	SBRAZ-VDTX,177°,2.3	(3); 116.1
FORT WORTH-LFM	(- - -)	LFM, 177°, 6.2	Fort Worth
HASLET FM	(-)	FM, 1°, 8.1	Fort Worth
JOSHUA FM	(. - - -)	FM, 177°, 27.7	Fort Worth
→ PERRIN FIELD (Sherman)	219 (126.18)	CA	(3):126.18
→ SULPHUR SPRINGS	224 (ZO)(116.1)	MHVT	(4), 116.1
SULPHUR SPRINGS FM	(- -)	FM, 68°, 103	Fort Worth
WAXAHACHIE FM	(. . - -)	FM, 176°, 27	Dallas
WEATHERFORD FM	(- - - -)	FM, 250°, 22	Fort Worth

S-Simultaneous Range and Voice W-Without Voice Z-VHF Station Location Marker at Range Station (3)-3105.4495.6210 kcs. (4)-3105.4495.6210.3117.5 kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — OKLAHOMA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Ada	2 N, RR SW	1008	50h	
Antlers	2.8 S,RR E	640	23 S2	80 oct.
Ardmore	11.2 NNE,riv E	738	73h	CAUTION: Intensive airline training.
Ardmore 10, FV-WD	9.2 N,hwy E	863	40h R1 L3 S6	80, 91 oct. Poles E.
Atoka	1.8 NW,RR S	540	22 S2	73 oct. Pole line S.
Boren (Wetumka)	1.5 NW,hwy S	780	20	
Commercial (Durant)	5.2 W,RR N	710	19 S2	73 oct. Rnwy data unverified.
Commercial (Okmulgee)	3.4 E,RR N	682	25 S2	Ltd 73 oct. Poles SW.
Community (Ada)	6.8 WNW,RR NE	1000	18 S6	80 oct.
(P) Eaker (Durant)	3.2 SSW,RR NW	703	52h L5 S1	80, 91 oct. All lgts prior req.
Halliburton (Duncan)	1 S, RR E	1125	25 L S4	80,88 oct. Range lgts.
Holdenville	1.2 WNW,RR NE	864	20 S2	73 oct. Pole line N.
Lawton	1.5 S,RR E	1145	26 L2 S4	73 oct. Fld lgts prior req. Poles NW.
Marlow	1.6 N,RR E	1150	15	Pole line S.
McAlester	2 SSE,RR W	750	25 S6	80 oct.
(P) Okmulgee	3 NNE,hwy W	715	43h L5 S6	73,80 oct. Ctc lgts prior request.
(P) Pauls Valley	2.1 S,RR E	967	35h L1 S1	80 oct.
(A) Post (Lawton)(A)	3 N	1170	50 R1 L4 S4	73 oct., ltd 100 oct.
Seminole	3.4 NNW,hwy E	1012	35 S2	80 oct. Trees W, NW.
(P) Shawnee	2 NW,RR E	1080	42h L5 S2	80, 91 oct. Fld lgts prior req.
(A) Swain (Lawton)(A)	3.5 E,hwy N	1165	26	
Tishomingo (NC)	7.5 N	890	29	
Walker (Ada)	5.4 S,hwy W	860	32 S6	73, 80 oct. Trees sur fld.
Walters	1.2 SW,RR E	1005	26 S2	73 oct. Cattle on field.
Wewoka, com.	1.8 W,lake N	905	23 S6	80 oct. Pole line NNE.
Wewoka, mun. (NC)	4.7 NE,hwy N	790	30	

TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Bowie (NC)	2.8 NW,bet RRs	1050	19	Cattle on fld. Trees N.
Brown (Bonham)	.8 N,hwy W	625	48	Pole line S, W.
Caddo Mills(Greenv'l)	10.7 SW,hwy W	540	40h	
College (Denton)	4.2 N	693	25 S6	73 oct. Cattle on field.
Commerce	3.4 NNE,hwy SE	548	27 S6	80, 91 oct.
(A) Gainesville AAF (A)	3.8 WNW,RR S	833	45h	
Gainesville com.	3 NNE,hwy W	800	30 L1 S1	80 oct. Poles S.
(A) Gaskin (Sherman)(A)	12.6 SW,rd E	730	40h L	B-2, flood lgts.
Gray (Denison)	2.5 E,RR N	675	24 L S6	80 oct. Emerg.lgts by circling fld.
Hartlee (Denton)	5.4 NE,RR SSE	588	27 S6	73,80 oct. Poles S
Jones (Bonham)(NC)	2 NNE,hwy E	616	18h	
Majors (Greenville)	5 SSE,RR W	530	55h	
(P) Mineral Wells, new	3.2 SE,RR N	938	42h	
Muenster	2.6 E,RR S	1010	26 S1	80 oct. Pole line S.
Parker Sky Camp (Weatherford)	3.4 SSE,RR NW	1050	23 S4	80 oct
(A) Perrin (Sherman)(A)	6.4 NNW,RR N	740	51h R1 L5 S6	73, 91, 100 oct.
Rutherford (Greenv'l)	4.5 WSW,hwy SE	550	23 S3	73 oct. Pole line S.
Sherman	1.4 SE,hwy N	749	25h S6	80 oct.
So.Sulphur (Greenv'l)	9.5 NNE	550	30	(NC)
Sulphur Springs, 7B, DL-LV	1.9 NW,RR S	472	35 R1 L3 S1	80 oct. Pole line S,SE.
Kaufman County (Terrell)	1.5 SE,RR W	490	30h	
Weatherford, mun.	1 W, hwy N	1147	16 S4	80 oct.
Whaley Arpk(Gainesv'l)	5.7 WSW,RR N	820	20 S2	80 oct. Pole line N.
* Wills Point Int,7,FV-AG	5.9 NW	529	28 L3	
Wolfe City	2 N		20 S1	80 oct. Data not verified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

OKLAHOMA CITY–DALLAS–FORT WORTH

RADIO — OKLAHOMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
NEWALLA FM	(. . - -)	FM,78°,27.5	Oklahoma City
OKLAHOMA CITY (Will Rogers Field)	350(OL)(116.1)	SBRAZ-VDT,78°,1.6	(3): 116.1
OKLAHOMA CITY LFM	(- -)	LFM,78°,5.4	Oklahoma City
TINKER, OKLAHOMA CITY (Army)	221 (DTE)	BMRAZ	4495
Tinker Field	396 (126.18)	CA:170°,5.3	(3): 126.18
WILL ROGERS FIELD (Oklahoma City)	272 (126.18)	C	(4): 126.18,131.9
WASHINGTON FM	(- - -)	FM,155°,24.6	Oklahoma City

TEXAS

DALLAS (Love Field)	341(DL)(116.1)	SBMRAZ-VDT,356°,2.5	(3): 116.1
DUNCANVILLE	404 (D)	FMK,176°,10.5	Dallas
DUNCANVILLE FM	(- -)	FM,176°,10.5	Dallas
FORNEY FM	(-)	FM,86°,23	Dallas
FORT WORTH (Meacham Field)	365(FV)(116.1)	SBRAZ-VDTX,177°,2.5	(3): 116.1
Fort Worth AAP	201 (126.18)	CA	(3): 126.18
FORT WORTH LFM	(- - -)	LFM,177°,6.2	Fort Worth
HASLET FM	(-)	FM,1°,8.1	Fort Worth
HASLET	371 (P)	FMK,1°,8.1	Fort Worth
HENSLEY FIELD (Dallas)	396 (126.18)	CA	(4): 126.18
JOSHUA FM	(. . - - -)	FM,177°,27.7	Fort Worth
LOVE FIELD (Dallas)	278 (126.18) (118.9)	AC (ILS)	(4): 118.9,131.9,126.18
MEACHAM FIELD (Fort Worth)	272 (126.18) (118.7)	AC	(4): 142.74,131.9,126.18,118.7
WAXAHACHIE FM	(. . - -)	FM,176°,27	Dallas

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LOVE, TEXAS	110.3		140° Mag.	IM	MM ·--· (.70)	OM -- (4.35)
			360° Mag.		MMK 311 ·--· (.75)	OMK
MEACHAM, TEXAS				IM	MM	OM
			173° Mag.		MMK 356 ···-(.70)	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available. ●

AIRPORTS — OKLAHOMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anadarko	1.5 SW;RR E	1260	20 S1	80 oct.
Bethany (Oklahoma City)	8WNW	1300	44h S6	80,91 oct.Pwr line S.
Bomhoff (Calumet)	4.1 SSE;hwy S	1448	25 S4	73,80,91 oct.
Caddo Flying Ser.(Ft.Cobb)	6 SE;hwy S	1250	16 S2	80 oct.
Chickasha	4 NNW;riv S	1140	37 L S6	80,91 oct.Flood,obst lgts.
Cimarron (Yukon)	4 WSW;hwy N	1350	20h	
El Reno	1.5 SW;RR N	1400	26 L S6	80 oct.Port rnwy lgts.
Geary	1.4 E;RR N	1300	21 S2	73 oct.
Garthwaffner Co. Club (Oklahoma City)	7.3 S;hwy E	1270	19h S6	80 oct.
Lake View (Yukon)(NC)	2.7 E;RR N	1275	24	PRIVATE.Poles N,S.
Lowell (Chickasha)				ABANDONED.
Max Westheimer (Norman)	2.7 NW;RR E	1178	50h S2	80,91 oct.
Mustang (El Reno)	5.3 SSW	1400	52	
Nuckols (Oklahoma City)	7.2 SSW;hwy W	1265	30 S6	80 oct.Poles N,W,SW.

OKLAHOMA

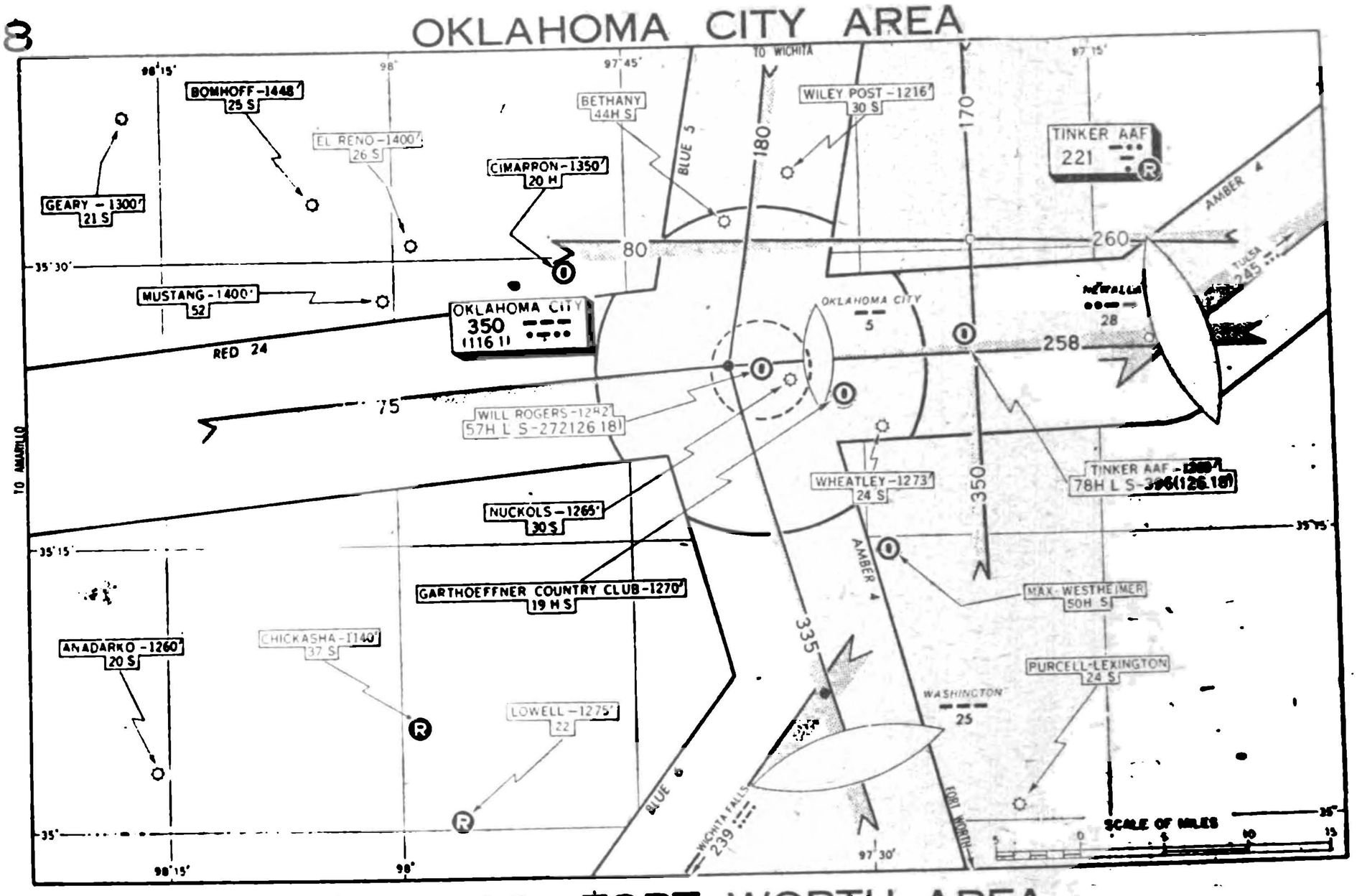
AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Purcell-Lexington (Lexington)	0.8 WSW;riv W	1100	24 S2	80 oct.Trees S,SSW,SSE.
(A,N) Tinker (Oklahoma City)	8.5 SE;RR NE	1269	78h R2 L5 S6	62,91,100 oct.JP-1.MAFC. (A)
Wheatley Airpark (Moore)	0.6 NE;hwy W	1273	24 S6	73 oct.
Wiley Post (Oklahoma City)	7.9 NNW;hwy E	1216	30 S6	80,91 oct.Trees S.
WILL ROGERS (Oklahoma City)	7.5 SW;hwy E	1282	57h R2 L5 S6	80,91,100 oct.

TEXAS

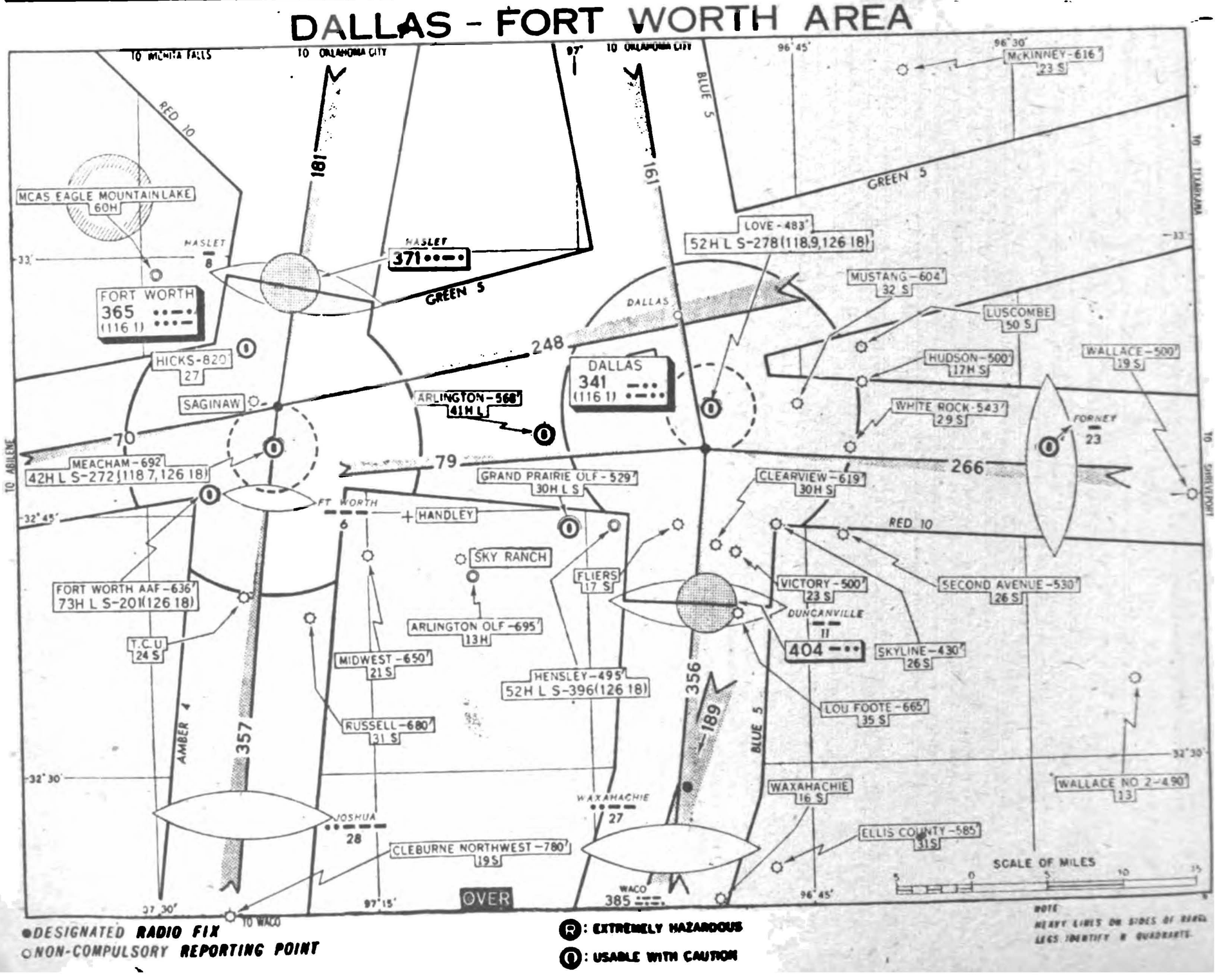
(N) Arlington-Midway	6.8 NNE;RR S	568	41h L5	Poles S.
(N) " OLP (N)	4 SSW;rd W	695	13h	
Clearview (Dallas)	5.1 SSW;RR N	619	30h S6	80,91 oct.
Cleburne Northwest	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(N) Eagle Mtn Lake MCAS (Newark) (N)	1 SSE;RR NE	745	60h	INACTIVE.
Ellis Co. (Waxahachie)	3.5 NE;RR S	585	31 S2	73 oct.Pole line S.
Fliers (Dallas)	6.2 WSW;RR W	580	17 S4	80 oct.No sto.Trees S.
(A) Fort Worth AAP (A)	6.8 WNW;lake N	636	73h R1 L5 S6	73,91,100 oct.JP-1.
(N) Grand Prairie OLP (N)	1 WSW;RR N	529	30h L5 S4	73 oct.No bcn.
Handley	0.6 NE;RR S	630	26 S6	73 oct.
(A,N) Hensley (Dallas)(A)(N)	11 WSW;hwy N	495	52h R1 L5 S4	73,91,100 oct.
Hicks (Fort Worth)	12.5 NNW;1k W	820	27	
Hudson (Dallas)	9.6 NE;RR SE.	500	17h S6	80,91 oct.Pole line W.
Lou Foote (Dallas)	8.8 S;hwy E	665	35 S6	73,80,91 oct. Bldgs N,NE.
LOVE (Dallas)	5 NNW;RR SW	483	52h R3 L6 S6	73-100 oct. Poles S.
Luscombe (Garland)	2.2 WSW;RR N	610	50 S5	80 oct.No storage.
McKinney	2.1 S;hwy W	616	23 S2	80 oct.Poles E,W.
(P) MEACHAM (Fort Worth)	5.5 NNW;hwy NE	692	42h R2 L6 S6	73,80,91,100 oct.
Midwest (Fort Worth)	5.3 ESE;RR NNE	650	21 L S4	80,91 oct.Port rnwy lgts.Pole line W,S.
Mustang (Dallas)	6 NNE;hwy NE	604	32 S6	80,91 oct.
(N) Russell (Fort Worth)	7 SSE;RRs E,W	680	31 S6	80,91 oct.
Second Avenue (Dallas)	7 SE;RR N	530	26 S1	73,80 oct.Use strips.Poles S.
Skyline (Dallas)	3.2 SSE;riv E	430	26 S6	80,91 oct. Trees NW.
T. C. U. (Fort Worth)	6.6 SW;RR S	710	24 S6	80,91 oct.
Victory (Dallas)	4.6 S;hwy W	500	23 S6	73,80 oct.No sto.Pole line E.
Wallace (Terrell)	2 W;RR S	500	19 S2	80 oct.
Wallace #2 (Kaufman)	4 W;hwy N	490	13	
Waxahachie	1.5 SSW;hwys E	558	16 S1	73 oct.
White Rock (Dallas)	6.7 ENE;RR NW	543	29 L S6	91 oct. Port rnwy lgts.
Sky Ranch (Arlington)	3 SW; RR N	590	25 S2	80 oct.
Saginaw	0.5 WNW;RR E	790	26 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

OKLAHOMA CITY AREA



DALLAS - FORT WORTH AREA

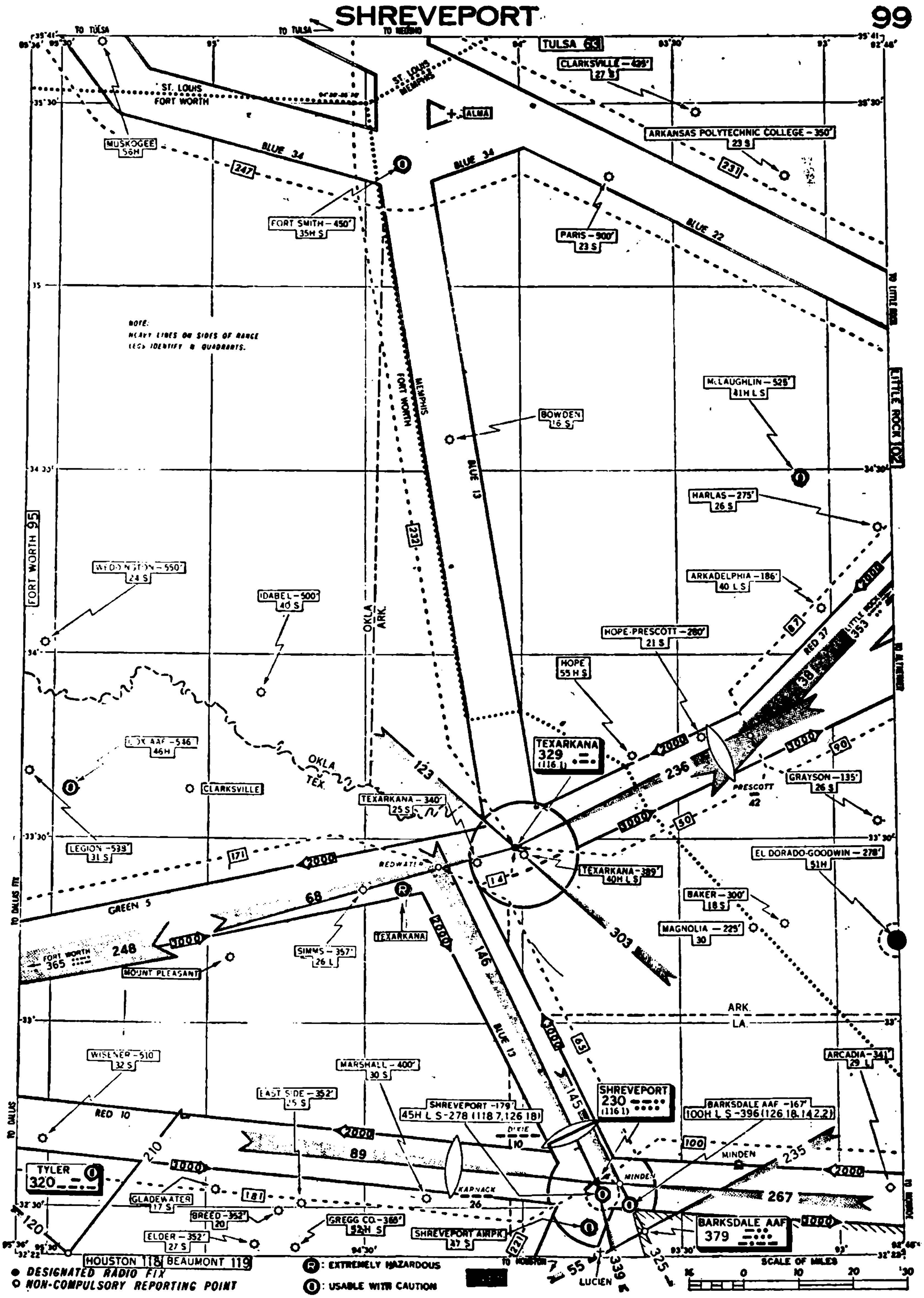


●DESIGNATED RADIO FIX
○NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓤ: USABLE WITH CAUTION

NOTE
HEAVY LINES ON SIDES OF RADIAL LEGS IDENTIFY 8 QUADRANTS.

SHREVEPORT


TO TULSA
TO TULSA
TO NEOSHO
TULSA 63
CLARKSVILLE – 439'
27 S
ST. LOUIS
FORT WORTH
ST. LOUIS
MEMPHIS
ALMA
MUSKOGEE
50H
BLUE 34
247
FORT SMITH – 450'
35H S
BLUE 34
231
ARKANSAS POLYTECHNIC COLLEGE – 350'
23 S
PARIS – 900'
23 S
BLUE 22
TO LITTLE ROCK
NOTE:
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY 8 QUADRANTS.
McLAUGHLIN – 525'
41H L S
BOWDEN
16 S
BLUE 13
FORT WORTH 95
FORT WORTH
MEMPHIS
232
OKLA
ARK.
HARLAS – 275'
26 S
WEDDINGTON – 550'
24 S
IDABEL – 500'
40 S
ARKADELPHIA – 186'
40 L S
HOPE-PRESCOTT – 280'
21 S
HOPE
55 H S
RED 37
353
LITTLE ROCK
TEXARKANA
329
(116.1)
OKLA
TEX
123
CLARKSVILLE
TEXARKANA – 340'
25 S
236
PRESCOTT
42
GRAYSON – 135'
26 S
LEGION – 539'
31 S
171
REDWATER
TEXARKANA – 389'
40H L S
EL DORADO-GOODWIN – 278'
51H
TO DALLAS
GREEN 5
68
TEXARKANA
BAKER – 300'
18 S
303
MAGNOLIA – 225'
30
FORT WORTH
365
248
MOUNT PLEASANT
SIMMS – 357'
26 L
146
ARK.
LA.
WISENER – 510
32 S
MARSHALL – 400'
30 S
EAST SIDE – 352'
25 S
SHREVEPORT – 179'
45H L S – 278 (118.7, 126.18)
SHREVEPORT
230
(116.1)
BARKSDALE AAF – 167'
100H L S – 396 (126.18, 142.2)
ARCADIA – 341'
29 L
RED 10
89
DIXIE
10
MINDEN
235
TYLER
320
GLADEWATER
17 S
KARNACK
26
267
BREED – 352'
20
GREGG CO. – 368'
52H S
SHREVEPORT AIRPK
27 S
BARKSDALE AAF
379
ELDER – 352'
27 S
TO DALLAS
TO HOUSTON
LUCIEN
HOUSTON 118
BEAUMONT 119
SCALE OF MILES
16 0 10 20 30
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
PRESCOTT FM	(-)	FM, 56°, 42	Texarkana
TEXARKANA	329(TR)(116.1)	SBRAZ-VDT,123°,2	(4); 116.1
LOUISIANA			
→BARKSDALE(Shreveport)(Army)	379 (DBY)	SMRAZ	(3)
Barksdale Field	396(126.18,142.2)	CA(ILS);325°,4.4	(3); 126.18,142.2
DIXIE FM	(- - - -)	FM, 326°, 10.2	Shreveport
→SHREVEPORT	230(ZH)(116.1)	SBRAZ-VDT	(3); 116.1
Shreveport Airport	278(126.18,118.7)	AC; 146°, 1.8	(4); 142.74,131.9,118.7,126.18
TEXAS			
→KARNACK FM	(- - -)	FM, 269°, 26	Shreveport, La.
→TYLER (Pounds)	320 (TQ)	BMRLZ-DT,120°,1.4	(4)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
Barksdale, La.	110.3	335	323°Mag	IM- (.07)	MM- (1.00)	OM- (4.39)
					MMK-	OMK-
Barksdale, La.	110.3		143°Mag.	IM- (.25)	MM- ·····(.64)	OM- -- (4.35)
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-
				IM-	MM-	OM-
					MMK-	OMK-

S-Simultaneous Range and Voice, W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105, 4495, 6210 kcs., (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alma	1.5 SE		22 S2	80 oct. Data unver.
Arkadelphia,24,DL-LV	1.5 ENE,RR N	186	40 L3 S6	80 oct.Pole line N, NW.
Arkansas Polytechnic (Russellville)	1.3 N,hwy W	350	23 S6	73 oct. Pole line SE.
Baker (Magnolia)	4.3 E,hwy S	300	18 S6	80, 91 oct.Pole line SW.
Bowden (Mena)	1 E,RR NW	1177	16 S1	73 oct.
Clarksville	2.5 E,hwy S	425	27 S1	80 oct.Pole line WSW.
(P) El Dorado-Goodwin (El Dorado)	8.6 W,hwy S	278	51h	
FORT SMITH	4 SSE,RR S	450	35h L3 S6	80 oct.150' stacks W.
Grayson (Camden)	3.4 SW,RR S	135	26 S6	80,91 oct. No sto.
Greig (Van Buren) (NC)	4.1 E,RR 1.5 N	450	13	
Harlas (Malvern)	2.1 WSW,RR SE	275	26 S1	73 oct. Power line NE.
Hope	5 NNW,RR E	359	55h L3 S6	80,91 oct.Lgts prior req.Use rnwy.
Hope Prescott (Prescott)	3 SW,RR E	280	21 S6	80 oct.
(P) McLaughlin (Hot Springs)	3 SW,RR N	525	41h L5 S6	80 oct.Bldg,twr N.All lgts prior req.Avail.Army 0800-1600 week days only.
Magnolia	1.6 WSW,RR E	225	30	10' bldg SSW.
Norman (Ola)(NC)	1.8 NNE,hwy E	348	28	Pole line E.
Paris	1.8 NE,RR 1 S	500	23 S1	73 oct.Pole lines W,E,SW.
TEXARKANA	4 NE,RR W	389	40h R1 L5 S6	80,91,100 oct.
LOUISIANA				
Arcadia Int,26,FV-AG	4.5 E,RR S	341	29 L3 S2	No fuel. Pole line SW.
(A) Barksdale (Shreveport)(A)	5.8 E,riv W	167	100h R3 L5 S4	73,91,100 oct. JP-1.
Cross Lake (Shreveport)	7 WNW,RR NE	210	40	CAUTION. Data unver.
Lucien (Shreveport)	7 S	205	31 S4	80 oct.Data unver.
Minden	1.5 W,RR S	200	26 S4	80 oct.Trees sur fld.
Northeast Aviation (Bastrop)	2 WSW	90	17 S4	80 oct.No sto. Data unver.
(P) SHREVEPORT	2.5 NNE,riv E	179	45h R2 L5 S6	73,80 oct.
Shreveport Airpark	4.5 SSW,bet RRs	300	47 S6	80,91 oct.Pole line SE.
Heavener (NC)	2 N,hwy W	575	27	
Idabel	1.3 NW,RR E	500	40 S2	80 oct.
(P) Muskogee	5.5 S,RR W	610	56h	Hill SW.
Nashoba (NC)	0.8 SE,riv S	625	13	PRIVATE.
Poteau (NC)	1.5 SSW,hwy W	460	15	
Weddington (Hugo)	1.9 NW,hwy SW	550	24 S1	80 oct. Pole line E.
TEXAS				
Breed (Longview)	2 W,RR N	352	20	Pole line around fld.
Clarksville	2.8 NNW,RR SW	480	20 S6	73,80 oct.
(A) Cox AAF (Paris)(A)	6.5 ESE,RR N	546	46h	INACTIVE.
→East Side (Longview)	2.4 NE,RR S	352	25 L S6	80,91 oct.Port rnwy lgts. Pole line S.
Elder (Kilgore)	2.5 NE,RR E	352	27 S6	80,87,91 oct.Pole line W.
Gladewater	2 WNW,RR S	550	17 S6	73 oct.No sto.Pole line N,S.
(P) Gregg County(Longview)	7.2 S,riv N	365	52h S1	80, 91 oct.
Holmes (Gilmer)(NC)	4 N,RR W	370	23	Pole line W. Cattle on fld.
Legion (Paris)	1.9 NW,RR E	538	31 S6	80 oct.Pole line E.
Mt. Pleasant	2.8 ENE,RR S	393	20 S1	80 oct.
Marshall	3.9 SE,hwy N	400	30 S6	73 oct. Pole line N.
★ Simms Int, 14, DL-LV	1 NE,hwy E	357	26 L3	Pole line E, S.
Texarkana	6 W,RR N	340	25 L S6	80, 91 oct.Flare pots in emerg.
Wisener (Mineola)	1.5 NW,hwy S	510	32 S2	73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) NC-(not charted). →← New or revised data

RADIO

ARKANSAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ADAMS FIELD (Little Rock)	278 (126.18,118.5)	C	(4); 126.18,118.5,131.9,142.74
BRUINS FM	(- - - -)	FM; 240°, 24	Memphis, Tenn.
→ LITTLE ROCK (Adams Field)	353 (LI)(116.1)	SBRAZ-VDT,313°,3.9	(3); 116.1
STUTTGART	269 (DSA)	MRLWZ,173°, 4.7	
LOUISIANA			
MONROE (Selman)	359 (UO)(116.1)	SBMRLZ-VDT,25°,2.8	(4); 116.1
MISSISSIPPI			
FLORA FM	(-)	FM, 356°, 13	Jackson
GREENWOOD	281 (GD)(116.1)	BMLZ-VDT, 265°,1.9	(4); 116.1
→ JACKSON	260 (JA)(116.1)	SBRAZ-VDT,173°,2.4	(3); 116.1
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
VICKSBURG	382 (VS)(116.1)	MHVT	(4); 116.1
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105, 4495, 6210 kcs., (4)-3105, 4495, 6210, 3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ARKANSAS

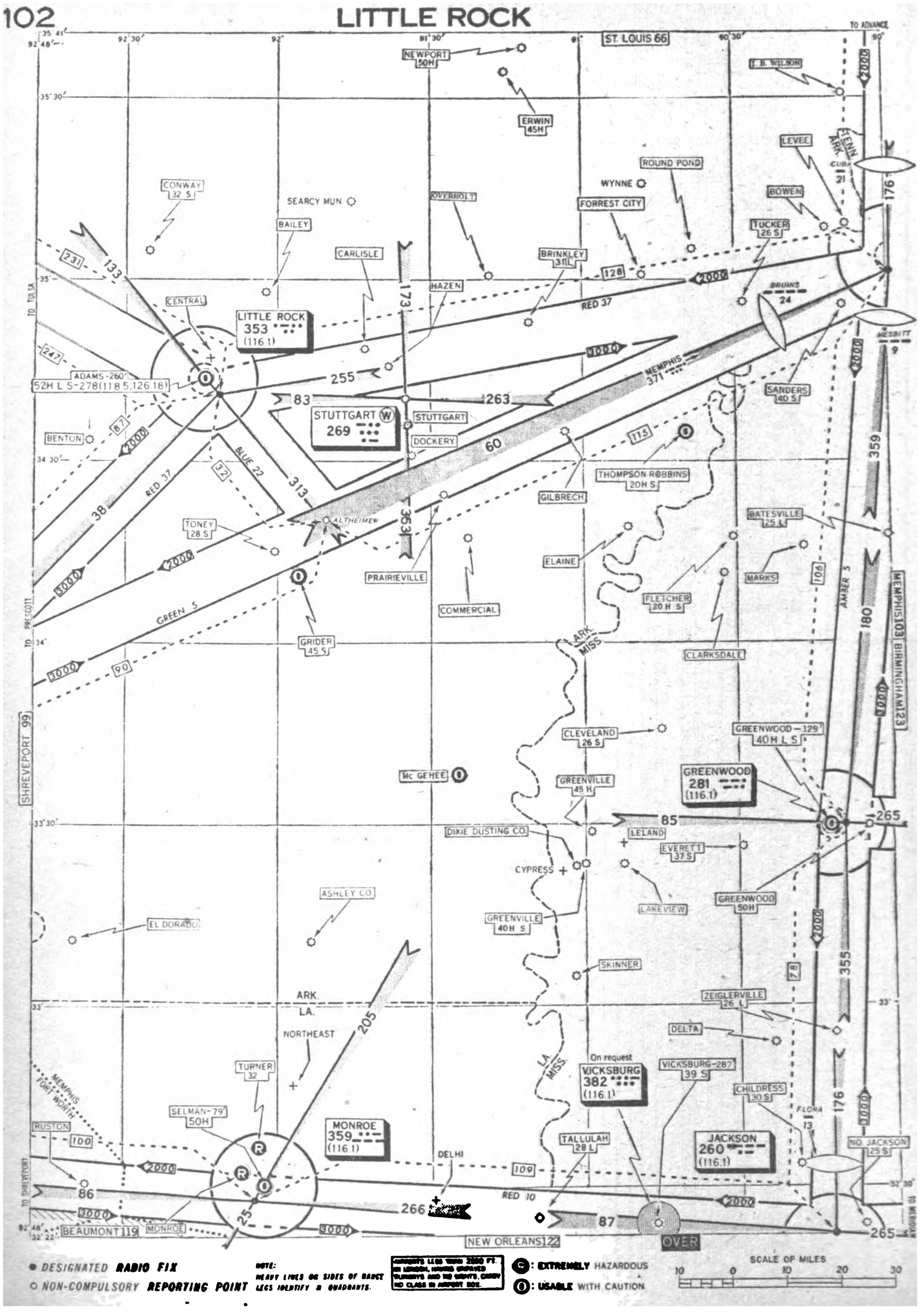
AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(A) ADAMS (Little Rock)	4 E,RR W	260	52h R2 L5 S6	80,91 oct.;73,100,JP-1 mil.acft.
Ashley Co.(Crossett)	5.5 NE,RR E	160	21 S1	Ltd 80 oct.Obsts surround fld.
Bailey (Cabot)	0.5 W,RR E	270	16 S1	80 oct. Trees surround fld.
Benton	1.6 W,RR S	300	20 S6	80 oct.Poles S.
→ Bowen (West Memphis)	1.5 W,hwy N	215	17 L S6	80 oct.Flood lgts.; port rnwy lgts. Poles SE.
Brinkley, 37, DL-LV	1 E,RR N	188	31 L3	Obst NW.
Carlisle (Stuttgart)	26 NW,RR S	236	45h	
Central (Little Rock)	4.5 NE,RR S	255	35 S4	80 oct. Trees W' Data unver.
Commercial (De Witt)	2.4 W,RR N	196	24 S4	80 oct.Poleline E.
Conway	1.5 SE,hwy W	309	32 S6	80 oct.
Dockery (Stuttgart)	1.5 NNW	214	24 S2	73,80 oct. Pole line N,S,E.
Elaine	1.3 N,RR E	170	18 S2	80 oct. Trees S, SE.
EL DORADO	1.5 S,RR W	265	24 S4	80 oct.
Erwin (Newport)	2.5 SSE	220	45h	
Forrest City	0.7 W,hwy SE	226	22 S2	80 oct. Bldg S.
Gilbrech (Palmer)	0.2 NE,RR S	178	17 S2	80 oct.N/S strip rough.Poles W.
→ Grider (Pine Bluff)	5.5 SE,hwy N	210	45 L S6	73,80 oct. Port rnwy lgts.
Hazen (Stuttgart)	18.7 NNW,RR N	225	45h	
J.B. Wilson (Joiner)	0.5 ENE,hwy W	225	15	Trees NE.
→ Levee (West Memphis)	2.4 E,RR N	215	24 L S4	Ltd 73 oct.Port rnwy lgts.Poleline N, S.
McGehee	0.6 NNW,RR E	145	30 S1	80 oct. Hwy E.
Newport	6 ENE,hwy N	237	50h	
Overholt (Cotton Plant)	3 W,RR NE	250	18 S1	Ltd 80 oct.
Prairieville (Stuttgart)	8.2 SE	205	45h	
Round Pond	1.5 NNW,hwy N	200	22 S2	80 oct.
Searcy	2.8 S,RR E	260	14 S1	80 oct. Pole line NE, SE
Stuttgart	7 N,RR E	230	50h	
Thompson-Robbins (Helena)	6 NW, RR S	242	20h S6	73, 80 oct.
Tony (Pine Bluff)	2.5 N,hwy W	215	28 S2	73,80 oct. Twr NW lgtd.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) NC-(not charted) → New or revised data

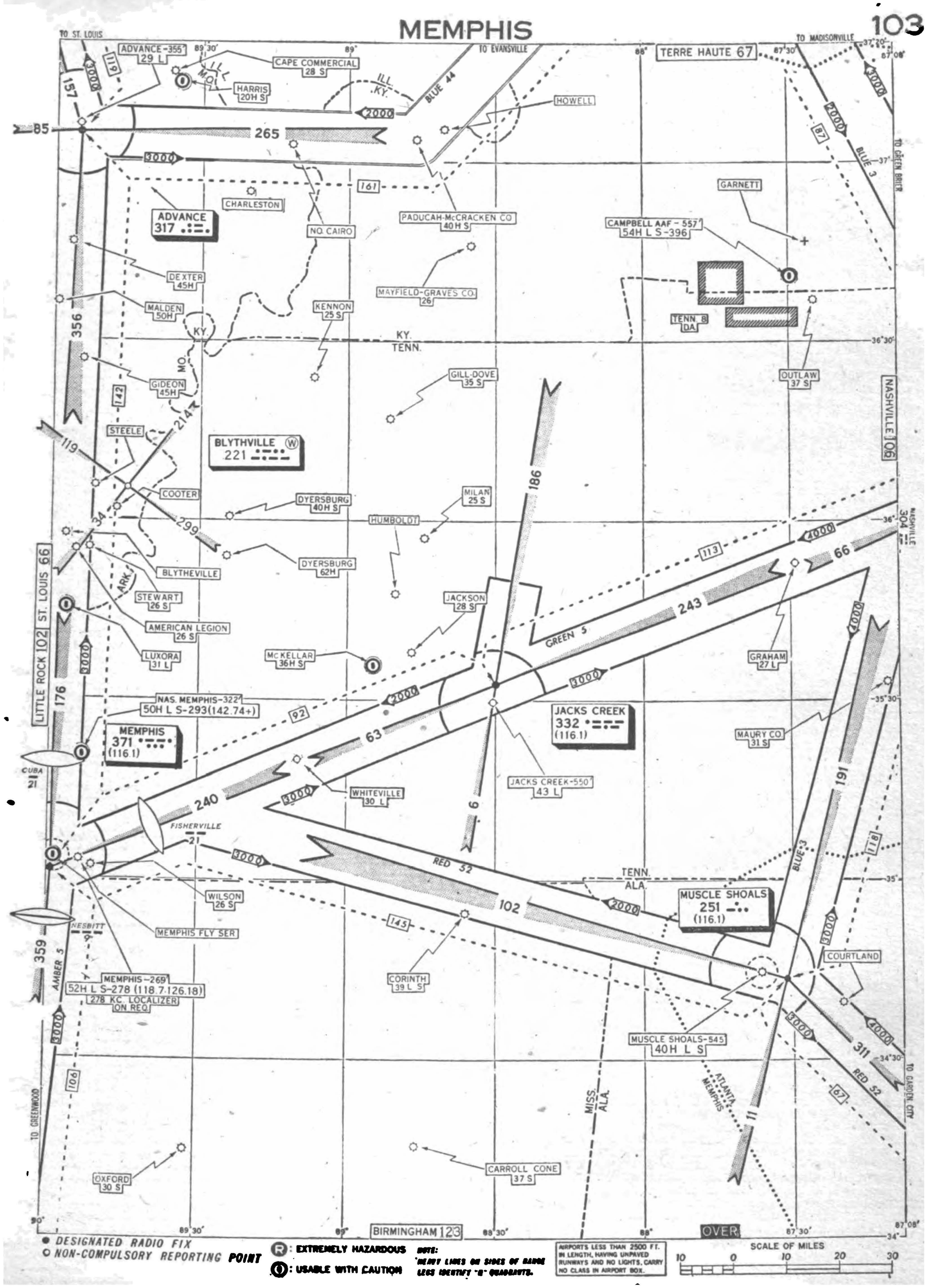
ARKANSAS

AIRPORT-CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Tucker (Hughes)	1.1 S,RR W	205	26 S2	80 oct.
Wright (Monticello)	1 ENE,hwy S	230	15	Pole line S.
Wynne	3.2 N,RR E	212	17 S2	80 oct. Pole line E,SE.
LOUISIANA				
Delhi Flying Service (Delhi)	0.5 N	95	23 S4	80 oct.Poleline E.Data unver.
Monroe Airpark	2.5 N,riv W	77	20 S4	73 oct.
→ Ruston	1.2 SE,RR N	317	16h S2	80 oct. Pole line E.
SELMAN (Monroe)	4.6 E,RR N	79	50h R1	
* Tallulah Int,36,FV-AG	2.4 ENE,RR S	84	28 L3	Beacon S.
→ Turner (Monroe)				ABANDONED.
MISSISSIPPI				
Augustine (Jackson)(NC)	11.5 NE,riv SE	335	40	
* Batesville Int,29,NO-LS	3 W,hwy SE	205	25 L3	Poles N, lgtd.
Canton (NC)	1.4 WNW,RR E	300	38	Tank E.
Childress (Flora)	1.5 NNW,RR E	186	30 S1	73 oct.Trees, bldg N
Clarksdale	1.5 SE,hwy NW	175	22 S6	73 oct. Use strips only.
Cleveland	2 NW,hwy S	400	26 S6	73 oct.
Cole (Heads)(NC)	3 NE,RR W	118	16	
Cypress (Greenville)	1.5 SSW,lake E	120	28 S1	80 oct. Data unver.
Delta (Yazoo)	3.3 NNE,RR SE	115	21 S1	73 oct.Pole line N.
Dixie Dusting Co. (Greenville)	2 SE,RR,hwy N	118	16 S4	73 oct. No sto.
Everett (Moorhead)	1 SE,RR N	127	37 S6	73 oct. No sto.
Fletcher (Clarksdale)	8 NNE,RR W	175	20h S6	80, 91 oct.
Greenville, mun.	3.5 ESE,hwy N	118	40h S1	80, 91 oct.
Greenville	6.5 NE,road W	131	45h	
GREENWOOD, mun.	2.3 SW,RR SE	129	40h R1 L5 S2	73,80 oct.Pole line E,SE.
Greenwood	5.8 ESE,hwy N	162	50h	
Lakeview Airpark (Leland)	1.7 SE,lake E	120	18 S4	73 oct.No sto.Data unver.
Leland	3 NNE		23 S4	80 oct.No sto.Pwrline NW. Data unver.
Marks	1.5 NW,hwy N	106	22 S1	73 oct.
North Jackson Arpk.(Jackson)	7.5 NE,hwy E	300	25 S4	80 oct.No sto.Trees S.
Sanders (Walls)	1.8 S,hwy NW	210	40 S6	73,80 oct.Trees E.
Skinner (Glen Allan)	4 N,lake W	110	18 S1	73 oct.
Vicksburg	6.8 NE,hwy W	287	39 R1 S4	80,91 oct.
* Zeiglerville Int,19,NO-LS	3 SW,riv N	248	26 L2	Twr SE.Trees E,S,SE.

LITTLE ROCK


ST. LOUIS 66
TO ADVANCE
NEWPORT 50H
ERWIN 45H
J. B. WILSON
LEVEE
ROUND POND
WYNNE
CONWAY 32 S
SEARCY MUN
OVERHOLT
FORREST CITY
BOWEN
TUCKER 26 S
BAILEY
CARLISLE
BRINKLEY 31 L
HAZEN
CENTRAL
LITTLE ROCK 353 (116.1)
RED 37
BRUINS 24
NESBITT 9
ADAMS-260°
52H L S-278(118 5,126 18)
255
263
83
STUTTGART (W) 269
STUTTGART
DOCKERY
MEMPHIS 371
SANDERS 40 S
BENTON
BLUE 22
313
60
THOMPSON-ROBBINS 20H S
GILBRECH
BATESVILLE 25 L
TONEY 28 S
ALTHEIMER
353
ELAINE
PRAIRIEVILLE
COMMERCIAL
MARKS
FLETCHER 20 H S
AMBER 3
MEMPHIS 103 BIRMINGHAM 123
GREEN 5
GRIDER 45 S
LA.-MISS
CLARKSDALE
CLEVELAND 26 S
GREENWOOD – 129° 40 H L S
GREENWOOD 281 (116.1)
Mc GEHEE
GREENVILLE 45 H
85
265
DIXIE DUSTING CO.
LELAND
EVERETT 37 S
CYPRESS
ASHLEY CO.
EL DORADO
LAKEVIEW
GREENWOOD 50H
GREENVILLE 40H S
SKINNER
ZEIGLERVILLE 26 L
ARK.
LA.
NORTHEAST
205
DELTA
On request
VICKSBURG 382 (116.1)
VICKSBURG-287 39 S
CHILDRESS 30 S
TURNER 32
LA.-MISS
MEMPHIS-FORT WORTH
SELMAN-79° 50H
MONROE 359 (116.1)
TALLULAH 28 L
JACKSON 260 (116.1)
NO. JACKSON 25 S
FLORA 13
RUSTON
DELHI
RED 10
266
87
OVER
BEAUMONT 119
MONROE
NEW ORLEANS 122
TO SHREVEPORT
TO TULSA
TO PRESCOTT
SHREVEPORT 99
MEMPHIS 103 BIRMINGHAM 123
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES OR SIDES OF RADIO LEGS IDENTIFY 8 QUADRANTS.
E: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30

MEMPHIS



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

Ⓡ: EXTREMELY HAZARDOUS
Ⓛ: USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY "B" QUADRANTS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.

SCALE OF MILES
10 0 10 20 30

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
MUSCLE SHOALS -	251 (ED)(116.1)	SBRAZ-VDT, 282°, 4.5	(4); 116.1
ARKANSAS			
BLYTHEVILLE	221 (LY)	RLWZ, 225°, 13.6	
KENTUCKY			
CAMPBELL AAF (Hopkinsville)	396	CA	(3) .7-21)
MISSISSIPPI			
NESBITT FM	(- - -)	FM, 179°, 9.4	Memphis, Tenn.
MISSOURI			
ADVANCE (Int.)	317 (AP)	SBRAZ-DT, 354°, 1.5	(4)
TENNESSEE			
CUBA FM	(-)	FM, 356°, 20.5	Memphis
FISHERVILLE FM	(- -)	FM, 60°, 20.5	Memphis
JACKS CREEK (Int.)	332 (JK)(116.1)	BMRLZ-VDT, 186°, 2.62	(4); 116.1
→ MEMPHIS	371 (PS)(116.1)	SBRAZ-VDT.	(3); 116.1
→ Memphis Airport	278 (126.18)(118.7)	AC; 356°, 2.1	(4); 131.9, 118.7
Memphis Airport	278	MLW	(On request only)
Memphis NAS	293 (142.74)	CN	3105; 142.74 (6-24)

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ALABAMA				
Courtland	1.5 SW; RR N	587	50h	
Muscle Shoals	1.5 E; dam NNW	545	40h R1 L5 S6	80, 91 oct.
ARKANSAS				
American Legion (Blytheville)	1.5 ESE; RR N	260	26 S6	80 oct. Pole line N. W. Stack E.
Cooter (Blytheville)	10 NE	260	40h	
★ Luxora Int, 39, NO-LS	1 WNW; hwy S	240	31 L2	
Steele (Blytheville)	12.3 N	258	40h	
Stewart (Blytheville)	2.2 E; RR S	254	26 S2	80 oct.
Blytheville	3 NW; RR SW	254	50h	
ILLINOIS				
North Cairo (Cairo)	3 NNW; RR E	312	24 S4	73 oct.
KENTUCKY				
(A) Campbell AAF (Hopkinsville)(A)	12.8 S; RR E	557	54h R1 L5 S4	73,100 oct.
Garnett (Hopkinsville)	6 SSE; hwy W		23 S1	80 oct. Data not verified.
Howell (Paducah)	4 WNW; RR S	371	21 S6	80 oct.
Mayfield-Graves County	3.6 ENE; hwy S	543	26	
PADUCAH-McCRACKEN CO. (Paducah)	8.8 W; RR N	405	40h S6	80, 91 oct. No sto.
MISSISSIPPI				
Carroll Cone (Tupelo)	3 W; hwy S	278	37 S1	80 oct.
→ Corinth 7, PS-TM	5 WSW; hwy N	418	39 L3 S4	80,91 oct.
Oxford	8 S; riv N, W	400	30 S2	73 oct.
MISSOURI				
★ Advance Int, 48, NO-LS	0.8 WSW; RR S	355	29 R1 L3	
Cape Commercial (Cape Girardeau)	4.8 SW; RR S	340	28 S6	80,91 oct. 8' dike S.
Dexter (Malden)	12.5 NNE	315	45h	
Harris (Cape Girardeau)	6.5 SSW; hwy E	340	20h S6	80, 91 oct.
Harvey Parks (Sikeston)(NC)	2 NE, RR S	315	66	Pole line W. Allway area.
Malden	3.5 NW; RR E	296	50h	
Gideon (Malden)	1 SE of Gideon	268	45h	
TENNESSEE				
Dyersburg	9 S; RR E	289	62h	
Dyersburg, mun.	2 SW; riv N	337	40h S4	80 oct. No sto.
Embry Riddle (Union City)	5 ESE; riv WNW	340	18h	Allway: 4620 x 3960'.
Gill-Dove (Martin)	3.5 S; hwy E	416	35 S6	80 oct.
★ Graham Int, 59, DL-LV	1.5 NW; hwy E	536	27 L3	
Humboldt	4.6 ESE; hwy W	380	15 S1	80 oct.
★ Jacks Creek Int, 53, DL-LV	2 N; hwy E	550	43 R1 L3	
Jackson	2.5 ENE; hwy NW	450	28 S6	80 oct.
Kennon (Union City)	3.2 WSW; hwy N	360	25 S6	80 oct. No sto. Pole line N.
(P) McKellar (Jackson)	5.8 W; RR S	410	36h S6	80 oct.
Maury County (Mt. Pleasant)	2.5 ENE; RR SW	672	31 S2	80 oct. Pole line NW.
(A) MEMPHIS	5.9 SSE; RR NE	269	52h R2 L6 S6	73, 91, 100 oct. JP-1. Radio required.
Memphis Flying Service (Memphis)	11 SE; RR 3 NW	286	35 L4 S6	80,91 oct.Pole line S.No bcn.Lgts prior req.
(M) Memphis NAS (N)	16 NNE; RR NW	322	50h R1 L6 S6	91, 100 oct. NATS. Rnyw,lgtg info not ver.
Milan	2.8 NNE; RR SE	421	25 S5	80, 91 oct.
Outlaw (Clarksville)	7.4 NNW; RR W	550	37 S5	80 oct.
Wilson (Memphis)	11.5 SE; hwy W	320	26 S6	73 oct.
★ Whiteville Int, 49, DL-LV	0.6 NNW; RR E	494	30 L3	
→ Charleston (Mo.)	1 ESE;RR NW	300	31 S2	80 oct. Poles S.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
GARDEN CITY FM	(. . -)	FM, 358°, 28	Birmingham
		KENTUCKY	
BOWLING GREEN	368 (BA)	SBMRAZ-DT, 296°, 3.8	(4)
		TENNESSEE	
BERRY FIELD (Nashville)	278(118.3,126.18)	AC (ILS)	(4);126.18.118.3,131.9
CHATTANOOGA	341 (CB)(116.1)	SBRAZ-VDT	(4);116.1
Chattanooga-Lovell Field	278	C, 203°, 3	(4)
FAIRVIEW FM	(- - -)	FM, 246°, 28	Nashville
GREEN BRIER FM	(- - - -)	FM, 331°, 23	Nashville
KINGSTON FM	(- - - -)	FM, 276°, 27.5	Knoxville
→ MT. JULIET FM	(-)	FM, 66°, 9.6	Nashville
→ NASHVILLE (Berry)	304 (NA)	SBRAZ-DT, 245°, 2.6	(3)
SMITHVILLE (Int)	347 (XM)(116.1)	SBMRAZ-VDT, 177°, 1.4	(4):116.1
SMYRNA AAF (Nashville)	219 (126.18)	CA (ILS)	(3);126.18
WALTERHILL FM	(- -)	FM, 129°, 19.6	Nashville

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
BERRY, TENN.	109.9		14° Mag.	IM (.15)	MM (.81)	OM (4.17)
					MMK	OMK
SMYRNA AAF, TENN.	109.5	335	230° Mag.	IM (.04)	MM ..... (.81)	OM -- (4.31)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS — ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Albertville	1 NW;RR NE	1063	15 S1	80 oct.
Athens	3.2 NNW;hwy E	690	26 S2	80 oct. Lgt acft only.
Beaver Dam (Decatur)(NC)	7 E;RR W	580	20	
Centre (NC)	0.6 NNW;RR E	720	23	
Cullman	5 SSE;RR E	740	15 S2	73 oct.
Decatur	4 WNW;hwy N	577	19	Pwr line N.
Gadsden	1.9 SW;hwy N	540	20 S2	80 oct. Fld rough.
Guntersville Dam (NC)	9.1 NW;hwy E	600	30	
Hartselle	1 WSW;hwy N	588	18	
HUNTSVILLE	3.1 S;RR E	610	40h S1	80 oct.
(A) " Arsenal (A)	7 SW;RR NW	677	56h	
North Sauty Base (Scottsboro)	3.2 SSW;RR NNE	610	20 S1	80 oct.
Pryor (Decatur)	4 NNE;hwy W	588	46 S4	80,91 oct.

GEORGIA

Cedartown	1 W;road S	850	25 S4	80 oct. Pole lines N,W; hill SW.
Clevenger's Airpark (Marietta)	5 NE;RR W	1080	14 S4	Ltd 80 oct. No storage.
Dalton	5.7 ESE	700	22 S1	80 oct.
Pelton (Cartersville)	2.5 N	790	23	Hills S,W,N; wires E,W.
Jasper	1 N;RR W	1935	17 S2	80 oct.
La Fayette-Trion (Trion)	3 NNE;RR W	722	21 S1	80 oct. Hwy E.
Rockmart	2 ENE;RR W	800	20 S1	80 oct. Pole line W.
Rome	3 NW;RR S	669	25 S6	80 oct. No storage.
(P) Russell (Rome)	7 N;hwy W	644	45h	

KENTUCKY

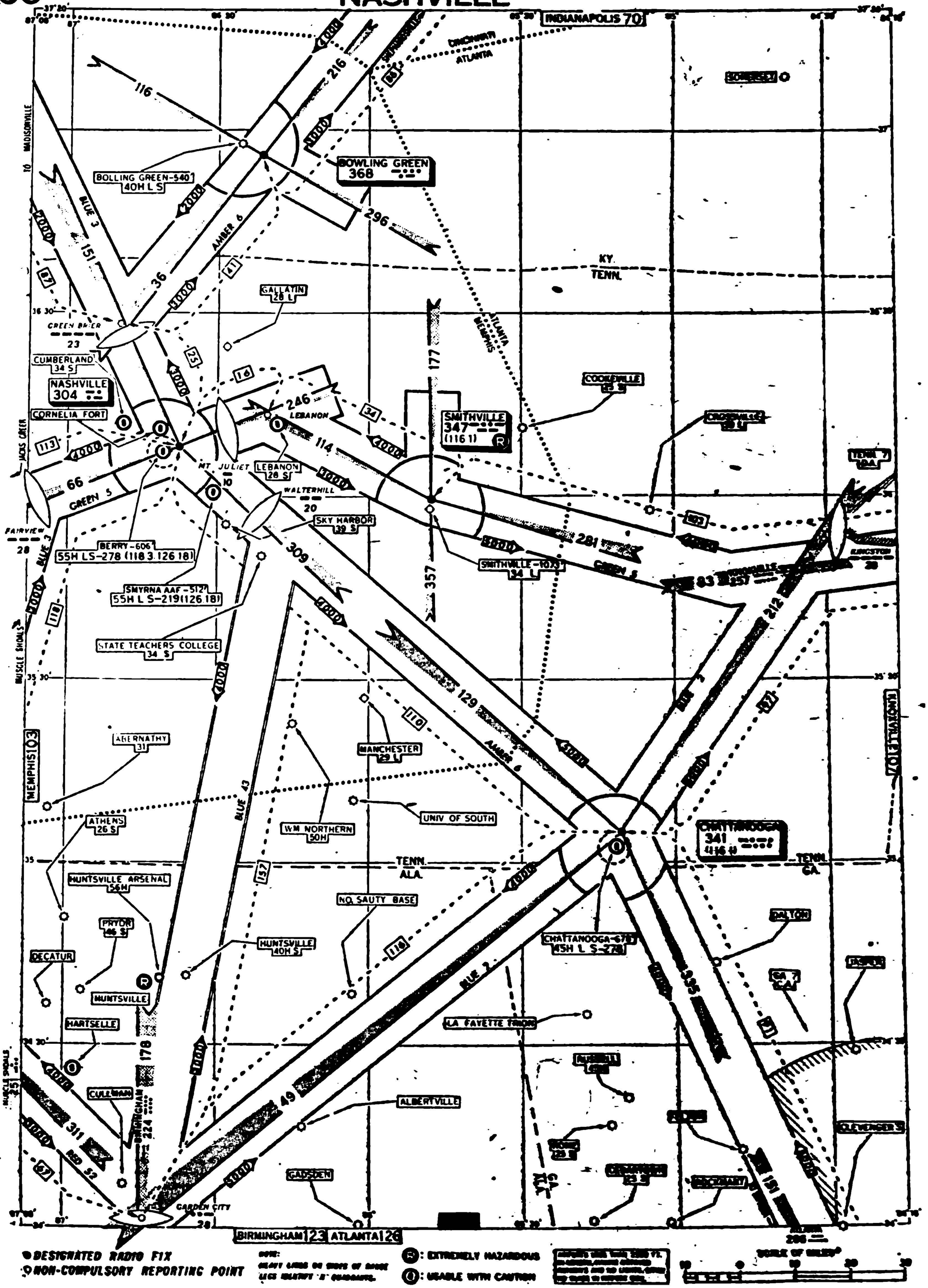
(P) Bowling Green	2.5 SSE;hwy W	540	40h R1 L5 S4	80,91 oct.No sto.Fld lgts prior req.
Somerset	5 N; RR W		20 S2	80 oct. Data not verified.

TENNESSEE

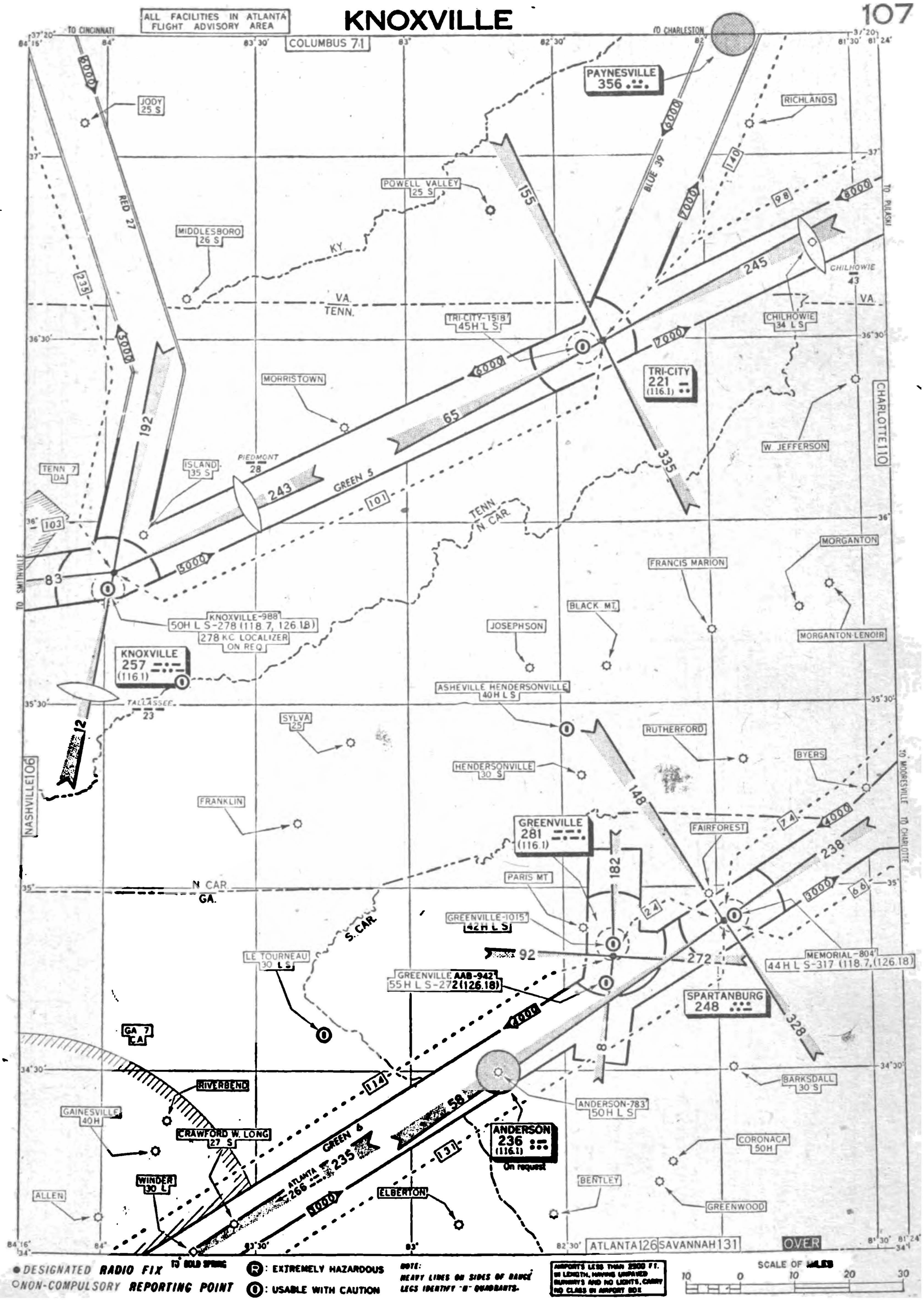
Abernathy (Pulaski)	3.6 SSW;hwy NE	650	31 S1	80 oct. Trees E.
(P) BERRY (Nashville)	6 SE;hwy S	606	55h R3 L6 S6	73,100 oct.
Boyd (McMinnville)(NC)	4.6 SW;RR N	1000	20	
CHATTANOOGA	5.5 E;RR E	678	45h R2 L5 S6	80,91 oct.
Cookeville	1.5 NNE;RR N	1050	25 S4	80 oct. Sto in emerg. Poles W.
Cornelia Fort (Nashville)	4 ENE;riv E	420	30 S6	80 oct. Data not verified.
Crossville,9,NA-WA	3.3 WNW;hwy S	1862	30 L3	
Cumberland (Nashville)	3 NNW;riv N	400	34 S6	80 oct. No storage.
★ Gallatin Int,66,DL-LV	1.5 NW;hwy NE	557	28 L3	
Lebanon	1.8 SW;hwy E	522	28 S6	73 oct. No storage.
★ Manchester Int,16A,AO-WA	4.5 ESE;hwy SW	1090	29 L3	53' trees: W,N.
Sky Harbor (Murfreesboro)	7.3 NW;hwy SW	560	39 S6	73 oct. No storage. Poles NE.
★ Smithville Int,5,NA-WA	1 E;road S	1073	34 R1 L3	
(A) Smyrna AAF (Nashville)(A)	17 SE;RR SW	512	55h R3 L5 S6	73,91,100 oct. JP-1. No rng.
State Teachers College(Murfreesboro)	2 E;hwy N	600	34 S4	80 oct. No stomage. Poles N.
University of South (Cowan)	1.8 WNW;RR NE	870	23 S2	80 oct.
William Northern (Tullahoma)	2 WNW;road S	1081	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII); (NC)-Not charted. → NEW OR REVISED DATA

NASHVILLE


INDIANAPOLIS 70
CINCINNATI
ATLANTA
BOWLING GREEN
368
BOLLING GREEN-540
40H L S
GALLATIN
26 L
KY.
TENN.
ATLANTA
MEMPHIS
NASHVILLE
304
CUMBERLAND
34 S
CORNELIA FORT
GREEN BRIER
23
FAIRVIEW
28
BERRY-606
55H LS-278 (118 3.126 18)
SMYRNA AAF-512
55H L S-219(126.18)
STATE TEACHERS COLLEGE
34 S
MT. JULIET
LEBANON
28 S
WALTERHILL
20
SKY HARBOR
39 S
SMITHVILLE
347
(116 11)
SMITHVILLE-10 AS
34 L
COOKEVILLE
25 S
CROSSVILLE
KINGSTON
SWEETWATER
ABERNATHY
31
MANCHESTER
29 L
UNIV OF SOUTH
WM NORTHERN
50H
ATHENS
26 S
HUNTSVILLE ARSENAL
56M
PRYOR
46 S
DECATUR
HUNTSVILLE
40H S
HARTSELLE
CULLMAN
NO. SAUTY BASE
CHATTANOOGA-67
45H L S-278
CHATTANOOGA
341
(116 9)
DALTON
LA FAYETTE FROM
ALBERTVILLE
GADSDEN
GARDEN CITY
28
BIRMINGHAM 123 ATLANTA 126
MEMPHIS 103
NASHVILLE 107
TENN.
ALA.
TENN.
GA.
MUSCLE SHOALS
BLUE 3
BLUE 43
BLUE 2
AMBER 6
GREEN 5
177
357
178
224
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON EDGE OF CHART
LIES WESTERLY "E" BOUNDARY.
E: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
DOUBLE OF MILES

KNOXVILLE


ALL FACILITIES IN ATLANTA FLIGHT ADVISORY AREA
COLUMBUS 71
TO CINCINNATI
TO CHARLESTON
TO PULASKI
TO SMITHVILLE
TO MOORESVILLE
TO CHARLOTTE
PAYNESVILLE 356
JODY 25 S
RICHLANDS
POWELL VALLEY 25 S
MIDDLESBORO 26 S
KY.
VA.
TENN.
N CAR.
S. CAR.
GA.
TRI-CITY-1518' 45H L S
TRI-CITY 221 (116.1)
CHILHOWIE 34 L S
CHILHOWIE 43
MORRISTOWN
ISLAND 35 S
PIEDMONT 28
TENN 7 DA
W. JEFFERSON
CHARLOTTE 110
MORGANTON
FRANCIS MARION
MORGANTON-LENOIR
BLACK MT.
JOSEPHSON
KNOXVILLE-988' 50H L S-278 (118.7, 126.18)
278 KC LOCALIZER ON REQ
KNOXVILLE 257 (116.1)
TALLASSEE 23
ASHEVILLE HENDERSONVILLE 40H L S
SYLVA 25
HENDERSONVILLE 30 S
RUTHERFORD
BYERS
FRANKLIN
GREENVILLE 281 (116.1)
FAIRFOREST
PARIS MT
GREENVILLE-1015' 42H L S
LE TOURNEAU 30 L S
GREENVILLE AAB-942' 55H L S-272 (126.18)
MEMORIAL-804' 44H L S-317 (118.7, (126.18)
SPARTANBURG 248
ANDERSON-783' 50H L S
ANDERSON 236 (116.1)
On request
BARKSDALL 30 S
CORONACA 50H
BENTLEY
GREENWOOD
RIVERBEND
GAINESVILLE 40H
CRAWFORD W. LONG 27 S
WINDER 30 L
ALLEN
ELBERTON
ATLANTA 266
NASHVILLE 106
BLUE 39
GREEN 5
GREEN 6
RED 27
6000
7000
8000
5000
4000
3000
155
140
98
245
335
65
192
243
101
103
83
235
12
148
74
238
66
182
24
92
272
328
8
14
58
31
ATLANTA 126 SAVANNAH 131
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" QUADRANTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT SYM
SCALE OF MILES
10 0 10 20 30

RADIO

SOUTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANDERSON	236 (AS)(116.1)	MHVT	(4); 116.1
GREENVILLE	281 (GC)(116.1)	BMLZ-VDT, 2°, 2	(4); 116.1
Greenville AAB	272 (126.18)	CA	(3); 126.18
→ MEMORIAL AIRPORT (Spartanburg)	317 (126.18) (118.7)	C	(4);118.7,126.18,131.9
→ SPARTANBURG (Memorial Arpt)	248 (SU)	SBRAZ-DT,58°.1.6	(3)

TENNESSEE

→ KNOXVILLE	257 (KX)(116.1)	SBRAZ-VDT	(3); 116.1
→ Knoxville Airport	278 (126.18) (118.7)	C(ILS); 192°, 2.8	(4): 118.7, 126.18, 131.9
Knoxville Airport	278	(Low powered range)	(4) (on req.)
PIEDMONT FM	(- -)	FM, 68°, 28	Knoxville
TALLASSEE FM	(- - -)	FM, 192°, 23	Knoxville
TRI-CITY	221 (TI)(116.1)	SBMRAZ-VDT,252°, 3,3	(4), 116.1

VIRGINIA

CHILHOWIE FM	(-)	FM, 65°, 43	Tri City, Tenn.

WEST VIRGINIA

PAYNESVILLE	356 (IR)	H	Operated by P.C.A.(6-23)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
				IM-	MM- · - · - 0.6	OM- - - 4.5
→ Knoxville, Tenn.	110.3	335	400 Mag.		MMK-	OMK-

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

GEORGIA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allen (Buford)	1.5 S,hwy SW	1070	15 S1	80 oct. Pole line SW.
Crawford W. Long (Jefferson)	2.5 S,RR E	950	27 L1 S1	80 oct. Pole line SE.
Elberton	2 SE,hwy W,N	710	16 S1	80 oct. Obst sur fld.
Gainesville	1.5 S,RR E,NW	1277	40h	
Le Tourneau (Toccoa)	2.5 NE,RR S	950	30 L3 S4	80, 91 oct.
Riverbend(Gainesville)	4.5 N, in bend of river	1200	17 S1	80 oct.Steep grade NNW end.
★ Winder Int,4,AG-LG	1.5 NE,bet rds	950	30 L3	Trees, bldg N.

KENTUCKY

Jody (London)	3 S,hwy E	1240	25 S2	80 oct.
Middlesboro	1.2 W,hwy S	1150	26 S4	80 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ASHEVILLE-HENDERSONVILLE (Ashev'l)	11.5 SSE,RR W	2090	40h L5 S4	73, 80, 91, 100 oct.
Black Mountain	1.8 SW,RR N	2270	15 S1	80 oct. Soft.
Byers (Shelby)	3 SE,RR SW	875	16 S4	80 oct.
Francis Marion (Marion)	2.5 NE,RR NE	1450	19 S4	80,91 oct.
Franklin	1.2 ESE,riv W	1996	23 S2	80 oct.
Hendersonville	1.5 ESE,hwy SW	2200	30 S6	80, 91 oct.
Josephson (Asheville)	3 W,riv E	2200	20 S1	Ltd 80 oct. Trees NW,SE.
Morganton	2 NW,riv E	1024	16 S2	80 oct.
→ Morganton-Lenoir (Morganton)	7.5 NE,hwy W	1253	33 S2	80,91 oct.
Rutherford(Spindale)	1.5 SSE,RR N	1012	17 S2	80 oct.
Sylva	2.4 NE,riv SW	2039	25 S2	No fuel.
West Jefferson	2 SSW,RR NNE	3200	16 S2	80 oct.

SOUTH CAROLINA

Anderson	4.5 WSW,hwy S	783	50h R1 L5 S6	80, 91 oct.
→ Barksdale (Laurens)	2.8 E,RR NE	700	30 L S6	73 oct. Port rnwy lgts. Pole line NE
Bentley (Calhoun Falls)	3 ENE,RR NNW	500	16	
Chesnee (NC)	2 S,RR W	910	18	PRIVATE.
Coronaca (Greenwood)	3.8 N,RR E	629	50h	
Fairforest (Spartanburg)	5.8 WNW,rd W	830	23 S6	80 oct.
(N) GREENVILLE	6.2 E,RR SE	1015	42h R1 L5 S6	80 oct.
(A) Greenville AAB (A)	7.5 SSE,hwy W	942	55h R1 L5 S6	73, 91, 100 oct. No sto.
Greenwood	2.6 W,RR E	650	24 S6	73 oct.
(N,P) MEMORIAL (Spartanburg)	2.5 SW,hwy SE	804	44h R2 L5 S6	80, 91 oct. 100 oct. for military.
Paris Mountain (Greenville)	4.2 NNW,RR E	1006	21 S6	80 oct. Pwr line NW.

TENNESSEE

Island (Knoxville)	2.5 E	830	35 S4	80 oct. No sto.
(P) Knoxville Mun.-McGhee-Tyson (Knoxville)	12 SSW,hwy E	988	50h R3 L5 S6	91, 100 oct.
Morristown	5.7 ENE	1400	19 S1	73 oct.
TRI-CITY	11.8 NNW Johnson City	1518	45h R1 L5 S6	80, 91 oct. 10.2 ESE Kingsport.

VIRGINIA

★ Chilhowie Int,29B,NA-WA	3.9 SE,riv N	2100	34 L3 S4	80 oct. Pole lines SW,NE.Riv SW.
Powell Valley (Big Stone Gap)	4 ESE,hwy NW	1700	25 S4	80 oct.Pole line ENE,hills W.
Richlands	2.7 WSW,RR N	1950	20 S2	80 oct.

RADIO

NORTH CAROLINA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ CHARLOTTE (Douglas)	212(CF)(116.1)	BMLZ-VDT; 359°,1.7	(3); 116.1
DOUGLAS ARPT. (Charlotte)	396 (126.18) (118.9)	C	(4); 126.18,118.9,131.9, others on req.
→ GREENSBORO	365(GW)(116.1)	SBRAZ-VDT	(3); 116.1
Greensboro-High Pt. Airport	219 (126.18) (118.7)	C; 241°, 1.5	(4); 118.7,126.18
POPE (Fort Bragg)(Army)	338(DOP)(116.1)	SBMRAZ-V	(3); 116.1
Pope Field	396 (126.18) (116.1)	CA(ILS);355°,2.5	(3); 116.1,126.18
→ RALEIGH (Raleigh-Durham Airport)	350(DU)(116.1)	SBRAZ-VDT(ILS); 299°,3.8	(4); 116.1
SMITH-REYNOLDS AIRPORT (Winston-Salem)	278 (126.18) (118.3)	C	(4); 126.18,118.3,131.9
WINSTON-SALEM (Smith-Reynolds Airport)	379 (DWS)	MRLWZ; 328°, 5.1	
SOUTH CAROLINA			
FLORENCE	239(FL)(116.1)	SBMRLZ-VDT;292°,1.7	(4); 116.1
VIRGINIA			
DANVILLE	344(VE)(116.1)	MHVT	(4); 116.1
PULASKI (Loving)	272(US)(116.1)	SBMRAZ-VDT.247°.2.1	(4);116.1
→ ROANOKE (Woodrum Fld)	317(RO)(116.1)	SBRAZ-VDT;349°,2	(3); 116.1
WOODRUM FIELD (Roanoke)	278 (118.5)	C	(4); 131.9,118.5,126.18

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs. Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)
POPE, N.C.	110.3	335	360° Mag.	IN (.04) · MN ····· (4.00) · ON (4.18)
→ RALEIGH, N.C. Raleigh-Durham	109.9	333.8	50 Mag.	IM · MM · OM

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5, kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

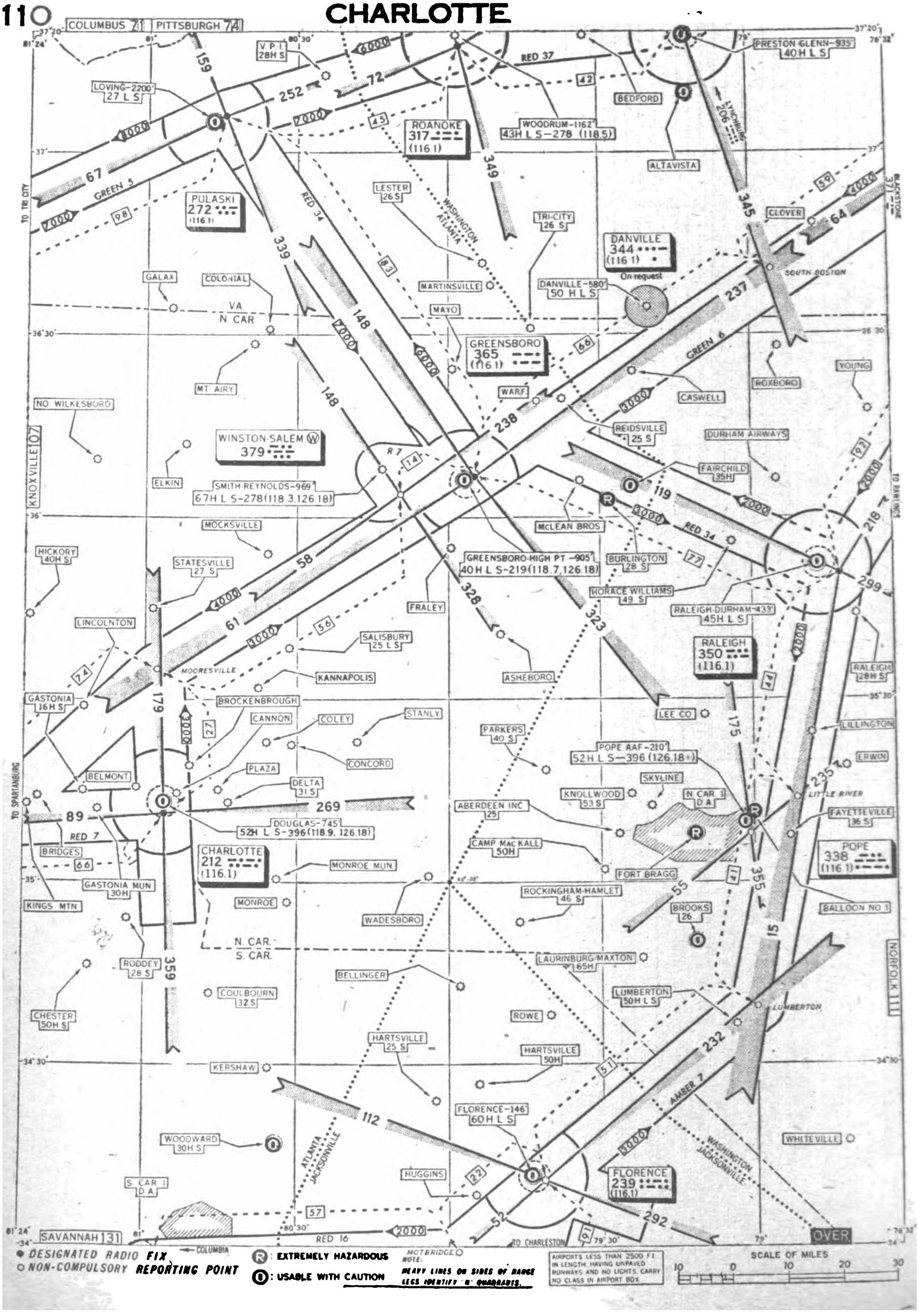
NORTH CAROLINA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Aberdeen Inc.	1.2 W; RR N	450	25	Obsts sur fld.
Asheboro	1.8 SSW;hwy NW	864	18 S2	80 oct.
(A) Balloon (Ft. Bragg)(A)	1 NNW; RR E	225	22	Closed to all acft.
Belmont	1.3 NE;riv E	740	20 S6	80 oct. No sto,Pole line WNW.
Bridges (Kings Mountain)	1 SW; RR SE	930	17 S2	80 oct.
Brockenbrough (Derita)	3.8 WNW;RR E	800	22 S6	80 oct. Pole line SSE.
Brooks (Red Springs)	1.2 N; RR SE	208	26	
(P) Burlington	4 SW; hwy W	638	28 S6	80 oct. Pole line S.
Burris (Lincolnton)(NC)	2.2 SW; RR SE	960	10	UNUSABLE.
Camp MacKall (Hoffman)	3.5 E	350	50h	
Candor (NC)	1.1 E; RR N	710	19	Pole line WNW.
Cannon (Charlotte)	3 WNW; hwy S	788	24 L S6	80,91 oct. Flood lgts req.
Caswell (Yanceyville)	3.7 S; hwy W	640	20 L S1	80 oct. Flare pots prior req.
Coley (Concord)	2 SW; RR E	790	12 S1	80 oct. Trees ESE.
Colonial Flying Service (Mt. Airy)	1.4 NNE;RR S	950	15 S1	80 oct. Pole line, trees NNW.
Concord	4.5 ESE;rd E,S	700	19 S2	80 oct. Pole line NE.
Delta Air Base(Charlotte)	6.7 E; hwy S	750	31 S6	80 91 oct. No sto. Poles NW.
(A) DOUGLAS (Charlotte)	5.5 W; RR N	745	52h R2 L5 S6	80,91 oct.
Durham Airways	7.8 N; RR E	310	14 S1	80 oct.
Elkin	2.8 SW;RR NNW	1100	24 S2	80 oct.Rnwy data unverified.
Erwin	1 SW; riv SW	195	30 S1	80 oct. Pwr line S.
Fairchild-Civil (Burlington)	1.5 E; RR S	640	35h	
Fayetteville	5 N; hwy E	238	36 L1 S6	80 oct. Pwr line E.
Fraley (High Point)	2.5 SSE;RR W	1000	17 S6	80 oct. Strips rough. Trees SE.
Gastonia	1.3 SW	795	16h S4	90 oct. Pwr line SW.
→ " mun.	4.5 SSE;hwy SW	800	30h L	Port rnwy lgts.
GREENSBORO HIGH POINT	8 WNW; RR SW	905	40h R2 L5 S6	80,91,100 oct.
Hickory	2.2 W;RR S	1180	40h S6	80,91 oct.
Horace Williams (Chapel Hill)	1.3 NNW;RR W	502	49 S4	80 oct.
Kannapolis	2.8 N; RR E	750	23 S6	80 oct. Trees WNW.
Kings Mountain	3.5 SW; RR SE	980	23 S2	80,91 oct.
Knollwood (Pinehurst)	5 NE; hwy W	455	53 L5 S4	80,91 oct.
Laurinburg-Maxton(Maxton)	3.5 N;riv E	220	65h	
Lee County (Sanford)	1.5 SE;RR E	400	19 S4	80 oct. No sto. Pwr line sur fld.
Lillington	1.1 NNE;RR S	210	15 S2	80 oct.Pole line NW.
(P) Lumberton	3 WSW;hwy NNW	126	50h L2 S6	80,91 oct.
McLean Brothers (Gibsonville)	0.5 SW;hwy NE	723	18 S6	80 oct.
Mayo (Mayodan)	0.8 W; riv E	900	24 S1	80 oct.
Mocksville	2 W; RR E	800	14 S2	80 oct.
Monroe, com	2.8 SSE	600	20 S2	80 oct.
" mun	2 NNW; hwy S	680	20 S1	80 oct. Trees NW.
Mt. Airy	2.2 SW;RR E	1050	20 S2	80 oct.
North Wilkesboro	1.3 WSW;riv S	970	15 S4	80 oct.
Parkers (Eagle Springs)	1.8 NW;RR S	700	40 S1	80 oct.
Plaza (Charlotte)	5 NE; RR N	740	20 S6	80 oct.
(A) Pope (Ft. Bragg)(A)	2 NW; riv NW	210	52h R3 L5 S6	73,91,100 oct.
Raleigh	3.3 SSW;RR W	364	28h S6	80,91 oct.
→ RALEIGH-DURHAM(Raleigh)	10.5 NW;RR W	433	45h R3 L5 S4	80,91 oct. No twr.
Reidsville	3.2 SE;riv S	822	25 S6	80 oct.
(P) Rockingham-Hamlet	3.5 S; RR E	358	46 S2	80 oct.
Roxboro	7 NE; RR W	600	18 S1	80 oct.
Salisbury	3 SW; RR E	764	25 L2 S6	73 oct.
Skyline (Southern Pines)	4.5 NE;RR NW	460	21 S4	80 oct. No sto. Pwr line S.
(P) SMITH-REYNOLDS (Winston-Salem)	2.8 NNE;RR W	969	67h R2 L5 S6	80,91 oct. Rnwy data unverified.
Stanly (Albemarle)	6 WNW;hwy S	720	16 S1	80 oct.
Statesville	4.5 WSW;RR SE	990	27 S2	80 oct. Trees N.
Tri-City (Draper)	1.2 W; riv W	560	26 S2	80 oct.
Wadesboro	3.7 NNE;RR S	220	18 S4	80,91 oct.
Warf (Reidsville)	3.8 SW; hwy W	820	23 S2	80 oct. Trees N, S.
Whiteville	3.7 S; RR N	60	18 S1	Ltd 80 oct.
Young Airfield (Oxford)	1.8 SW; RR NW	475	18 S1	Ltd 80 oct.
SOUTH CAROLINA				
(P) Chester	5 NNE;RR W	709	50h S4	80 oct. No sto.
Coulbourn (Lancaster)	1 SSW;hwy SW	560	32 S4	80 oct.
Florence	3.5 E; RR SW	146	60h R1 L5 S1	80,91 oct.
Hartsville	2.1 NNE;hwy S	230	25 S2	80 oct.
(P) Hartsville (Darlington)	10 N; hwy E	190	50h	
Huggins (Timmonsville)	1.5 ENE;hwy NW	149	18 S4	80 oct. Pwr line NNW.
Kershaw	4 S; RR W	475	21	
Little Rock (NC)	2.5 SE;hwy W	135	22	Poles around fld.
Lynch Bellinger (Cheraw)	4.2 WNW;RR S	400	22 S4	80 oct. No.sto.Pole line S,WSW.
Palmer (Bennettsville)	3.4 NNW;hwy E	155	44	Not maintained as landing fld.(NC)
Roddey (Rock Hill)	2.7 SW; RR NW	664	28 S4	80,91 oct.Pole line S.
Rowe (Bennettsville)	1.5 NE	190	29 S5	80,91 oct.Trees SW.
(P) Woodward (Camden)	2.9 NE; hwy E	300	30h S4	80 oct.
VIRGINIA				
Altavista	6.1 NE;RR S	650	18 S1	80 oct. Trees SW.
Bedford	1.3 WSW;RR N	1050	16	PRIVATE.
(P) Danville	3.4 ESE	580	50h R1 L5 S6	80,91 oct.
Galax	6.5 S;hwy E	2575	27 S4	80 oct.
Lester (Martinsville)	0.8 NNW;RR NE	1000	26 S2	80 oct.20-75' bldgs SE.
Loving,35A,NA-WA(Pulaski)	2.8 N;RR SE	2200	27 R1 L3 S4	80 oct.Poles SW.No sto.
Martinsville	3.5 SSE;RR NE	800	16 S2	73 oct.
PRESTON GLENN(Lynchburg)	6.7 SSW;RR SE	935	40h R1 L5 S6	80,91 oct.
V.P.I. (Blacksburg)	1.3 SSE;RR W	2100	28h L1 S6	73,80 oct. Strip rough.
(P) WOODRUM (Roanoke)	4.2 NNW;rd W	1162	43h R2 L5 S6	80,91,100 oct.
Clover	3.5 SSW;riv E	350	20	Trees E,W,SE,NW,House E,SE.

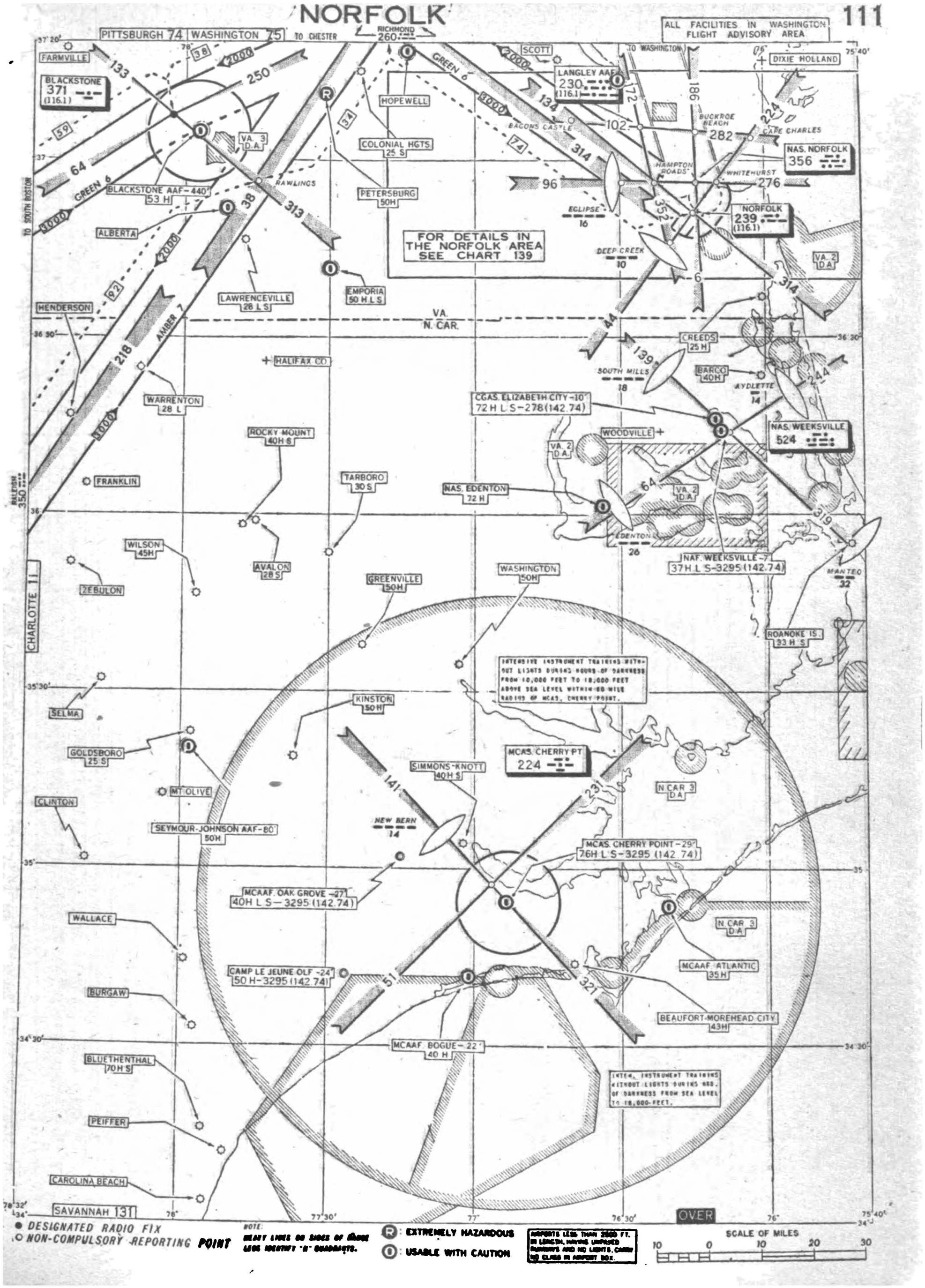
h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted.

→ NEW OR REVISED DATA

CHARLOTTE


COLUMBUS 71
PITTSBURGH 74
V.P.I. 28H S
LOVING-2200' 27 L S
PRESTON GLENN-935' 40H L S
RED 37
BEDFORD
ROANOKE 317 (116.1)
WOODRUM-1162' 43H L S-278 (118.5)
ALTAVISTA
LYNCHBURG 206
PULASKI 272 (116.1)
LESTER 26 S
WASHINGTON ATLANTA
TRI-CITY 26 S
DANVILLE 344 (116.1) On request
CLOVER
BLACKSTONE 371
SOUTH BOSTON
GALAX
COLONIAL
VA
N CAR
MARTINSVILLE
MAYO
DANVILLE-580' 50 H L S
GREENSBORO 365 (116.1)
WARF
CASWELL
ROXBORO
YOUNG
MT AIRY
NO. WILKESBORO
WINSTON-SALEM 379
ELKIN
SMITH REYNOLDS-969' 67H L S-278 (118.3, 126.18)
REIDSVILLE 25 S
DURHAM AIRWAYS
FAIRCHILD 35H
MOCKSVILLE
McLEAN BROS
HICKORY 40H S
STATESVILLE 27 S
GREENSBORO-HIGH PT-905' 40H L S-219 (118.7, 126.18)
BURLINGTON 28 S
HORACE WILLIAMS 49 S
RALEIGH-DURHAM-433' 45H L S
FRALEY
LINCOLNTON
SALISBURY 25 L S
ASHEBORO
RALEIGH 350 (116.1)
RALEIGH 28H S
MOORESVILLE
KANNAPOLIS
GASTONIA 16H S
BROCKENBROUGH
CANNON
COLEY
STANLY
CONCORD
LEE CO
PARKERS 40 S
LILLINGTON
POPE AAF-210' 52H L S-396 (126.18+)
ERWIN
PLAZA
DELTA 31 S
SKYLINE
BELMONT
KNOLLWOOD 53 S
N CAR 1 DA
LITTLE RIVER
ABERDEEN INC 25
FAYETTEVILLE 36 S
DOUGLAS-745' 52H L S-396 (118.9, 126.18)
CAMP MacKALL 50H
POPE 338 (116.1)
BRIDGES
RED 7
CHARLOTTE 212 (116.1)
MONROE MUN
FORT BRAGG
GASTONIA MUN 30H
ROCKINGHAM-HAMLET 46 S
MONROE
BROOKS 26
BALLOON NO 1
KINGS MTN
WADESBORO
N. CAR.
S. CAR.
RODDEY 28 S
LAURINBURG-MAXTON 65H
BELLINGER
LUMBERTON 50H L S
CHESTER 50H S
COULBOURN 32 S
ROWE
LUMBERTON
HARTSVILLE 25 S
HARTSVILLE 50H
KERSHAW
FLORENCE-146' 60H L S
WOODWARD 30H S
WHITEVILLE
ATLANTA JACKSONVILLE
WASHINGTON JACKSONVILLE
HUGGINS
S CAR 1 DA
FLORENCE 239 (116.1)
SAVANNAH 131
COLUMBIA
RED 16
MOTBRIDGE
TO CHARLESTON
TO TRI CITY
TO SPARTANBURG
KNOXVILLE 107
NORFOLK 111
TO BAWLINGS
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
D: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY 'R' QUADRANTS.
AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
SCALE OF MILES
10 0 10 20 30

NORFOLK


PITTSBURGH 74 | WASHINGTON 75
TO CHESTER
RICHMOND 260
ALL FACILITIES IN WASHINGTON FLIGHT ADVISORY AREA
FARMVILLE
BLACKSTONE 371 (116.1)
HOPEWELL
SCOTT
LANGLEY AAF 230 (116.1)
TO WASHINGTON
DIXIE HOLLAND
BUCKROE BEACH
CAPE CHARLES
NAS. NORFOLK 356
COLONIAL HGTS 25 S
BACONS CASTLE
VA. 3 D.A.
BLACKSTONE AAF-440' 53 H
RAWLINGS
PETERSBURG 50H
HAMPTON ROADS
WHITEHURST
NORFOLK 239 (116.1)
ECLIPSE 16
DEEP CREEK 10
VA. 2 D.A.
FOR DETAILS IN THE NORFOLK AREA SEE CHART 139
ALBERTA
EMPORIA 50 H L S
LAWRENCEVILLE 28 L S
HENDERSON
VA.
N. CAR.
CREEDS 25 H
SOUTH MILLS 18
BARCO 40H
AYDLETTE 14
HALIFAX CO.
CGAS. ELIZABETH CITY-10' 72 H L S-278 (142.74)
WARRENTON 28 L
WOODVILLE
NAS. WEEKSVILLE 524
ROCKY MOUNT 40H S
FRANKLIN
TARBORO 30 S
NAS. EDENTON 72 H
EDENTON 26
WILSON 45H
AVALON 28 S
ZEBULON
NAF. WEEKSVILLE-7 37H L S-3295 (142.74)
MANTEO 32
WASHINGTON 50H
GREENVILLE 50H
ROANOKE IS. 33 H S
INTENSIVE INSTRUMENT TRAINING WITHOUT LIGHTS DURING HOURS OF DARKNESS FROM 10,000 FEET TO 18,000 FEET ABOVE SEA LEVEL WITHIN 60 MILE RADIUS OF MCAS. CHERRY POINT.
SELMA
KINSTON 50H
GOLDSBORO 25 S
MCAS. CHERRY PT 224
SIMMONS-KNOTT 40H S
MT. OLIVE
N CAR 3 D.A.
CLINTON
NEW BERN 14
SEYMOUR-JOHNSON AAF-60' 50H
MCAS. CHERRY POINT-29' 76H L S-3295 (142.74)
MCAAF. OAK GROVE-27' 40H L S-3295 (142.74)
WALLACE
CAMP LE JEUNE OLF-24' 50 H-3295 (142.74)
MCAAF. ATLANTIC 35H
BURGAW
BEAUFORT-MOREHEAD CITY 43H
MCAAF. BOGUE-22' 40 H
INTEN. INSTRUMENT TRAINING WITHOUT LIGHTS DURING HRS. OF DARKNESS FROM SEA LEVEL TO 18,000 FEET.
BLUETHENTHAL 70 H S
PEIFFER
CAROLINA BEACH
SAVANNAH 131
OVER
● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF AIRWAYS LEGS INDICATE "R" BOUNDARYS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.
SCALE OF MILES
10 0 10 20 30

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS, GUARDED, HRS. OF OPER., REMARKS
AYDLETTE FM (Navy)	(-)	FM, 64°, 14	Weeksville NAF
CAMP LE JEUNE OLF (New River)	3295 (142.74)	CN	3105,4495;142.74 (8-1630)
CHERRY POINT (Navy)	224 (NKT)	BMRLZ	(3); 140.58, 142.74
Cherry Point MCAS	3295 (142.74)	CN, 141°, 4	(3); 142.74 (6-19)
EDENTON FM (Navy)	(- - -)	FM, 244°, 26	Weeksville NAF
ELIZABETH CITY CGAS	278 (142.74)	CN	(3); 142.74 (7-19)
NEW BERN FM (Navy)	(- - - -)	FM, 321°, 13.6	Cherry Point MCAS
OAK GROVE MCAAF (Pollocksville)	3295 (142.74)	CN	3105,142.74 (8-18)
SOUTH MILLS FM (Navy)	(- - - -)	FM, 319°, 17.5	Weeksville NAF
WEEKSVILLE (Navy)	524 (NFG)	MRL	500,3105; 142.74 (7-19)
Weeksville NAF-LTA	3295 (142.74)	CN, 319°, 0.5	3105; 142.74 (8-1630)
MANTEO FM (Navy)	(- -)	FM, 139°, 32	Weeksville NAF
VIRGINIA			
BLACKSTONE (AAF)	371 (KT)(116.1)	BMLZ-VDT, 133°, 5.5	(4); 116.1
DEEP CREEK FM	(- - -)	FM, 224°, 9.6	Norfolk
ECLIPSE FM	(- - - -)	FM, 276°, 16	Norfolk
LANGLEY FIELD (Army)	230 (DLY)(116.1)	SBMRAPZ-VDT	(3); 116.1
→ NORFOLK	239 (NWX)(116.1	SBMRLZ-VDT, 44°, 3.4	(3); 116.1
Norfolk NAS (Navy)	356 (NGU)	BMRLZ, 276°, 2.9	

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

NORTH CAROLINA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
(N) Atlantic MCAAF (N)	0.8 NW,hwy SE	24	35h	INACTIVE
Avalon (Rocky Mount)	3.8 NE,RR W	120	28 S2	80 oct.
Barco Flight Strip	2.4 W,hwy S	19	40h	
(P) Beaufort-Morehead City	1 N; riv W	13	43h	
(P) BLUETHENTHAL	2.4 NNE, RR W	30	70h L5 S4	80,91 oct. Fld lgts prior req. (Wilmington)
(N) Bogue MCAAF (N)	5.6 E Swansboro	22	40h	INACTIVE.
Burgaw	1.2 W,hwy N,S	30	22 S1	80 oct. Pwr line SSE.
(N) Camp LeJeune OLF (New River)(N)	2.5 S Jacksonville	24	50h R1	
Carolina Beach	2.2 NNW,hwy E	32	16 S1	80 oct. (ltd)
(N) Cherry Point MCAS	2.5 SW,riv N	29	76h R2 L5 S6	100 oct. (N)
Clinton	2 N, hwy W	160	24 S6	80 oct. Pole line W
(N) Edenton NAS (N)	3.5 SE	19	72h	INACTIVE
ELIZABETH CITY CGAS	3.5 SE,riv NE	10	72h R1 L6 S4	91, 100 oct.
Franklin(Louisburg)	2 WSW,hwy S	290	20 S4	80 oct. Hi-line S
Goldsboro	1.3 E,hwy S	110	25 S1	80 oct. Pole line NNE
(P) Greenville	1.8 NNW	25	50h	
Halifax Co.(Roanoke Rapids)	3 SW,hwy N	140	25 S1	80 oct. Data not verified.
Henderson	3 S,RR W	490	23 S6	80,91 oct. No sto. Pole lines S. Rnwy data not verified

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Jacksonville (NC)	3.7 NE,RR SE	51	14	
(P) Kinston	4.2 NNW	93	50h	
Mt. Olive	1.1 NE,RR E	160	15 S1	80 oct.
(N) Oak Grove MCAAF (Pollocksville) (N)	2.5 NW,riv S	27	40h R1 L S4	91, 100 oct.
Peiffer(Wilmington)	6 ESE,ocean E	10	18 S1	80 oct. Poleline NNE,trees N,S,SW.
ROCKY MOUNT	2.3 N,RR E	114	40h S3	80 oct. Use rnwys only.
Selma	0.5 E,RR W,S	150	19 S4	80 oct. Pole line E.
(A) Seymour Johnson (Goldsboro) (A)	3 SSE,riv SW	80	50h	INACTIVE
SIMMONS-KNOTT	2.5 SSE	19	40h S1	80, 91 oct. (New Bern)
Tarboro	2 ESE,riv NNW	50	30 S6	80 oct. No sto. Pole line NNE.
Wallace	0.8 N,RR SW	50	16 S3	80 oct. No sto.
★ Warrenton Int.46,JX-RW	1.5 NE,RR W	446	28 L3	
(P) Washington	1.8 N,hwy W	38	50h	
(N) Weeksville NAF(LTA)	2.2 NE	7	37h R2 L5 S4	91, 100 oct. (N)
(P) Wilson	4.2 NW,hwy E	161	45h	
Woodville (Elizabeth City)	9 WSW	15	19 S6	80 oct. No sto. Pole line S, SW. Data not verified.
Zebulon	3.5 NW,hwy E	324	16 S1	80 oct.
→ Roanoke Isl.(Manteo)	1.5 NW;rd NE	12	33h L5 S4	80,91 oct. Lgts on req. Data unverified.
VIRGINIA				
Alberta	1.5 E,RR SW	380	17 S2	80 oct. Trees WSW.
(A) Blackstone AAF (A)	2.5 ESE,hwy N	440	53h R1	Closed to all acft. INACTIVE
Clarksville-Finchley	5 ENE,RR S	450	13	House, trees NW. (NC)
Colonial Heights (Petersburg)	2 NNE,RR W	60	25 S1	80 oct.
Creeds	1.5 E,bay E	10	25h	
Emporia	3 E,rd S	127	50h L5 S1	80,91 oct. Trees sur fld.
Hopewell	3.3 E,riv N	20	24 S6	80 oct.
Lawrenceville,49B, JX-RW	3.8 ENE,RR N	317	28 L3 S6	80 oct.
Petersburg	6.2 WSW,RR N	190	50h	
Scott (Williamsburg)	1.3 NNW,RR SW	90	20 S2	80 oct. Pole line SW,WNW.
William & Mary College (Williamsburg)	3 NNW,RR SW	105	29	20-60' trees NE,SW,W. (NC)
Dixie Holland (Cape Charles)	1.5 ENE;hwy S		22 S1	80 oct. Unverified.
Farmville	2.5 NW,riv N	325	20 S6	80 oct. Hill W.

CORPUS CHRISTI

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALICE	224(EZ)(116.1)	SBRAZ-VDT, 73°, 3.3	(4);116.1
→ BROWNSVILLE (International Arpt)	388(JI)(116.1)	SBRAZ-VDT, 157°, 2.4	(3);116.1
CABANISS NAAS, (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
CLIFF MAUS (Corpus Christi)	278(118.3)	C	(4);118.3,126.18,140.1,131.9
→ CORPUS CHRISTI (Cliff Maus Field)	382(CR)(116.1)	SBMRLZ-VDT, 138°, 2.9	(3);116.1
Corpus Christi (Navy)	248 (NGP)	MLZ	(3);142.74
Corpus Christi NAS	246 (142.74)	CN;350°, 3.3	(3);142.74
Corpus Christi NAS (Seapl)	2870(142.74)	CN	3105;6210;142.74
CUDLIHY NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
FALFURRIAS FM	(- -)	FM, 163°, 35.5	Alice
GREGORY FM (Navy)	(-)	FM, 350°, 18	Corpus Christi NAS
INTERNATIONAL ARPT (Brownsville)	278 (126.18) (118.7)	C(ILS);157°, 2.4	(4);126.18,118.7
LAREDO (AAF)	206(LL)(116.1)	SBRAZ-VDT, 137°, 3.3	(4);116.1
LOS FRESNOS FM	(- - - -)	FM, 338°, 8.9	Brownsville
MERCEDES FM	(- - -)	FM, 282°, 29.5	Brownsville
PALACIOS	350(UX)(116.1)	BMLZ-VLT, 118°, 1.7	(4);116.1
PLEASANTON FM	(- - -)	FM, 174°, 44.2	San Antonio
RODD NAAS (Corpus Christi)	(142.74)	CN	3105;142.74(during flight opers.)
→ WALDRON NAAS (Corpus Christi)		DECOMMISSIONED	

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)			
INTERNATIONAL, TEXAS	110.3 ---- ..		170° Mag.	IM	MM ·····(.66)	OM --(4.34)	
					MMK	OMK	

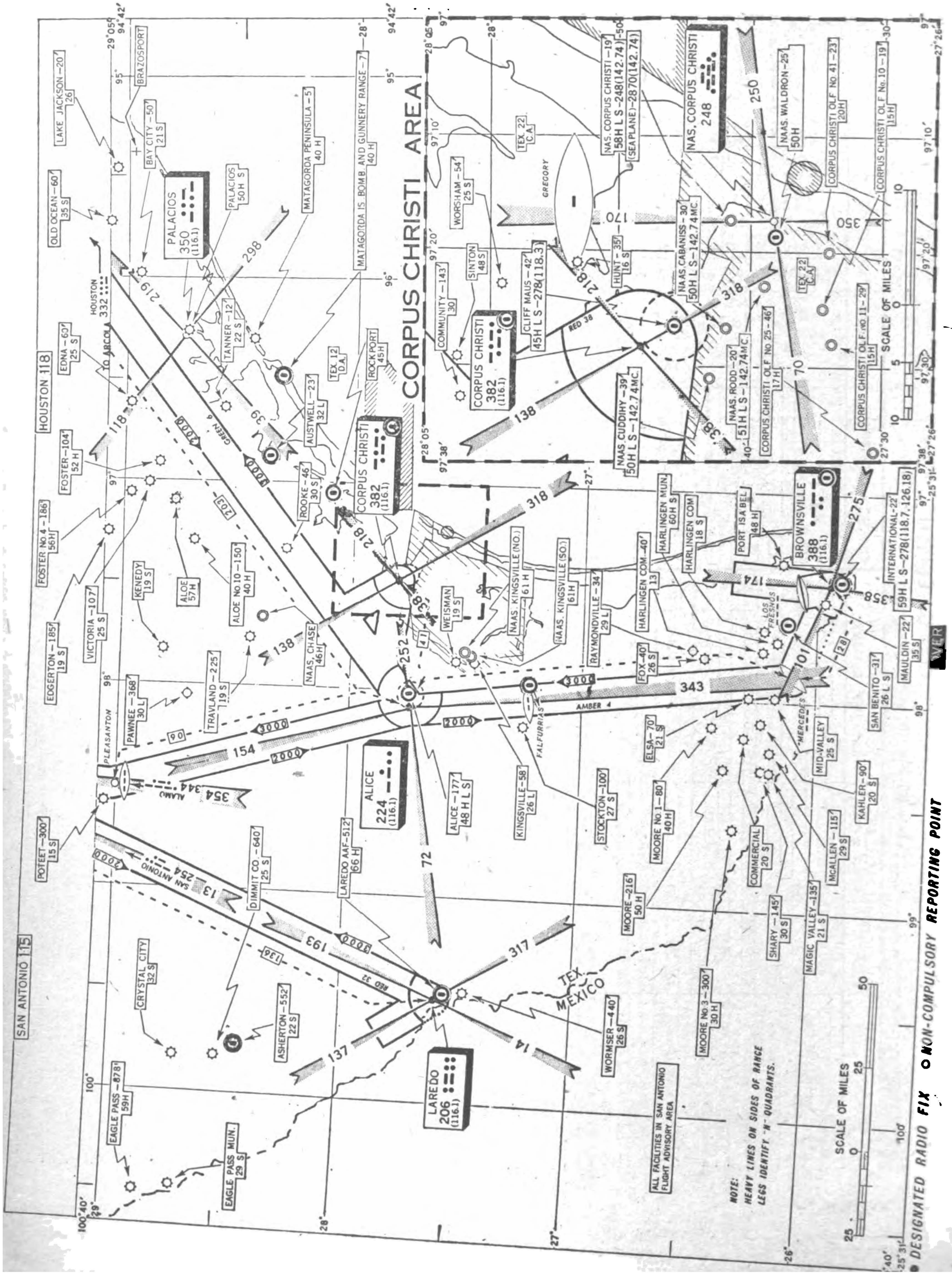
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

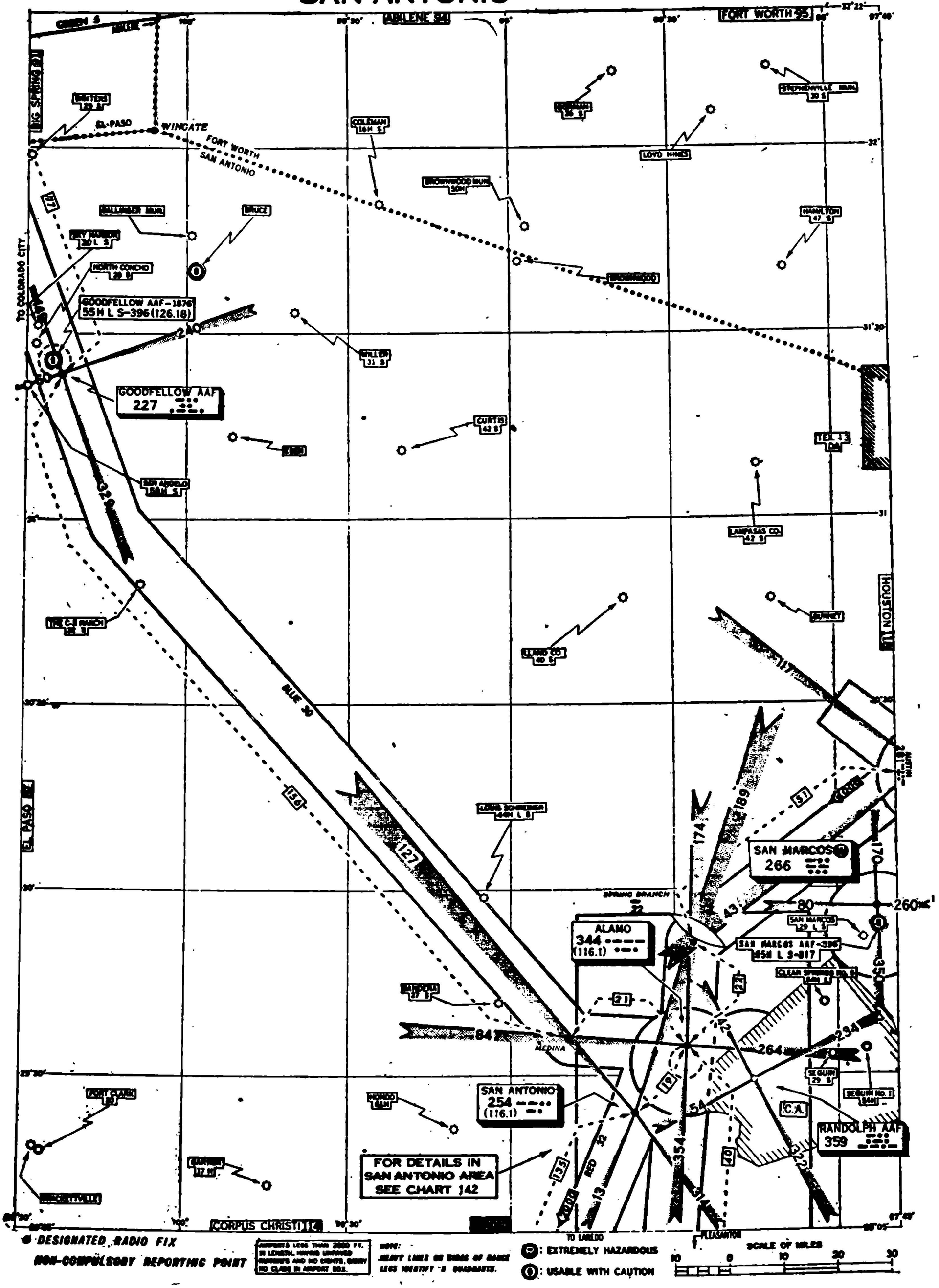
AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P) Alice	3.3 ESE;RR N	177	48h R1 L5 S6	80,91 oct.
Aloe (Victoria)	6 WSW;RR SE	107	57h	
" #10 (Victoria)	19.8 WSW	150	40h	
Asherton	1 S;RR NE	552	22 S1	80 oct.Poles N;trees sur fld.
★ Austwell Int.5A.CR-HU	2.1 SSW;bay NE	23	32 L2	Fence around fld.
Bay City	2 SSW;RR N	50	21 S6	80 oct.No sto.Pole line E.
Brazosport (Velasco)	1 N;hwy SW	6	24 S1	80 oct.Data not verified.
(N) Cabaniss NAAS (Corpus Christi)(N)	6.2 SSW;RR NE	30	50h R1 L5 S4	91 oct.
(N) Chase NAAS (Beeville)(N)	5.6 ESE;rd N	186	46h R1	INACTIVE.
Chupadera Ranch Emerg. Strip (Laredo)(NC)	60 NW	630	33 L1	
(N) CLIFF MAUS (Corpus Christi)	2.5 SW;RR N	42	45h R2 L5 S6	80,91 oct.No storage.
Commercial (Edinburg)	1 W;RR SE	90	20 S1	73 oct.Pole line NW,NNW.
Community (Sinton)	2 W;RR SE	143	30	
(N) Corpus Christi NAS (N)	9.5 SE	19	58h R2 L5 S6	91,100 oct.NATS,NAPC.
(N) " OLP #10 (N)	15 S	19	15h	11 SSW Aberdeen.
(N) " OLP #11 (N)	16 SSW	29	15h	13 SSW Aberdeen.
(N) " OLP #25 (N)	23.5 SSW	46	17h	12.3 ESE Bishop.
(N) " OLP #41 (N)	16 SSE	23	20h	11.8 SSE Aberdeen.
Crystal City	1.8 N;RR W	600	32 S1	80,91 oct.Pole line NE,NW.
(N) Cuddihy NAAS (Corpus Christi)(N)	7.8 SW;crk S	39	50h R1 L5 S4	91 oct.
Central Valley(Mercedes)	1.5 NE;hwy S	62	31h S6	80,91 oct.Data unverified.
Dimmit Co.(Carrizo Sprgs)	2.8 E;hwy N	640	25 S1	Ltd 80 oct.Pole line ends strps.
Eagle Pass	10 N;RR N	878	59h	
" mun.	1.3 E;hwy N	774	29 S2	80 oct.ARPT OF ENTRY.
→ Edgerton (Cuero)	2.9 E;hwy SW.	185	19 S6	80 oct.
Edna	1.5 ENE;RR NW	60	25 S1	73 oct.Live stock on fld.
Elsa	1 SSE;RR N	70	21 S6	73 oct.Crop dusters.
Foster (Victoria)	6.5 NE;RR S	104	52h	
" #4 (Victoria)	12.5 NNW	186	56h	
Fox (Raymondville)	1 WSW;RR S	40	26 S2	73,80 oct.Poles W,SE.
Freer (NC)	3.8 NNW;hwy E	375	28	Trees sur fld.
Harlingen, com.	1.8 SSW;hwy E	41	18 S1	73 oct.
" com.	5 NW;RR SW	40	13	Pole line S.
" mun.	3.5 NE;rd S	35	60h L5 S4	80,91 oct.Lgts prior req.
Hunt (Portland)	2 WNW;RR ESE	35	16 S5	80 oct.
Indianola (Magnolia Beach)	2 SW;hwy N	17	34	PRIVATE.
(P) INTERNATIONAL (Brownsville)	4.5 E;hwy N	22	59h R3 L6 S6	73-100 oct.ARPT OF ENTRY.
Kalher (Alamo)	4 NNE;RR W	90	20 S1	73 oct.Poles sur fld.
Kenedy	1.4 ESE;RR N	270	19 S2	80 oct.
★ Kingsville Int.11,JI-FV	3.5 S;RR W	58	26 L3	
(N) " NAAS (North) (N)	3.5 ESE;hwy NW	47	61h	INACTIVE.
(N) " NAAS (South) (N)	3.5 SE;hwy W,N	51	61h	INACTIVE.
Lake Jackson (Freeport)	9.5 NW;hwy E	20	26	Cattle on fld.Trees SW.
Lake Mathis (Mathis)(NC)	5 WSW;RR SE	161	20	
La Laja (Dolores)(NC)	1.5 NNE;riv SW	475	18	PRIVATE.15-20' brush W.S.
(A) LAREDO AAF (A)	3.5 NE;hwy NNE	512	66h R1 L5	INACTIVE.B2 lgts for Airlines.
Los Fresnos	0.8 SSE;RR W	35	24 S1	73,80 oct.Pole line W
McAllen	1.6 SSW;hwy N	115	29 S6	73,80 oct.Poles E.NE.
Magic Valley (Mission)	1.5 SSW;lake W	135	21 S6	73 oct.No sto.Poles E.
(A) Matagorda Island (A)		7	40h	9 SSW Port O'Conner.INACTIVE.
Matagorda-Peninsula (Matagorda)	6.5 E Port O' Conner	5	40h	
Mauldin (Brownsville)	4.4 NNW;RR W	22	35 S6	80,91 oct.Poles W.
Mid-Valley (Weslaco)	1.7 NE;RR W	70	25 S1	80 oct.Pole line NW,SW.
Moore (Mission)	12 N;RR E	216	50h	
" #1 (Mission)	10 N Edinburg	80	40h	
" #3 (Mission)	5 N LaGrulla	300	30h	
Old Ocean	1 ENE;hwy N	60	35 S1	80 oct.Cattle on fld.
Palacios	2.7 WNW	13	50h R1 S1	80 oct.
★ Pawnee Int,22,JI-FV	5 WNW;RR W	368	30 L3	
Poteet	0.6 SW;RR E	300	13 S2	73 oct.
★ Raymondville Int,5,JI-FV	3.5 NNE;RR W	34	29 L3	
(P) Rockport	4.3 N;bay W	23	45h	
(N) Rodd NAAS (Corpus Christi)(N)	9.8 S;RR NE	20	51h R1 L5 S4	91 oct.No storage.
Rooke (Refugio)	3.2 WSW;RR E	46	30 S1	73 oct.Cattle on fld.Twr NW.
San Benito,2,JI-FV	1.5 E;RR SW	31	26 L3 S6	73,80 oct.
Shary (Mission)	1 NW;RR E	145	30 S4	73,80 oct.
Sinton	1.3 E;RR NW	27	48 S6	80,91 oct.No storage.
Stockton (Falfurrias)	2 NW;RR E	100	27 S1	80 oct.Lake SW.
Tanner Sea & Land Plane Base (Port Lavaca)	3 S;hwy S	12	22 S1	80 oct.Pwr line sur fld.
Travland (Beeville)	2 NW;RR E	225	19 S2	80 oct.Poles E.
Victoria	5.5 N;Hwy SW	107	25 S6	80 oct.
(N) Waldron NAAS (Corpus Christi) (N)	12 SSE;hwy NNE	25	50h	INACTIVE.
Weisman (Kingsville)	2.5 NNE;RR S	60	19 S4	Ltd 80 oct.Poleline S,SW,SE.
Wormser (Laredo)	4 SE;hwy W	440	26 S1	80,91 oct.
Worsham (Taft)	0.8 ENE;hwy SW	54	25 S6	80 oct.
Port Isabel	10 NW	12	48h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

CORPUS CHRISTI



SAN ANTONIO


ABILENE 91
FORT WORTH 95
BIG SPRING 91
EL PASO
WINGATE
FORT WORTH
SAN ANTONIO
COLEMAN
16H S
LOVO HINES
BROWNWOOD
BRUCE
HAMILTON
47 S
GOODFELLOW AAF - 1876
55H L S-396 (126.18)
GOODFELLOW AAF
227
CURTIS
42 S
LAMPASAS CO
42 S
HOUSTON
TO COLORADO CITY
SAN MARCOS
266
ALAMO
344
(116.1)
SAN MARCOS AAF-396
95H L S-817
SAN ANTONIO
254
(116.1)
RANDOLPH AAF
359
FOR DETAILS IN
SAN ANTONIO AREA
SEE CHART 142
CORPUS CHRISTI
MEDINA
PLEASANTON
TO LAREDO
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON TRACK OF RANGE LEGS INDICATE 8 QUADRANTS.
: EXTREMELY HAZARDOUS
: USABLE WITH CAUTION
SCALE OF MILES
0
10
20
30

RADIO AIDS TO NAVIGATION — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ ALAMO (San Antonio)	344(JR)(116.1)	MLZ-VDT	(3); 116.1
GOODFELLOW (San Angelo) (Army)	227 (DIP)	BMRLZ	(3)
Goodfellow Field	396 (126.18)	CA; 329°, 2.5	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
SAN ANTONIO (Kelly)	254(ZN)(116.1)	SBRAZ-VD,107°,1.8	(4); 116.1
SAN MARCOS (Army)	266 (DMS)	MRLWZ	
San Marcos AAF	317	CA; 170°, 4.5	(3); 266 (days only)
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — TEXAS

AIRPORT CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Ballinger	2.5 NW;RR E	1710	20 S1	80 oct.Pole line SSW,SSE.
Bandera	3 SE;hwy NNE	1125	27 S6	80 oct.Trees E.
Brackettville	2.6 W;hwy N	1105	17 S1	Ltd 80 oct.
Brownwood	1 S;hwy W	1310	22	Poles SE,ESE,E.
" mun.	6.3 NNE;RR S	1386	50h	
Bruce (Ballinger)	4.5 SSW;RR NW	1731	23h	Allway: 7497 x 5280'.
Burnet	2 NE;RR W	1325	21 S1	80 oct.Pole line SW.
C-B Ranch (Ft.McKavett)	1.5 W;rd S	2150	32 S1	80 oct.Livestock on fld.
(A) Clear Springs #5 (New Braunfels) (A)	4.8 E;riv SW	640	54h L	Ctc lgts only.
Coleman	1.7 NE;RR S	1685	16h S6	80,91 oct.Use rnwys only.
Comanche (NC)	1.7 NNW;hwy SW	1500	14	
Curtis (Brady)	3 N;hwy SE	1830	42 S1	Ltd fuel.
Eden	1 NW;hwy E	2050	15 S1	73 oct.Trees NE,SW.
(A) Fort Clark(Brackettville)	1.5 SW;rd E	1105	30	(A)
Garner (Uvalde)	2.7 E;hwy N	930	17h S1	80 oct.
(A) Goodfellow (San Angelo)(A)	3 SE;rds N,W	1876	55h R2 L5 S6	73,91,100 oct.JP-1.
Gorman	1 S;RR NE	1400	26 S2	80 oct.Poles NNE.
Hamilton	2.3 SSW;hwy E	1250	47 S6	80 oct.Fence sur fld.
Hondo	2.1 NW;RR S	929	61h	
Lampasas Co. (Lampasas)	6 NW;RR S	1480	42 S2	80 oct.
Llano County (Llano)	2.4 NNE;riv NE	1029	40 S1	73 oct.
(P) Louis Schreiner(Kerrville)	3.9 SE;RR SW	1590	44h L5 S6	80 oct.
Loyd Hines (Dublin)	1.3 NW;RR SW	1260	18 S1	73 oct.Poles NW,SW,SE.
Mason County (NC)	3.2 ESE;hwy N	1500	44	
Miller (Leaday)	1 S;riv W	1525	31 S6	73 oct.No storage.
North Concho (San Angelo)	1.7 WNW;RR E	1850	28 S4	80 oct.Poles sur fld.
Riomedina (Castroville)	4.5 N;riv W	855	45	(NC)
SAN ANGELO	8.5 SSW;rd NW	1901	59h R1 L5 S6	80,91 oct.
(A) San Marcos AAF (A)	5 E;riv W	596	65h R2 L5	
★ " Int,31B,JI-FV	2 SE;hwy N	577	29 L3 S6	73,80 oct.Pole line NE.
Schneider (Seguin)(NC)	2.2 WNW;RR N	520	23	Pole line N.
Seguin	3.3 WSW;riv E	400	29 S1	73,80 oct.Pole line NW.
(A) " #1 (A)	3 E;rd N	530	54h	
Sherril (Rock Springs)(NC)	4 W;hwy S	2400	21	Cattle on fld.
→ Sky Harbor (San Angelo)	4.6 NNW;RR SW	1840	30 L3 S1	80 oct. Pole line W,NW.
South Coleman (Coleman)	1 S;hwy NW	1710	21	Closed - not maintained.(NC)
→ Stephenville	1.5 E;hwy S	1310	30 L S6	80 oct. Port rnwy lgts.
White (Brady) (NC)	10 W;RR N	1550	73	
Winters	2 NW;RR E	1860	29 S1	73 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing.(See page XIII)(NC)-Not charted. → NEW OR REVISED DATA

RADIO — TEXAS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ ARCOLA FM	(- - -)	FM, 226°, 15	Houston
→ AUSTIN (Robert Mueller Arpt)	281(XN)(116.1)	SBMRL2-VDT,117°,2	(3); 116.1
BERGSTROM FIELD (Austin)	396 (126.18)	CA	(4); 126.18
→ HOUSTON	332(HU)(116.1)	SBRA2-VDT	(3); 116.1
Houston Airport	278 (126.18) (118.5)	AC; 309°, 2.5	(4); 121.9,126.18,118.5
HOUSTON LPM	(- - - -)	LPM, 309°, 5.5	Houston
NAVASOTA (Int)	212(NT)(116.1)	BMRL-VDT,180°,1.3	(4);116.1
RICHMOND	391 (UT)	MRLW	
ROBERT MUELLER ARPT, (Austin)	272 (119.7)	C	(4);118.7,126.18,121.9,140.1
WACO (Mun)	385(WC)(116.1)	SBRA2-VDT,9°,2.6	(4);116.1
→ WEBSTER FM	(- -)	FM, 129°, 9.3	Houston
YOAKUM (Int)	236 (YK)	HW-T,352°,2.8	

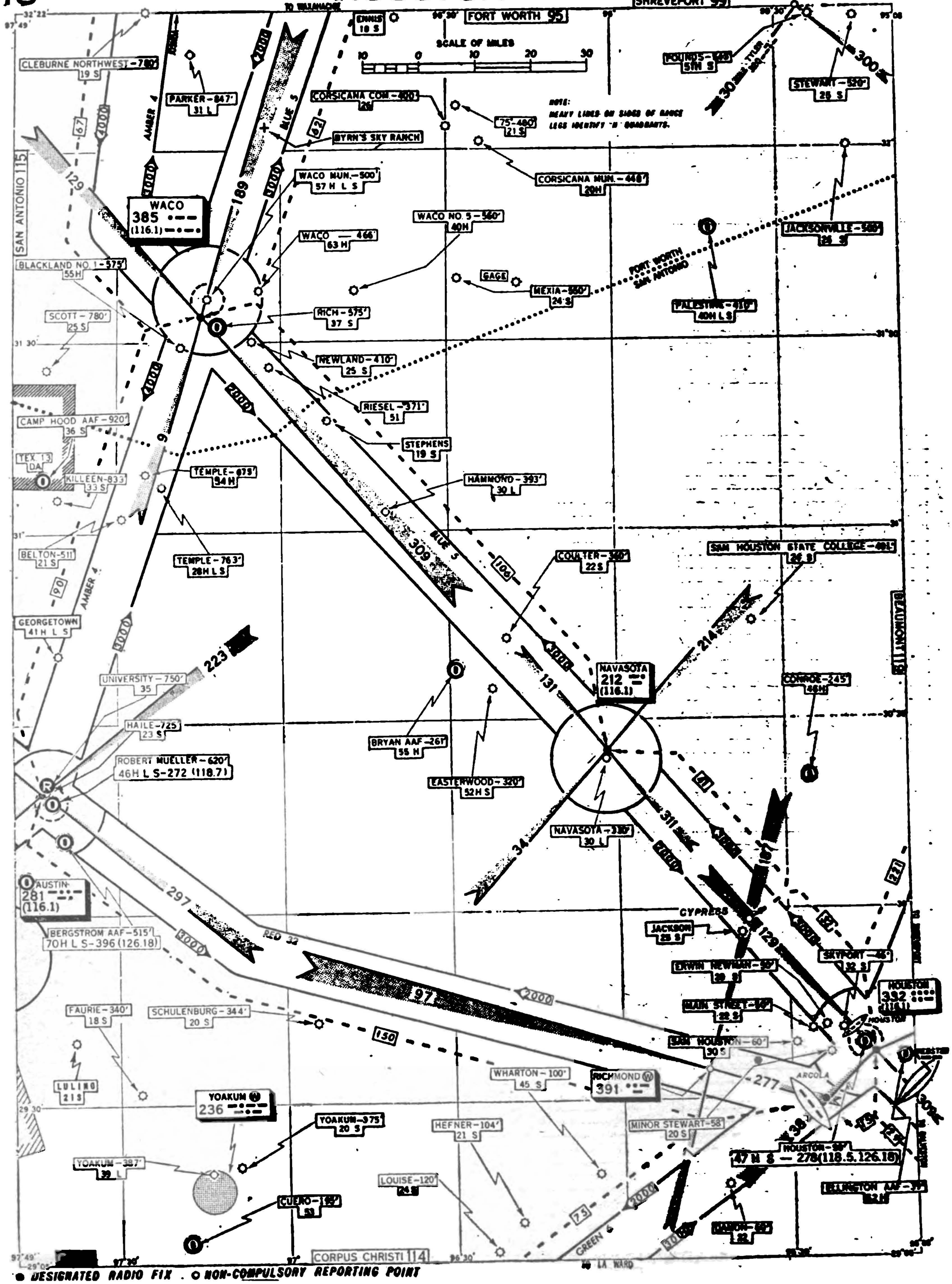
S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

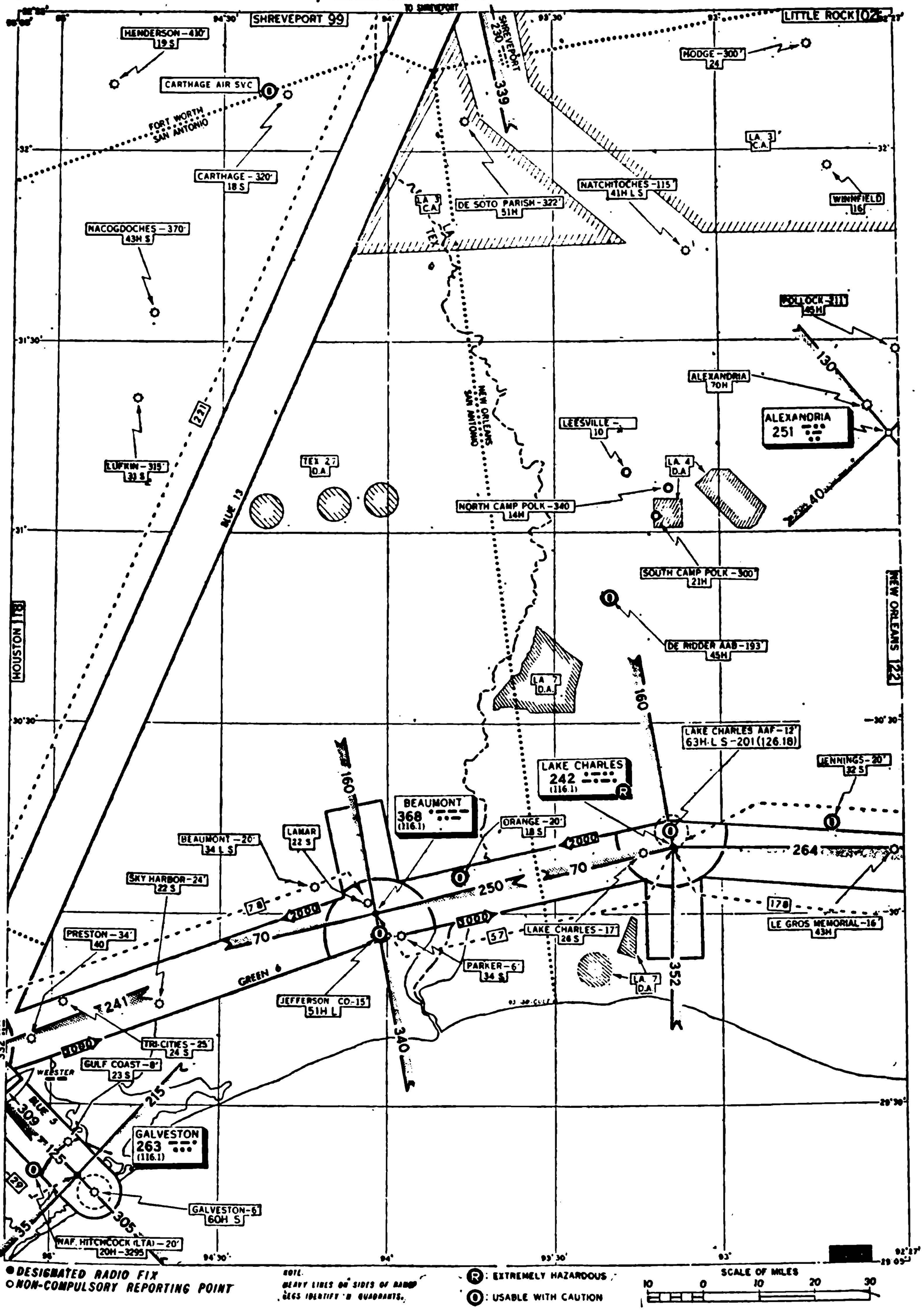
AIRPORTS — TEXAS

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Belton	1.6 WSW;hwy N	511	21 S1	73,80 oct.No storage.
(A) Bergstrom (Austin) (A)	7 SE	515	70h R1 L5 S6	73,100 oct.No storage.Pole NE,NW.
Blackland #1 (Waco)	11 WSW;RR S	575	55h	
(A) Bryan AAF (A)	7 SSW;riv SSW	261	55h	INACTIVE.
Cameron Airpark (NC)	1.7 N;RR,hwy W	402	29	Bldg NNE
(A) Camp Hood Landing Field (Killeen)	2 NE	920	36 S1	CLOSED. (A)
Cleburne Northwest (Cleburne)	1.7 NW;RR NE	780	19 S1	Ltd 80 oct.
(P) Conroe	3.5 NE;hwy W	245	46h	
Corsicana, com.	2.8 SW;bet rds	400	26	
" mun.	5.6 SE;RR E	448	20h	UNUSABLE.Acft parked entire fld.
Coulter (Bryan)	4 NE;hwy NW	360	22 S6	80 oct.5' fence SW.
Cuero	3.1 N;RR SE	195	53	
Damon	3 ESE;hwy WSW	60	22	4'fence sur fld.
(P) Easterwood (College Station)	2.8 SW	320	52h S6	80 oct.
(A) Ellington (Houston)(A)	15 SE;RR W	39	52h	INACTIVE.
Ennis	1.5 NW;RR E	540	18 S4	Ltd 73 oct.No storage.
Erwin-Newman (Houston)	5 SSW;hwy N	50	28 S6	80 oct.
Faurie (Gonzales)	2 NNE;hwy E	340	18 S2	80 oct.Trees N,S.
Georgetown	3.3 N;hwy E	789	41h L5 S4	80,91 oct.
Haile (Austin)	4.1 NE;RR E	725	23 S6	80,91 oct.Poles ESE.
★ Hammond Int.16,OS-WC	2.5 SSE;RR W	393	30 L3	
→ Hefner (El Campo)	1.5 WSW;RR SE	104	21 L S2	80 oct.Port rnwy lgts. Pole line S, SE.
HOUSTON	9 SSE;hwy W	50	47h R2 L5 S6	73,80,91,100 oct.
Jackson (Cypress)	4 SE;hwy S	145	25 S6	80 oct.
Jacksonville	3 N;RR E	500	26 S6	73,80 oct.Pole line ENE.
Killeen	3.6 SE;RR NNE	833	33 S1	73 oct.Sign board N.
Louise	1.6 E;RR W	120	24 S1	Ltd 80 oct.Pole line N,S.
Luling	1.1 SE;hwy NE	418	21 S1	80 oct.Pole lines sur fld.
Madisonville Emergency (NC)	0.8 NW;hwy E	400	18	
Main Street (Houston)	6.5 SW;hwy SE	50	22 S6	80 oct.
Mexia	1 SE;RR NW	550	24 S2	80 oct.
Minor Stewart (Houston)	10 S;RR W	58	20 S6	80 oct.
★ Navasota Int.10,OS-WC	2.5 ENE;RR NNW	330	30 R1 L3	
Newland (Waco)	4.5 SSE;RR NE	410	25 S6	80,91 oct.
Palestine	4.5 WNW;hwy N	410	40h L5 S6	80,91 oct.
★ Parker Int.48,JI-PV	0.6 N;hwy W	847	31 L3	
(P) POUNDS (Tyler)	5.5 W;hwy N	543	51h R1 L5 S1	80,91 oct.Ctc lgts prior req.
Rich (Waco)	3 WSW;hwy SW	575	37 L4 S6	73,80,91 oct.Poles SSE,SE.Fld lgts prior req.
Riesel (Waco)	10.5 SE	371	51	
ROBERT MUELLER (Austin)	3.5 NE;RR SW	620	46h R2 L5 S6	80,91,100 oct.
St. Edwards (Austin) (NC)	3.5 S	700	22	
Sam Houston (Houston)	10.5 SW;RR S	60	30 S6	73,80 oct.
Sam Houston State College (Huntsville)	2.5 NW;RR E	401	24 S2	80 oct
Schulenburg	2.2 N;hwy W	344	20 S4	73 oct.Pole line W.
Scott (Gatesville)	1.8 E;hwy N	780	25 S1	80 oct.Pole line NW.
→ Seventy-Five (Corsicana)	1.8 N;RR W	480	21 L S6	73 oct.No storage.Port rnwy lgts. Poles NW.
Skyport (Houston)	5 S;hwy N	46	32 S4	80 oct.
Sportsman (Houston)	6 ENE;RR N	60	30 S4	80 oct.
Stephens (Marlin)	2 ESE;RR N,SSW	318	19 S2	80 oct.Cattle on fld.Pole W.
Stewart (Tyler)	2.5 E;hwy N	520	25 S6	80 oct.Poles W.
Taylor	2.2 WNW;RR S	520	24 S4	73 oct.
Temple	5.5 NW;rd SW,NW	675	54h	
Temple 40, JI-PV	2 NNW;hwy SW	763	28h L3 S4	73,80 oct.
→ University (Austin)				ABANDONED.
Waco	7 NNE;bet RRs	466	63h	
WACO MUNICIPAL	6 NW;lake S	500	57h R1 L5 S4	80,91 oct.
" #5 (Prairie Hill)	2 S;hwy N	560	40h	
Wharton	1.8 ENE;RR N	100	45 S2	80 oct.
Yoakum	4 N;hwy W	375	20 S6	80 oct.
★ " Int.7,JR-HU	5 NW;hwy S	387	39 L3	
→ Osge (Teague)	1.7 N		22 S4	80 oct. Pwr line W.Data unver.
Byrn's Sky Ranch (Hillsboro)	5.8 NE	820	25 S6	80 oct. Data unverified.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

HOUSTON


SHREVEPORT 99
FORT WORTH 95
TO WILLMAR
ENNIS 18 S
SCALE OF MILES
10 0 10 20 30
CLEBURNE NORTHWEST – 780' 19 S
PARKER – 847' 31 L
CORSICANA COM. – 400' 29
75' – 480' 21 S
BYRN'S SKY RANCH
POUND 5 – 425' 51M S
STEWART – 520' 25 S
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "B" BOUNDARYS.
WACO MUN. – 500' 57 H L S
CORSICANA MUN. – 448' 20H
WACO 385 (116.1)
WACO NO. 5 – 560' 40H
WACO – 466' 63 H
JACKSONVILLE – 568' 25 S
BLACKLAND NO. 1 – 575' 55H
GAGE
MEXIA – 550' 24 S
FORT WORTH SAN ANTONIO
PALESTINE – 410' 40H L S
SCOTT – 780' 25 S
RICH – 575' 37 S
NEWLAND – 410' 25 S
RIESEL – 371' 51
STEPHENS 19 S
CAMP HOOD AAF – 920' 36 S
TEX DA
KILLEEN – 833' 33 S
TEMPLE – 879' 94 H
HAMMOND – 393' 30 L
BELTON – 511' 21 S
TEMPLE – 763' 28H L S
COULTER – 360' 22 S
SAM HOUSTON STATE COLLEGE – 495' 26 S
GEORGETOWN 41H L S
UNIVERSITY – 750' 35
NAVASOTA 212 (116.1)
CONROE – 245' 46H
HAILE – 725' 23 S
BRYAN AAF – 261' 55 H
ROBERT MUELLER – 620' 46H L S – 272 (118.7)
EASTERWOOD – 329' 52H S
NAVASOTA – 330' 30 L
AUSTIN 281 (116.1)
BERGSTROM AAF – 515' 70H L S – 396 (126.18)
CYPRESS
JACKSON 25 S
ERWIN NEWMAN – 50' 32 S
SKYPORT – 45' 32 S
HOUSTON 332 (116.1)
MAIN STREET – 50' 22 S
SAM HOUSTON – 60' 30 S
FAURIE – 340' 18 S
SCHULENBURG – 344' 20 S
WHARTON – 100' 45 S
RICHMOND 391
ARCOLA
LULING 21 S
YOAKUM 236
YOAKUM – 975' 20 S
HEFNER – 104' 21 S
MINOR STEWART – 58' 20 S
HOUSTON – 98' 47 H S – 278 (118.5, 126.18)
YOAKUM – 387' 32 L
LOUISE – 120' 24 S
CUERO – 195' 53
ELLINGTON AAF – 39' 52 H
MANVEL – 62' 22
CORPUS CHRISTI 114
LA WARD
GREEN
RED 32
BLUE 5
AMBER 4
AMBER 1
SAN ANTONIO 115
BEAUMONT 118
● DESIGNATED RADIO FIX . ○ NON-COMPULSORY REPORTING POINT



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS IDENTIFY 'R' QUADRANTS.

Ⓡ: EXTREMELY HAZARDOUS
Ⓞ: USABLE WITH CAUTION

SCALE OF MILES
10 0 10 20 30

BEAUMONT

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ALEXANDRIA	251 (DAI)	MRAWZ,310°,5.7	(4)
LAKE CHARLES	242(LC)(116.1)	SBRAZ-VDT	(4);116.1
Lake Charles AAF	201 (126.18)	CA:340°,2.3	(4) only
TEXAS			
BEAUMONT (Jefferson Co.)	368(JU)(116.1)	BMRLZ-VDT,160°,3.8	(4);116.1
GALVESTON	263(GS)(116.1)	SBMRLZ-VDT,125°,4.2	(4);116.1
HITCHCOCK NAF-LTA-HTA	3295	CN	3105,6390 (days)
WEBSTER FM	(- -)	FM,129°,9.3	Houston

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — LOUISIANA

AIRPORT – CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
ALEXANDRIA	5.5 W;riv 2N	86	70h	
De Quincy (NC)	1.5 SW;RR NW	78	24	Cattle on fld.Trees N,E.
(A) De Ridder AAB (A)	3.5 WSW;RR S	193	45h	INACTIVE.
(P) De Soto Parish(Mansfield)	4.3 NW;hwy S	322	51h	
Hart (Many)(NC)	1.8 SSW;RR E	242	24	Trees NNE.
Hodge	0.5 ENE;hwy NW	300	24	Cattle on Fld.
Jennings	1.4 NNW;RR SW	20	32 S2	80,91 oct.Pole line E.
Lake Charles	5.2 SSW;hwy N	17	26 S6	80 oct.Pole line N. Rnwy data unver
(A,N) LAKE CHARLES AAF (A)	4 ESE;RR NE	12	63h R2 L5 S6	91,100 oct.JP-1.No storage.
(A) Leesville Landing Strip	2 NW		10	L-type acft. (A)
Le Gros Mem'l (Crowley)	6.5 WSW;RR N	16	43h L5	Ctc lgts prior req.
McArthur (Alexandria)	2.8 W;hwy E,N	86	12 S1	Ltd 80 oct.Trees N,S.
(P) Natchitoches	1.5 SSW;RR E	115	41h L5 S6	80 oct.,ltd 90 oct.Ctc lgts prior
(A) North Camp Polk Landing Strip (Camp Polk)(A)	6 NE	340	14h	req. No bcn.
Oakdale (NC)	3 W;hwy N	123	27	Trees WSW,ENE.
Pollock	4.5 SW	211	45h	
(A) South Camp Polk Landing Strip (Camp Polk)(A)	Adj E	300	21h	
Winnfield	3 NW;hwy E	600	16	Trees N.
TEXAS				
Angelina Co. (Lufkin)(NC)	7.5 SSW;RR W	288	42	Cattle on fld.
Beaumont	6.8 W;bet RRs	28	34 L3 S6	73,80 oct.Fld lgts prior req.
Carthage	2 E;hwy N	320	18 S1	Ltd 80 oct.
" Air Service	1.3 W;hwy N,S	310	30 S2	80,91 oct. Pole line N.Trees E,W.
GALVESTON	3.5 WSW;Gulf S	6	60h R1 S6	80,91 oct.
Gulf Coast (Texas City)	2.8 WNW;hwy N	8	23 S6	Ltd 80 oct.No storage.Pole line N.
Henderson	2.1 WNW;hwy S	410	19 S2	73 oct.
(N) Hitchcock NAF(LTA)(N)	2.3 SW;RR ENE	20	20h R1	
Humphrey (Goose Creek)(NC)	4 NNE;RR E	34	24	Pole line NW,W.
(P) Jefferson Co. (Beaumont)	9.8 SSE;hwy NE	15	51h R1 L5	
Lamar (Beaumont)	4 SE;riv NE	17	22 S4	80 oct.No sto.Poleline N,S.
Lufkin	2 NW;hwy N	315	31 L1 S6	73,80 oct.
Nacogdoches	4 WSW;hwy E	370	43h S5	80,91 oct.
→ Orange	2.6 W;RR S	20	18 L S1	73 oct. Port rnwy lgts.
Parker (Port Arthur)	4 NW;RR NE	6	34 S6	80 oct.
Preston (Houston)	2.5 WNW LaPorte	34	40	
Richter (Kirbyville)(NC)	1.5 S;RR E	175	16	
Sky Harbor (Anahuac)	0.3 S;hwy N	24	22 S1	80 oct.
Tri-Cities (Goose Creek)	2.6 N;RR E	25	24 S2	80 oct.Pole line SE.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — LOUISIANA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARATARIA FM	(- -)	FM, 171°, 20	New Orleans
BATON ROUGE (Harding)	347 (RX)	MRLWZ, 128°, 3.4	
LAFAYETTE	227 (UO)(116.1)	MHVT	(4): 116.1
LA PLACE FM	(- - -)	FM, 271°, 16.8	New Orleans
MADISONVILLE FM	(- - - -)	FM, 353°, 32	New Orleans
MOISANT AIRPORT (New Orleans)	278 (118.3)(126.18)	C (ILS)	(4): 131.9, 118.3, 126.18
→ NEW ORLEANS (Moisant)	339 (NO)(116.1)	SBRA2-VDT, 271°, 3.2	(3):116.1
New Orleans Airport	382 (126.18)	CA	(4) only.
New Orleans NAS	323 (142.74)	CN	(3); 142.74 (S-sunset)
NEW ORLEANS FM	(-)	FM, 63°, 11	New Orleans
MISSISSIPPI			
JACKSON AIRPORT	279(126.18)(118.7)	C	(4):126.18,118.7,131.9

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

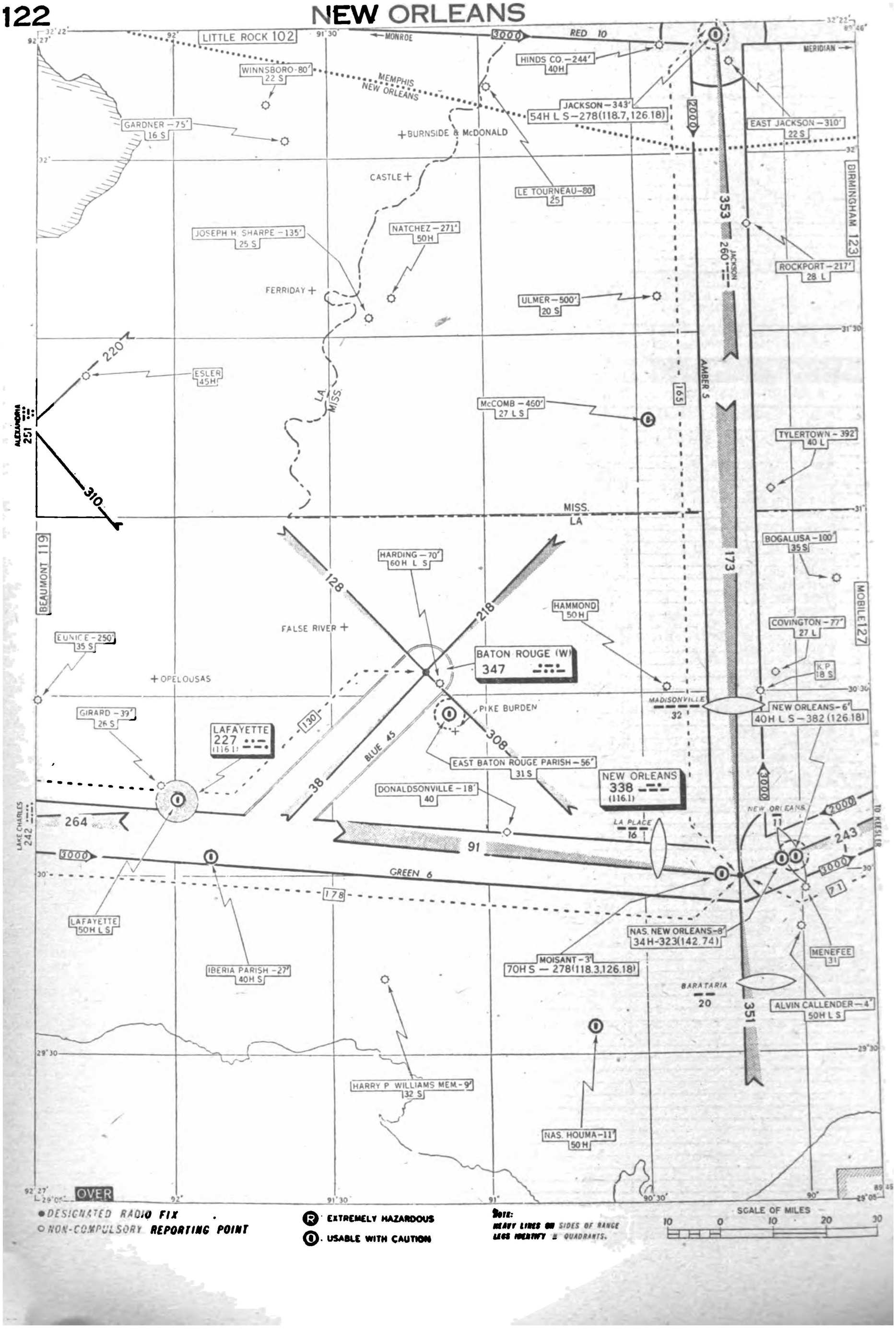
LOCATION	LOCALIZER	G.P.	AFFR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
MOISANT, LA.	109.9	333.8	100° Mag.	IM ••••(4.0)	MM	OM --(4.5)
					MKR	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — LOUISIANA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Alvin Callender (New Orleans)	9 SSE; RR E	4	50h L5 S4	73, 80, 91 oct.
Bogalusa	2.4 N; RR E	160	35 S6	73, 80 oct. No sto. Pole S.
Burnside & McDonald (Kewellton)	1 WSW	77	50	Data not verified.
Castle (St. Joseph)	2 N	75	20 S4	80 oct. No sto. Data not verified.
Chapman (New Orleans)(NC)	8.5 NE; lake N	4	22	15' trees NW. Cattle on field.
* Covington Int. 3, NO-LS	6 NNE; hwy W	77	27 L3	Pole line W.
→ * Donaldsonville Int. 26, HU-NO	3 ENE; hwy W	18	40 L3	Levee W. Closed ngts.
East Baton Rouge Parish (Baton Rouge)	4 E; hwy N, E	56	31 S4	80, 91 oct. Pole line S.
Esler (Alexandria)	11 NE; Bayou S	92	45h	
Eunice	1.7 W; hwy N	250	35 S2	80 oct.
False River (New Roads)	1.5 W	30	25 S1	80 oct. Data not verified.
Ferriday	1 N	55	18	Data not verified.
Gardner (Gilbert)	1 E; hwy S	75	16 S1	Ltd 73 oct.
Girard (Lafayette)	2.5 NW; hwy E	39	26 S6	80, 87 oct. Obsts sur fld.
Grand Isle (NC)	2.6 NE; hwy NW	4	22	
Hammond	2 ENE; RR S	40	50h	
→ HARDING (Baton Rouge)	5.8 NNE	70	60h L5 S2	91 oct. No ben
Harry P. Williams Mem'l(Patterson)	2 WNW; bet RR, hwy	9	32 L2 S2	73 oct. No ben. Lgts prior req. Pole line NW.
(N) Houma NAS (LTA)(N)	3.1 ESE; RR NE	11	50h	INACTIVE.
Iberia Parish (New Iberia)	5 NW; RR NE	27	40h L1 S6	73-91 oct. Ben prior req.
K-P (Covington)	1.6 NW; RR S	27	18 S2	80 oct.
Lafayette	1.5 SE; RR W	40	50h R1 L5 S1	91 oct. Pole line S.
Menefee (New Orleans)	5.2 E; riv S	1	31	Pole line S.
(H) MOISANT INTERNATIONAL(New Orleans)	11 W; riv S	3	70h R3 L5 S1	80,91,100 oct. Avail. only to Army, Navy, Airlines.
(A) New Orleans	6.5 NNE; RR S	8	40h R1 L4 S4	91, 100 oct; 100 oct Govt contract.
(N) New Orleans NAS (N)	4.6 N; on lake	7	34h R1	Tower NE.
Opelousas	1.5 NE	35	18	Data not verified.
Pike Burden (Baton Rouge)	5 SE	35	50 S1	80 oct. Data not verified.
Texaco (New Iberia)(NC)	2.6 N; hwy W	21	18	Poles W, WSW. Cattle on fld.
Winnsboro	1.2 ESE; RR SW	80	22 S1	80 oct.
MISSISSIPPI				
East Jackson (Jackson)	3.1 SSE; hwy NW	310	22 S6	80 oct. Trees N.
Hinds County (Jackson)	12.8 W	244	40h	
(A,N) JACKSON	3 NW; RR SW	343	54h R2 L5 S6	80, 91, 100 oct. Tank, stack E.
Joseph H. Sharpe (Natchez)	1.8 ESE; RR S	135	25 S2	73 oct.
LeTourneau (Yokena)	2.5 NW; riv W	80	25 L2 S4	No fuel. Lgts prior req. Caution - wet.
McComb	1.3 NW; hwy E	460	27 L3 S6	80,91 oct. No ben; lgts prior req. Obsts sur fld.
(P) Natchez	7.1 ENE; RR S	271	50h	
* Rockport Int. 12, NO-LS	1.5 E; riv W	217	28 L3	
* Tylertown Int. 7, NO-LS	6 SE; road E	392	40 L3	
Ulmer (Pymokraven)	1.5 NNE; RR W	500	20 S4	73 oct. No sto. Pole line N.

NEW ORLEANS

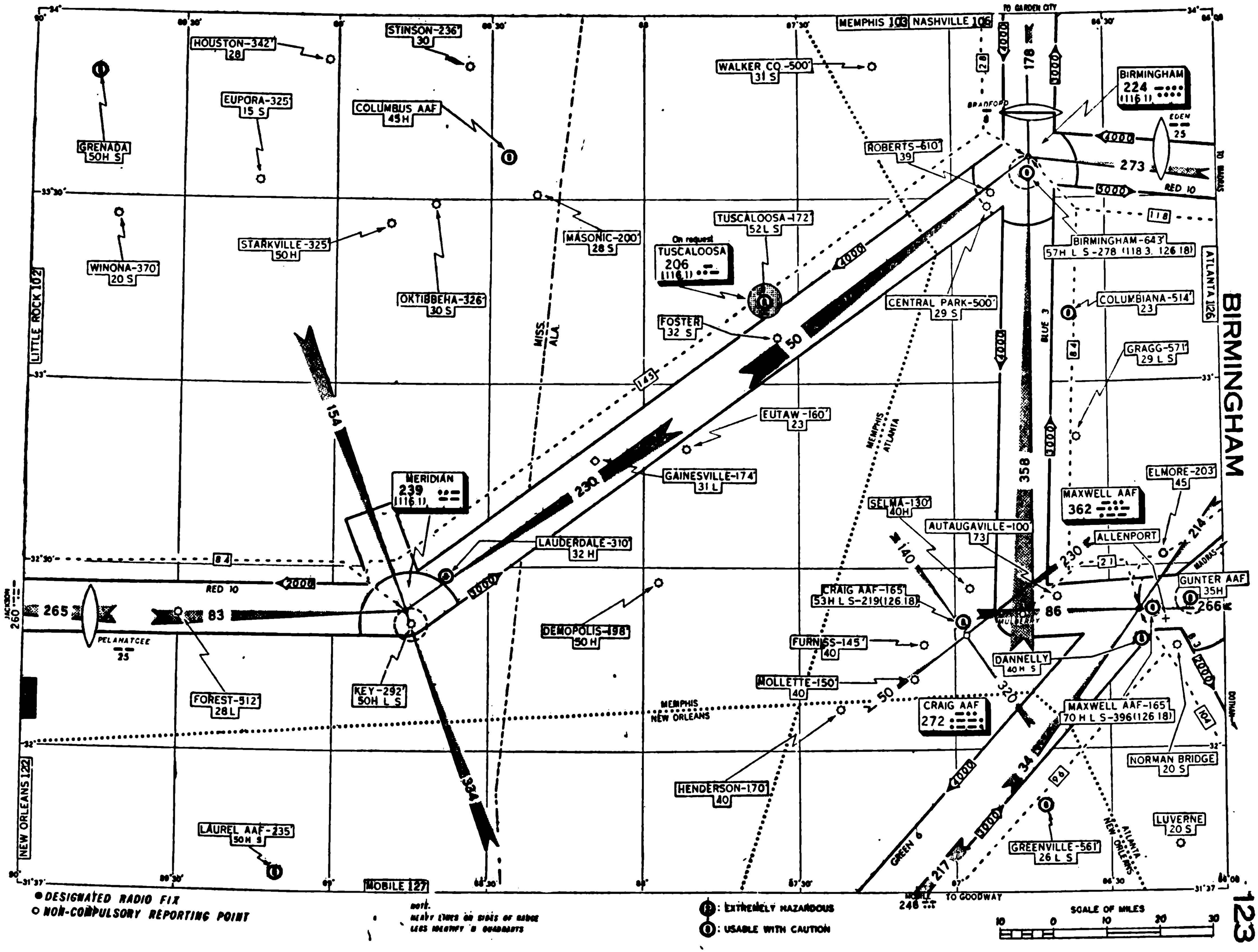


● DESIGNATED RADIO FIX .
○ NON-COMPULSORY REPORTING POINT

Ⓡ · EXTREMELY HAZARDOUS
Ⓞ · USABLE WITH CAUTION

NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS INDICATE 2 QUADRANTS.

BIRMINGHAM



● DESIGNATED RADIO FIX
○ NON-COMPULSORY REPORTING POINT

work.
HEAVY LINES ON SIDES OF RADIO
LESS WEIGHT TO BOUNDARIES

(R): EXTREMELY HAZARDOUS
(O): USABLE WITH CAUTION

BIRMINGHAM

RADIO — ALABAMA

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
→ BIRMINGHAM	224(BH) (116.1)	SBRAZ-VDT	(3); 116.1
Birmingham Airport	278 (126.18) (118.3)	AC, 178°, 3	(4); 116.1,140.1,131.9,126.18,118.3
BRADFORD FM	(-)	FM, 358°, 8	Birmingham
CRAIG (Selma)(Army)	272 (DPP)	MRLZ	(3);126.18
Craig Field	219 (126.18)	CA; 320°, 2.5	(3); 126.18
EDEN FM	(- -)	FM; 93°, 25.1	Birmingham
GUNTER FIELD(Montgomery)	201 (126.18)	CA	INACTIVE
MAXWELL (Montgomery)(Army)	362 (DXW)	SBRAZ	(4)
Maxwell Field	396 (126.18)	CA; 86°, 2	(4); 126.18
TUSCALOOSA	206(TU)(116.1)	MHVT	(4); 116.1

MISSISSIPPI

MERIDIAN (Key)	239(UM)(116.1)	SBRAZ-VDT;154°,2.8	(4); 116.1
PELAHATCHEE FM	(- -)	FM, 85°, 25	Jackson

S-Simultaneous Range and Voice, W-Without Voice, Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — ALABAMA

AIRPORT - CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Allenport (Montgomery)	4 SE	175	30 S5	80,91oct.183' twr NW.Data unver.
Autaugaville (Selma)	20.5 W	100	73	
(A) BIRMINGHAM	5.5 NE;RR S	643	57h R2 L5 S3	73-100oct.JP-1.Rdo rec req.
Central Park(Birmingham)	5.2 SW;RR E	500	29 S6	80 oct. No sto.
Columbiana	1.5 WNW	514	23	Lgt acft only.
(A) Craig (Selma)(A)	4.8 SSE	165	53h R2 L5 S6	91,100 oct.
DANNELLY (Montgomery)	7.5 SW;RR E	219	40h S1	80,91 oct.
(P) Demopolis	7.8 WSW;riv NW	198	50h	
(A) Elmore (Montgomery)(A)	10 N;hwy N	203	45	INACTIVE.
Eutaw	2 SE;hwy N	160	23	Pole line W.
Foster(Tuscaloosa)	5.5 S	236	32 S4	Ltd 73 oct.Pwr line E.
Furniss (Selma)	10 SSW	145	40	
* Gainesville Int,55,FV-AG	2 S;hwy W	174	31 L2	
Gragg,27,PS-TM(Clanton)	2.2 NE;creek S	571	29 L3 S2	80,91oct. Hill E.
Greenville,24,NO-AG	5.5 WNW;hwy S	561	26 L2 S4	80 oct.
(A) Gunter (Montgomery)(A)	5 NE	221	35h	INACTIVE.
Henderson (Selma)	29 SW; riv W	170	40	
Luverne	1.7 NNW;RR E	300	20 S1	73 oct.Pole line W.
(A) Maxwell(Montgomery)(A)	3 WNW	165	70h R2 L5 S6	73,91,100oct.No sto.JP-1
Mollette (Selma)	16.2 SSW	150	40	
Norman Bridge(Montgomery)	5.8 S;RR E	172	20 S4	73 oct. No sto.
Roberts (Birmingham)	3 W;RR N	610	39	
Selma-Selfield (Selma)	4 ENE;RR S	130	40h	
Tuscaloosa,59,FV-AG	3 NW;RR N	172	52 R1 L3 S6	73,80 oct.Pole,trees N.
Walker County (Jasper)	2.5 NNE;RR W	500	31 S2	80 oct.

MISSISSIPPI

(A) Columbus AAF (A)	10 N;RR E	205	45h	INACTIVE.
Eupora	1 NE;hwy S	325	15 S2	80 oct.Hill NW.
Forest,46,FV-AG	1 W;RR S	512	28 L3	
Grenada	3 N;RR S	197	50h L5 S2	80,91 oct.Ctc lgts req.
Houston	1.5 SW;hwy SE	342	28	Trees W,SE,N; bldg SE.
KEY (Meridian)	3.5 SW;RR E	292	50h R1 L5 S4	80,91 oct. Ctc lgts prior req.
Lauderdale Civil(Meridian)	9 NNE;hwy E	310	32h	
(A) Laurel AAF	3 SW;RR SE	235	50h L S4	80,91 oct.Portable rnwy lgts.INACTIVE.
Masonic (Columbus)	3.9 ENE;hwy S	200	28 S2	80 oct.
O'Keefe (Newton)(NC)	1.5 ESE;RR N	363	26	Trees NE,SE,NW.UNUSABLE.
Oktibbeha (Starkville)	7.5 ENE;hwy E	326	30 S6	73 oct.
(P) Starkville (Columbus)	2 SW Starkville	325	50h	
Stinson (Aberdeen)	3 NW;hwy NE	239	30	
Winona	1.3 SSE;RR W	370	20 S4	73,91oct. Lgt acft only.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (see page XIII) (NC)-Not charted. →

NEW OR REVISED DATA

ATLANTA
ALABAMA

RADIO

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ANNISTON	206 (K I)(116.1)	MHVT	(4): 116.1
GEORGIA			
→ ALBANY (Turner Aux. Fld. #1)	254 (GY)(116.1)	BMRLZ-VDT.298°2.3	(4): 116.1 (VDT Stn lctd at Albany Arpt.)
→ ATLANTA	266 (AG)(116.1)	SBRAZ-VDTX	(3): 116.1
Atlanta Airport	278 (118.7)(126.18)	AC (ILS):331°,1.9	(4):126.18,142.74,118.7, 131.9, 126.18
Atlanta (Navy)	323 (NCQ)	MRLWZ	
Atlanta NAS	356 (142.74)	CN: 86° 3.2	3105,4495,3117.5,142.74
EAST POINT LFM	(- - - -)	LFM, 331°,6.5	Atlanta
JONESBORO	219 (H)	FMK: 133°,11	Atlanta
JONESBORO FM	(- -)	FM, 133°, 11	Atlanta
LAWSON, (Columbus)(Army)	379 (DVL)	MRLZ	
Lawson Field	278 (126.18)	CA; 21°, 3.3	(3): 126.18
MACON (Herbert Smart)	209 (UN)(116.1)	BMLZ-VDT:246°,4.8	(4): 116.1
MADRAS FM	(- - -)	FM, 230°, 22.8	Atlanta
MARIETTA AAF	396 (126.18)	CA	4495,6210,126.18 (8-20)
SMYRNA FM	(. - - - - -)	FM, 331°, 22	Atlanta
STONE MOUNTAIN FM	(.)	FM, 55°, 17.25	Atlanta
→ TURNER LFM (Army)(NC)	(- - -)	FM, 202°, 11.6	Albany (On req)
WARNER-ROBINS (Robins Fld)	284(126.18)	CA	(3):126.18

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

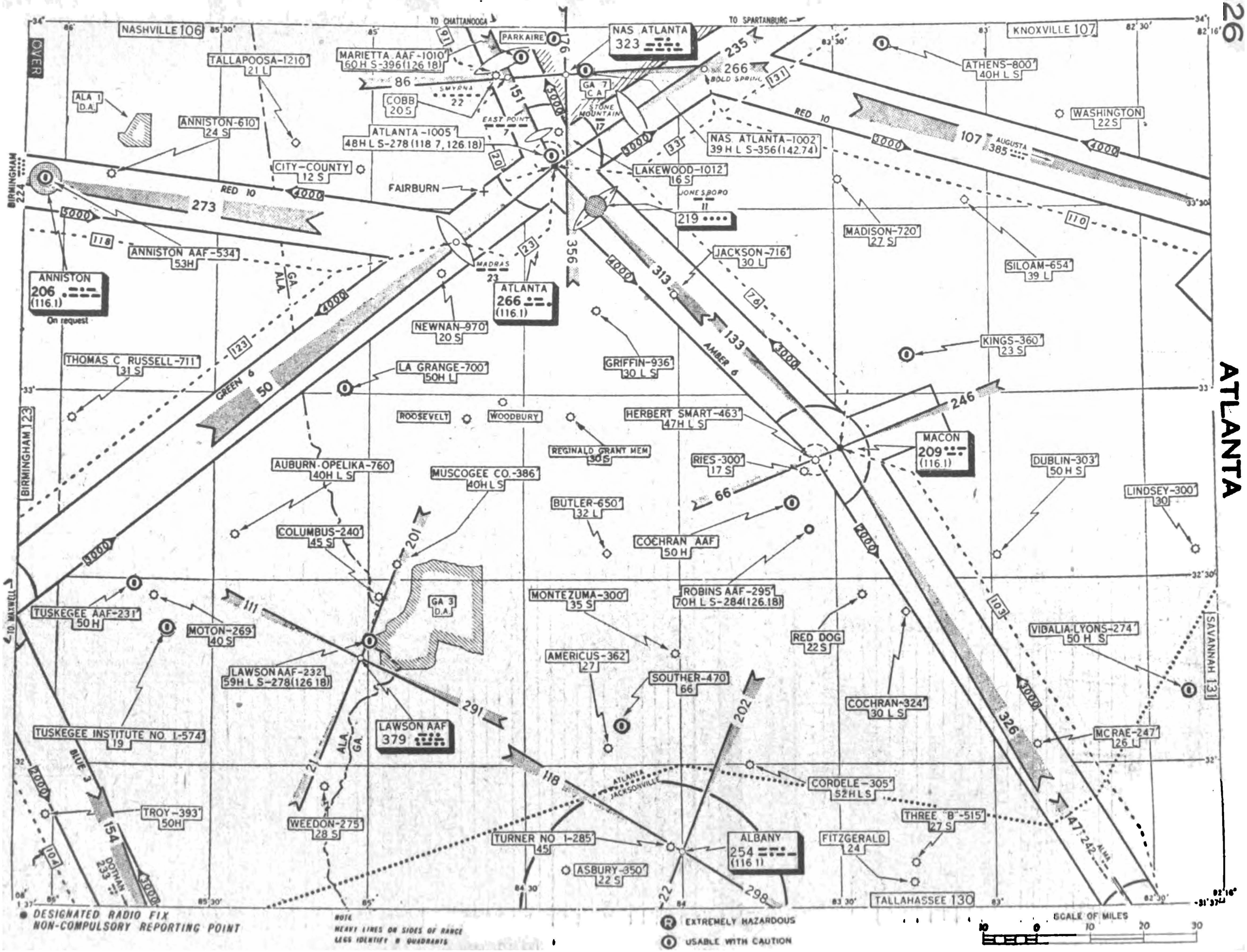
LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
ATLANTA, GA.	109.9		329° Neg.	IM	MM	OM -- (3.1)
					VHK 201 ···· (.68)	OMK

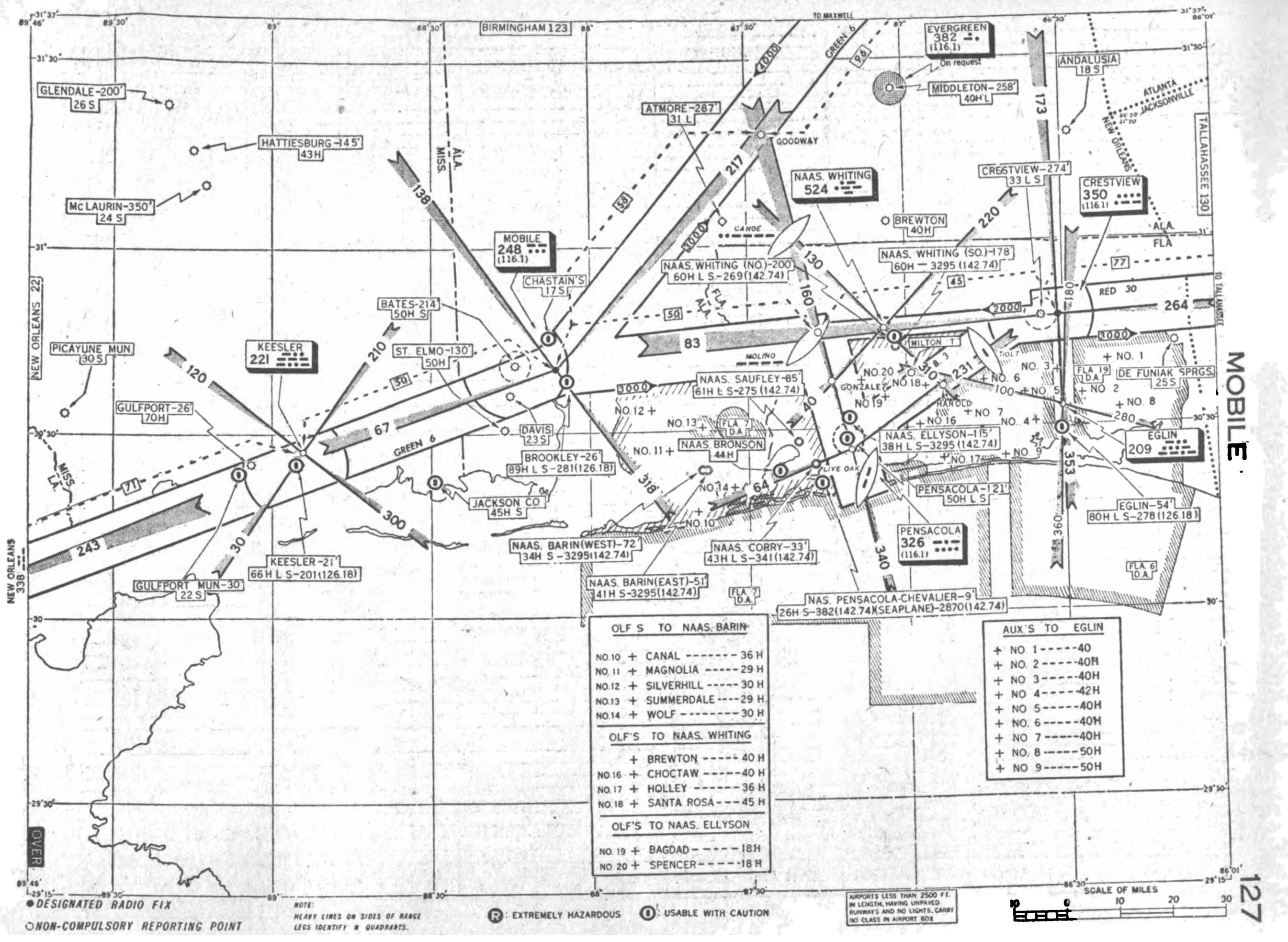
S-Simultaneous Range and Voice; W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117 5 kcs
Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

AIRPORTS
ALABAMA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Anniston	5.5 SSW	610	24 S3	80 oct. Pole line W, lgtd.
(A) Anniston AAF (A)	15 SW; hwy N	534	53h R1	INACTIVE.
(P) Auburn-Opelika (Auburn)	2.8 E; RR N	760	40h L5 S5	80 oct. Fld lgts prior req.
Moton (Tuskegee)	3 N; RR,riv E	269	40 S6	73-91 oct. No sto. Twr S end.
Talladega (NC)	2.6 NE; RR SE	590	20	Pole line E, hill W.
Thomas C. Russell(Alexander Cy	1.5 SW; hwy E	711	31 S5	80 oct.
(P) Troy	4.8 NNW, rd E	393	50h	
(A) Tuskegee AAF (A)	7.3 NW; RR S	231	50h	INACTIVE.
Tuskegee Institute #1	4 SSE; hwy W	574	19	
Weedon (Eufaula)	4.3 NNE; hwy E	275	28 S2	80 oct.
GEORGIA				
Americus	1.5 S; RR W	362	27	Trees E, W, NE.
Ashbury (Dawson)	5.7 SE; RR N	350	22 S1	Ltd 80 oct. Pole NNW.
Athens	3.5 E; RR N	800	40h L4 S6	80, 91 oct.
(A) ATLANTA	8 S; RR N	1005	48h R3 L6 S6	73-100 oct.Rdo rec req.Trees NW.
(N) Atlanta NAS (N)	8.5 NNE; hwy SE	1002	39h R2 L6 S6	100 oct. NAFC.
★ Butler Int,14, T I-AG	0.5 NW; RR S	650	32 L3	Poles S.
City-County (Carrollton)	3.3 NE; hwy E	1200	12 S1	Ltd 73 oct.
Cobb (Marietta)	6.4 SSW, rd S	1050	20 S6	Ltd 80 oct.No sto.Trees NW.
(A) Cochran (Macon) (A)	10 S; RR E	352	50h	INACTIVE.
★ Cochran Int,50,MM-AG	5 NE; rd N	324	30 L2 S6	80 oct. Poles NW, NE, S, SE.
Columbus	1.5 SSE; riv SW	240	45 S4	80 oct.
(P) Cordele	1.6 NNE; RR W	305	52h L3 S1	80 oct.
(N,P) Dublin	4.5 WNW; hwy S	303	50h S1	73 oct.
Fairburn	3.5 SW; RR S		24 S2	80 oct.Hi-line SE. Data not verified.
Fitzgerald	2 SSW; RR W,E	365	24	
Griffin	1.5 S;hwy E	936	30 L3 S6	80 oct. Twr E.
HERBERT SMART (Macon)	4 ESE;hwy W	463	47h R1 L5 S6	80,91 oct.,
★ Jackson Int, 57, MM-AG	4.6 SW; rd S	716	30 L3	Barn E; bldg W.
Kings (Milledgeville)	1.5 NW; RR W	360	23 S4	80 oct. No sto.
(P) La Grange	3 SW; RR ESE	700	50h L2	
Lakewood (Atlanta)	4 S; hwy W	1012	16 S4	80 oct. Pwr line SE end NW-SE strip.
(A) Lawson (Columbus) (A)	9.5 S; riv W	232	59h R2 L5 S6	91,100 oct. No sto.
Lindsey (Swainsboro)	2.3 S; RR W	300	30	Pole line E.
→ McRae 47,MM-AG	2 SE; RR NE	247	26 L3	
Madison	2 SSW; RR E	720	27 S2	80 oct. Pwr line SSE.
(A) Marietta AAF (A)	2.5 SE	1010	60h R1 L5 S4	73-100 oct. JP-1. Lgts avail. up to 2000.
Montezuma	1.5 E; RR S,W	300	35 S1	Ltd 80 oct.
Morton (Palmetto)	1.8 NNE; RR SW	1020	24 S6	80 oct.
MUSCOGEE CO.(Columbus)	6 NE; Hwy E	386	40h L5 S6	80,91 oct. Fld lgts prior request.
Newnan Airpark	3.7 SE; RR W	970	20 L1 S1	80 oct.
Red Dog (Cochran)	6.2 NW; RR W	300	22 S4	80 oct. Trees N, E.
Reginald Grant Mem'l(Thomaston)	3.7 NNW;hwy NE	750	30 S4	80 oct. Trees S.
Ries (Macon)	4.5 SE; RR W	300	17 S1	Ltd 80 oct - emerg. Trees N, E.
(A) Robins (Warner-Robins)(A)	1.5 NE Wellston	275	70h R1 L5 S6	62,73,91,100 oct. JP-1.
Roosevelt (Warm Springs)	3.5 N; hwy W	870	22 S2	80 oct. Trees SE, SW, NW.
★ Siloam Int,7B, AG-CS	1.3 S; road W	654	39 L3	82' mast SE corner N/S strip.
Souther (Americus)	4 NE; RR W	470	66	
★ Tallapoosa Int,73,FV-AG	5.5 SSE	1210	21 L3	Trees SE; house NW.
Three "B" (Fitzgerald)	1.5 N	515	27 S1	80 oct.
Turner #1 (Albany)	15 NE	285	45	
(A) Vidalia-Lyons	3.2 SE; hwy N	274	50h S1	80 oct.
Washington	1.4 NW; RR SE	600	22 S1	80 oct.
Parkaire(Marietta)	7.7E;hwy SW	1100	22 S1	80 oct.
Woodbury	1.5 E	770	16 S1	Fuel. Data unver.

h-hard surfaced runways, R-radio facilities. L-lighting facilities. S-servicing. (See page X111) (NC)-Not charted. → NEW OR REVISED DATA


NASHVILLE 106
TO CHATTANOOGA
TO SPARTANBURG
KNOXVILLE 107
OVER
TALLAPOOSA-1210
21 L
MARIETTA AAF-1010
60 H S-396(126.18)
PARKAIRE
NAS ATLANTA
323
ATHENS-800
40H L S
ALA 1
D.A.
ANNISTON-610
24 S
COBB
20 S
SMYRNA
22
EAST POINT
7
GA 7
C A
STONE MOUNTAIN
17
WASHINGTON
22 S
ATLANTA-1005
48H L S-278 (118 7, 126.18)
NAS ATLANTA-1002
39 H L S-356(142.74)
BOLD SPRING
AUGUSTA
385
BIRMINGHAM
224
CITY-COUNTY
12 S
FAIRBURN
LAKEWOOD-1012
16 S
JONESBORO
11
219
RED 10
273
ANNISTON AAF-534
53H
MADISON-720
27 S
JACKSON-716
30 L
SILOAM-654
39 L
ANNISTON
206
(116.1)
On request
GA
ALA
MADRAS
23
ATLANTA
266
(116.1)
NEWNAN-970
20 S
GRIFFIN-936
30 L S
KINGS-360
23 S
THOMAS C RUSSELL-711
31 S
LA GRANGE-700
50H L
GREEN 6
50
AMBER 6
133
313
246
ROOSEVELT
WOODBURY
HERBERT SMART-463
47H L S
MACON
209
(116.1)
BIRMINGHAM 123
REGINALD GRANT MEM
30 S
RIES-300
17 S
DUBLIN-303
50 H S
LINDSEY-300
30
AUBURN-OPELIKA-760
40H L S
MUSCOGEE CO.-386
40H L S
BUTLER-650
32 L
COCHRAN AAF
50 H
COLUMBUS-240
45 S
201
66
TUSKEGEE AAF-231
50 H
MOTON-269
40 S
GA 3
D.A.
MONTEZUMA-300
35 S
ROBINS AAF-295
70H L S-284(126.18)
RED DOG
22 S
VIDALIA-LYONS-274
50 H S
SAVANNAH 131
AMERICUS-362
27
SOUTHER-470
66
LAWSON AAF-232
59H L S-278(126 18)
LAWSON AAF
379
COCHRAN-324
30 L S
MCRAE-247
26 L
TUSKEGEE INSTITUTE NO 1-574
19
BLUE 3
154
DOTHAN
233
TROY-393
50H
WEEDON-275
28 S
CORDELE-305
52HLS
THREE "8"-515
27 S
TURNER NO 1-285
45
ALBANY
254
(116 1)
FITZGERALD
24
ASBURY-350
22 S
TALLAHASSEE 130
ATLANTA
JACKSONVILLE
326
147
242
298
202
291
111
118
22
21
103
104
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE
HEAVY LINES ON SIDES OF RANGE
LEGS IDENTIFY 8 QUADRANTS
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
SCALE OF MILES
10 0 10 20 30


MOBILE
BIRMINGHAM 123
TO MAXWELL
GREEN 6
GLENDALE-200'
26 S
HATTIESBURG-145'
43H
Mc LAURIN-350'
24 S
ATMORE-287'
31 L
GOODWAY
EVERGREEN
382
(116.1)
On request
MIDDLETON-258'
40H L
ANDALUSIA
18 S
ATLANTA
JACKSONVILLE
NEW ORLEANS
TALLAHASSEE 130
NAAS. WHITING
524
CRESTVIEW-274'
33 L S
CRESTVIEW
350
(116.1)
BREWTON
40H
CANOE
MOBILE
248
(116.1)
CHASTAIN'S
17 S
NAAS. WHITING (NO.)-200'
60H L S-269(142.74)
NAAS. WHITING (SO.)-178'
60H — 3295 (142.74)
ALA.
FLA
RED 30
264
TO TALLAHASSEE
BATES-214'
50H S
PICAYUNE MUN.
30 S
KEESLER
221
ST. ELMO-130'
50H
NEW ORLEANS 22
MILTON T
NAAS. SAUFLEY-85'
61H L S-275 (142.74)
MOLINO
DE FUNIAK SPRGS.
25 S
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5
NO. 6
NO. 7
NO. 8
NO. 9
NO. 10
NO. 11
NO. 12
NO. 13
NO. 14
NO. 16
NO. 17
NO. 18
NO. 19
NO. 20
GONZALEZ
HAROLD
FLA 19 D.A.
FLA 7 D.A.
GULFPORT-26'
70H
DAVIS
23 S
BROOKLEY-26'
89H L S-281(126.18)
NAAS. BRONSON
44H
JACKSON CO
45H S
MISS. LA.
NAAS. ELLYSON-115'
38H L S-3295 (142.74)
EGLIN
209
PENSACOLA-121'
50H L S
EGLIN-54'
80H L S-278 (126.18)
PENSACOLA
326
(116.1)
LIVE OAK
NAAS. BARIN(WEST)-72'
34H S-3295(142.74)
NAAS. CORRY-33'
43H L S-341(142.74)
KEESLER-21'
66H L S-201(126.18)
GULFPORT MUN-30'
22 S
NAAS. BARIN(EAST)-51'
41H S-3295(142.74)
NAS. PENSACOLA-CHEVALIER-9'
26H S-382(142.74)(SEAPLANE)-2870(142.74)
NEW ORLEANS
338
OVER
OLF S TO NAAS. BARIN
NO.10 + CANAL ------- 36 H
NO. 11 + MAGNOLIA ----- 29 H
NO.12 + SILVERHILL ----- 30 H
NO.13 + SUMMERDALE ---- 29 H
NO.14 + WOLF -------- 30 H
OLF'S TO NAAS. WHITING
+ BREWTON ----- 40 H
NO.16 + CHOCTAW ----- 40 H
NO.17 + HOLLEY ------ 36 H
NO.18 + SANTA ROSA --- 45 H
OLF'S TO NAAS. ELLYSON
NO. 19 + BAGDAD ----- 18H
NO 20 + SPENCER ----- 18 H
AUX'S TO EGLIN
+ NO. 1 -----40
+ NO. 2 -----40H
+ NO 3 -----40H
+ NO 4 -----42H
+ NO 5 -----40H
+ NO. 6 -----40H
+ NO 7 -----40H
+ NO. 8 -----50H
+ NO 9 -----50H
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE:
HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY R QUADRANTS.
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX
SCALE OF MILES
0 10 20 30
127

LOCATION	FREQ., IDENT	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BARIN FIELD NAAS(Foley) East Field	3295(142.74)	CN	3105;142.74
BARIN FIELD NAAS(Foley) West Field	3295(142.74)	CN	3105;142.74
BROOKLEY FIELD(Mobile)	281 (126.18)	CA	(4); 126.18
CANOE FM	(. . - - - -)	FM, 310°, 24.9	Whiting NAAS
EVERGREEN (Middleton)	382(EN)(116.1	MHVT	(4);116.1
MOBILE (Brookley)	248(MS)(116.1)	SBRAZ-VDT;138°, 3	(4);116.1
FLORIDA			
CORRY FLD NAAS(Pensacola	341(142.74)	CN	3105;142.74
CRESTVIEW	350 (HW) (116.1)	SBRAZ-VDT;264°,2.6	(4);116.1
EGLIN (Valparaiso)(Army)	209 (DVQ)	MRLPZ	(Voice 6-24)(3);126.18
Eglin Field	278(126.18)	CA;180°,4	(3);4220,126.18 (6-24)
ELLYSON FLD NAAS (Pensacola)	3295(142.74)	CN	3105;142.74 (8-16)
HOLT FM	(-)	FM, 51°, 31.2	Pensacola
LIVE OAK FM	(- -)	FM, 160°, 6	Pensacola
MOLINO FM	(- - - -)	FM, 340°, 21.4	Pensacola
PENSACOLA	326(KH)(116.1)	SBRAZ-VDT;340°,2.1	(4); 116.1
Pensacola-Chevalier NAS	382 (142.74)	CN	(4):142.74(sunrise-30 mins after sunset.
Pensacola-Chevalier NAS (Seaplane)	2870(142.74)	CN	3105.4495:142.74(730-1630 except Sat,Sun. & holidays).
SAUFLEY FLD NAAS (Pensacola)	275 (142.74)	CN	3105,4495;142.74
WHITING (Milton)(Navy)	524 (AWT)	MRLZ	
Whiting Fld NAAS(North)	269 (142.74)	CN;130°,3.2	3105,4495;142.74
Whiting Fld NAAS(South)	3295(142.74)	CN	3105;142.74(7-22)
MISSISSIPPI			
KEESLER(Biloxi)(Army)	221 (DOX)	BMRLZ	(4); 4220
Keesler Field	201 (126.18)	CA; 210°, 2.9	(4); 4220

S-Simultaneous **Range and** Voice; W-Without Voice; **Z-VHF** Station **Location** Marker **at Range Station;** (3)-3105,4495,6210 **kcs.** (4)-3105,4495,6210,3117.5. kcs. Parenthetical Numbers **in the** Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Andalusia	1.7 SSE;RR N	340	18 S1	80 oct.
★ Atmore Int,16,NO-AG	6 NW;at rd int	287	31 L3	
(N) Barin NAAS-East(Foley)	2.7 ESE	51	41h R1 L1 S4	91 oct.
(N) " -West(Foley)	2.7 ESE	72	34h R1 L1 S4	91 oct.
BATES (MOBILE)	10 W;rd N,S	214	50h S6	80,91 oct.
Brewton (old)(NC)	2.5 N;hwy E	100	23	UNUSABLE.
(P) " (new)	3.5 S;riv N	92	40h	
(A) Brookley (Mobile)(A)	3 SSW;RR NW	26	99h R2 L5 S4	62,73,91,100oct.JP-1
(N) Canal OLF (Foley)(N)	8 S;rd W	16	36h	
Chastain's(Prichard)	3.5 NW;RR E	50	17 S1	80 oct.
Davis (Mobile)	12.1 WSW;RR E	180	23 S1	73 oct.
(N) Faircloth (Lillian)(N)	3 NW; bay E	70	37	
(N) Kaisers Tract OLF (Elberta) (N)(NC)	3.3 ENE;hwy S	90	25	
(N) Magnolia OLF (Foley)(N)	5.4 NW	83	29h	
(P) Middleton (Evergreen)	6 WSW; hwy N	258	40h R1 L5	Fld lgts prior req.
St. Elmo	1 WSW; RR S	130	50h	
(N) Silverhill OLF (N)	3.5 WNW	129	30h	
(N) Summerdale OLF (N)	3.5 ENE;RR W	129	29h	
(N) Wolf OLF (Josephine)(N)	1.5 N; bay E	54	30h	

h-hard surfaced runways. R-radio facilities L-lighting facilities. S-servicing.(See page xiii)(NC)-Not charted. → NEW OR REVISED DATA

AIRPORT — CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(N) Bagdad OLF (Pensacola)	14 NE;RR SE	111	18h	Use rnwys.(N)
(N) Bronson NAAS(Pensacola(N)	12 WSW;bay W	27	44h	INACTIVE.
(N) Choctaw OLF (Pensacola)	15 ENE	111	40h	(N)
Crestview,21,NO-JX	2.5 N;RR E	274	33 R1 L2 S6	80 oct. No sto.
De Funiak Springs	1 W;RR N	197	25 S1	80 oct. Pwr line N.
(A) Eglin (Valparaiso)(A)	1.8 SW;hwy SE	54	80h R2 L5 S4	73-100 oct. JP-1. No sto.
(A) " #1 " (A)	13.7 NNE	238	40h	
(A) " #2 " (A)	6.1 NNE	157	40h	
(A) " #3 " (A)	10 N	192	40h	
(A) " #4 " (A)	6.2 W	92	42h	
(A) " #5 " (A)	10 NW	178	40h	
(A) " #6 " (A)	18.2 WNW;riv NW	136	40h	
(A) " #7 " (A)	19.5 W	133	40h	
(A) " #8 " (A)	10.3 ENE	113	50h	
(A) " #9 " (A)	13.7 WSW	35	50h	
(N) Ellyson NAAS(Pensacola)	7.5 NNE;bay E	115	38h R1 L S6	73,91 oct.E and W flds.CLSD.(N).
Gulf Airpark (Pensacola	3 NW		17	Data not verified. (NC)
(N) Helm OLF (Pensacola)(N)	12 NW	100	54	(NC)
(N) Holley OLF (N)	1.5 S;riv N	37	36h	
Milton "T" (NC)	3.5 ENE;RR S	150	53 S3	80 oct.
(P) PENSACOLA	4 NNE;bay E	121	50h R1 L5 S6	80,91 oct.
(N) " NAS (Chevalier)(N)	5.3 SW;RR W	9	26h R1 L S6	91 oct.Flood,obst lgts.
(N) " NAS (Corry)(N)	5 WSW;hwy SE	33	43h R1 L4 S6	91 oct.Obsts N,E,W.
(N) " OLF #1 (N)(NC)	14 NW;riv 3 W	100	46	
(N) " OLF #5 (N)(NC)	10 NNW;RR W	115	57	
(N) " OLF #6 (N)(NC)	10 NNW;RR E	110	48	
(N) " OLF #7 (N)(NC)	7 NW	103	37	
(N) " OLF #8A (N)(NC)	13 NW	100	73	
(N) " OLF #9K (N)(NC)	11.5 NNW;RR E	110	50	
(N) Santa Rosa OLF (Milton)	6 E;rivs N,S,W	150	45h	(N)
(N) Saufley NAAS (Pensacola)	8.5 WNW;bay SW	85	61h R1 L5 S4	87,91 oct. (N)
(N) Spencer OLF (Pensacola)	15 NNE;bay S	145	18h	(N)
(N) Whiting NAAS-North (Milton)(N)	6 N	200	60h R2 L6 S4	73,91,100 oct.
(N) " " -South (Milton)(N)	5 N	178	60h R1	Use N fld. INACTIVE.
MISSISSIPPI				
Ellisville (NC)	1.3 SW;RR SE	240	18	
Glendale(Hattiesburg)	5 NNW;hwy E	200	26 S3	80 oct.
Gulfort	3.4 NE	26	70h	
" mun.	1.3 N;RR E	30	22 L1 S1	80 oct.Twrs SE,NNE,lgtd.
Hattiesburg	5 SSE;RR SW,NE	145	43h	Poles W,NW
Jackson Co.(Pascagoula)	3.5 ENE;RR N	16	45h L5 S6	80,91 oct.
(A) Keesler (Biloxi)(A)	2 WNW;bay N	21	66h R2 L5 S5	73,91,100 oct.Rdo rqd ngts.
McLaurin	1 NNE;RR W	350	24 S4	73 oct.Lgt acft only.
Picayne	2.3 NNE	92	30 S4	73 oct.No sto.Trees N,SW.

TALLAHASSEE

RADIO

ALABAMA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
DOTHAN	233(NI)(116.1)	SBRAZ-VDT,47°,3.7	(4);116.1

FLORIDA

CROSS CITY	269 (FC)(116.1)	SBMRAZ-VDT,315°,2.7	(4), 116.1
DALE MABRY FLD (Tallahassee)	281 (126.18)(118.3	C, 85°, 2.7	(4), 126.18, 118.3
TALLAHASSEE (Dale Mabry Fld)	335 (TJ)(116.1)	SBRAZ-VDT,85°,2.7	(4), 116.1
TYNDALL (Panama City)(Army)	203 (DKE)	BMRLZ	Voice 8-23. (3); 126.18
Tyndall Field	272 (126.18)	CA, 313°, 3	(3), 126.18 (8-24)

GEORGIA

ALMA (Int.)	242 (AJ)(116.1)	SBRAZ-VDT,144°,2.2	(4), 116.1
→ TURNER LFM (Army)(NC)	(- - -)	FM,202°,11.6	Albany (On req)

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ALABAMA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
DOTHAN	2.5 WNW	322	40h R1 L5	
Enterprise	0.5 NE	355	22	
Headland	2 NE,hwy N	350	48	
Napier (Dothan)	7.5 NW,RR S	396	45h	
(A) Ozark AAF (A)	12 SSW	305	46h	INACTIVE
Southern Airmotive	2 SE,RR W	322	27 S4	80 oct. Twr NW. (Dothan)

FLORIDA

(A) Alliance #4 (Mariana)(A)	14 SE	215	50h	INACTIVE
(A) Apalachicola AAF (A)	2 W,RR N	19	53h	INACTIVE
Bascom (Mariana)	15.5 NE	120	50h	
Carrabelle Flgt Strip	2.6 W,hwy S	20	40h	
Chipley	1.5 SE,hwy N	100	24 S1	80 oct. Trees around fld.
Cross City	1 SE,RR SW	42	50h R1 L5	No beacon
DALE MABRY (Tallahassee)	3 W, RR S	70	52h R2 L5 S4	80, 91 oct.
Ellis (Mariana)	9.5 N,riv W	116	50h	
Jasper ,43,NO-JX	3.5 SSE,RR NE	143	36 L3	Poles W. Power line NE.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct. Lgts prior req.
(N) Lake Butler OLF (N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lake Jackson(Tallahassee	9 NNW,riv NW	250	30 S4	80 oct. No sto.
Live Oak	1 W,RR W	105	26 S1	80 oct. Pole line N,NE,SW. Hwy N.
Malone #2 (Mariana)	15.5 N	154	50h	
Mariana	6 NE,hwy E	112	50h L5 S4	80 oct. Fld lgts prior req.
Montbrook (Williston)	3.2 SSW,hwy E	70	70h	
Monticello (NC)	1.5 SW,hwy E	160	25	
Panama City	5 NW,bay N,S,W	5	19 S6	80 oct.

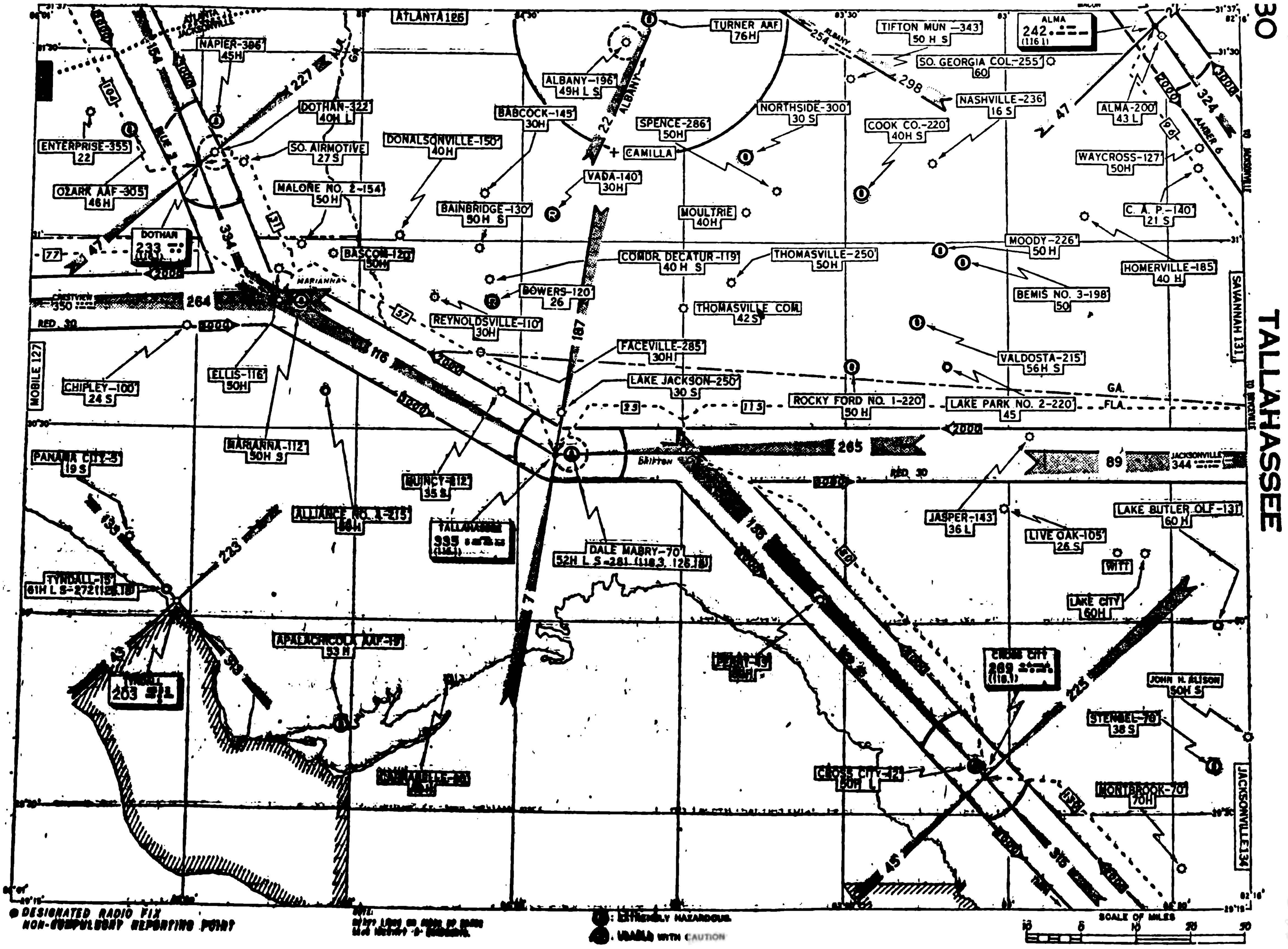
FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Perry	3 S,RR E	43	50h	
Perry Municipal	0.5 NE	43	20	Trees NE,SW.
Quincy	1.5 NE,RR S	212	35 S1	80 oct.
Stengel(Gainesville)	4 WSW,RR SE	70	38 S6	80 oct. Trees around fld.
→ Tennile (NC)	2.2 SSW;rd E	35	20	Trees SW Road E.
(A) Tyndall (Panama City)	8 SE	15	61h R2 L5 S6	73,91,100 oct. Gulf of Mexico SW. (A)
Witt (Lake City)	2 WSW;hwy S	200	36 S4	80 oct. No sto.

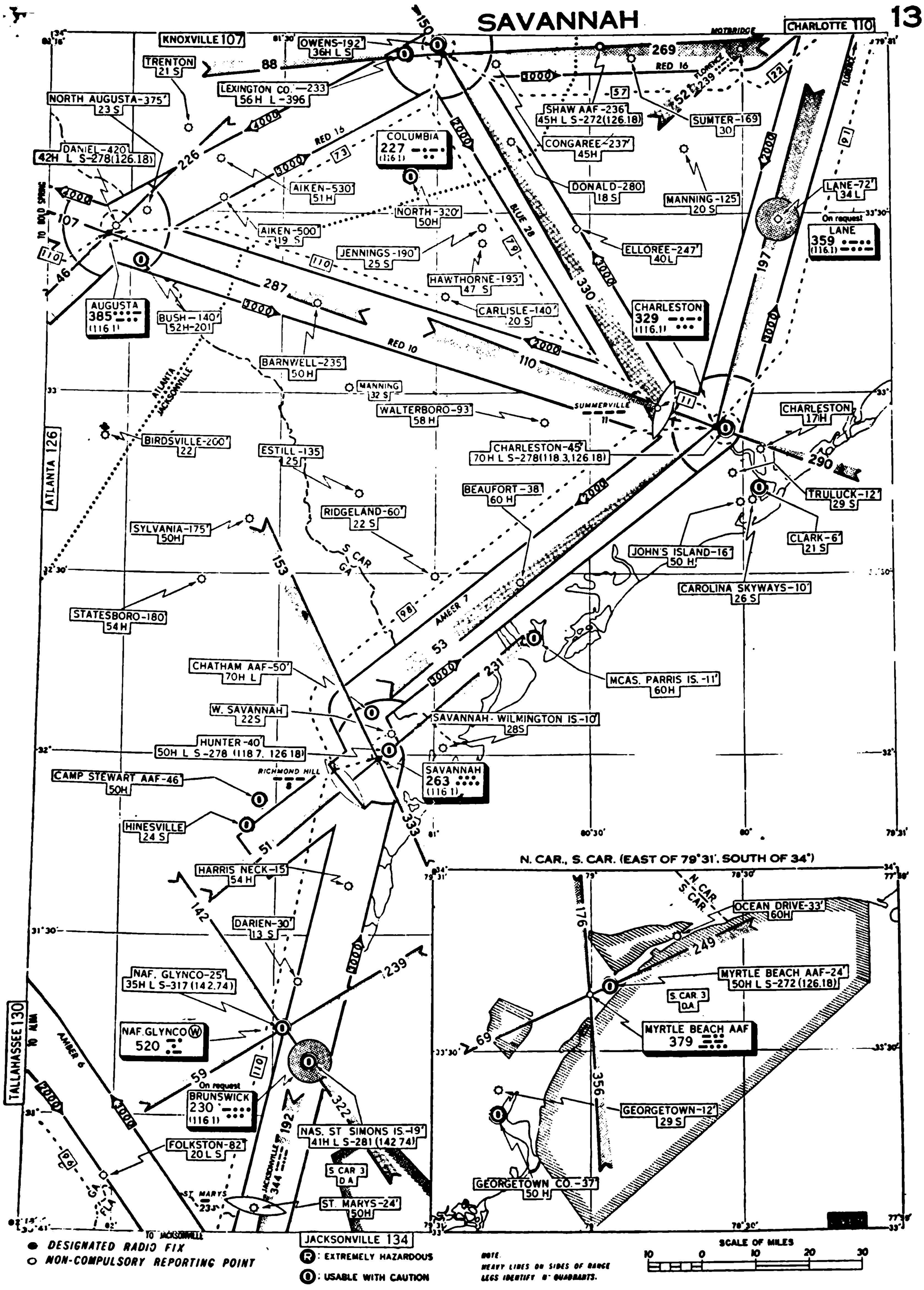
GEORGIA

(P) ALBANY	4 SW, RR N	196	49h R1 L5 S6	80, 91 oct.
Alma Int,43,MM-AG	2.5 W,hwy N	200	43 R1 L3	
Babcock(Bainbridge)	3.5 ENE Boykin	145	30h	
Bainbridge	7 NNW,RR NE	130	50h S6	80, 91 oct.
(A) Bemiss #3 (Valdosta)(A)	12 NE,hwy SE	198	50	INACTIVE
Bowers (Bainbridge)	4.5 S,rd W	120	26	Trees sur fld. Closed. High weeds.
Camilla	0.7 NW		22 S1	80 oct. Data not verified.
Civil Air Patrol (Waycross)	2.6 WSW,RR SE	140	21 S1	80 oct. Obsts surround fld.
Commodore Decatur	2 W,riv S	119	40h S1	80 oct. (Bainbridge)
Cook County (Adel)	1.3 W,hwy NE	220	40h L3 S6	80, 91 oct.
Donalsonville(Bainbridge)	1 S Donalsonv'l	150	40h	
Faceville(Bainbridge)	3.5 S Faceville	285	30h	
Homerville Flgt Strip	2.5 NW,hwy NE	185	40h	
(A) Lake Park #2(Valdosta)	12.5 SSE,hwy N	220	45	INACTIVE (A)
(A) Moody (Valdosta)(A)	11.5 NNE,RR W	226	50h	INACTIVE
Moultrie	7 S,hwy NW	287	40h	
Nashville	1.3 ENE,RR S	236	16 S6	80 oct.
Northside (Moultrie)	3.2 NNW,RR W	300	30 S4	80 oct. No sto.
Reynoldsville (Bainbridge)	1.7 SSW Reynoldsville	110	30h	
(A) Rocky Ford #1 (A)	16 SW,hwy N	220	50h	INACTIVE (Valdosta)
South Georgia College	1.3 S,RR W	225	60	(Douglas)
Spence (Moultrie)	5 SE,hwy W	288	50h	
(P) Thomasville	8.5 ENE,hwy S	250	50h	
Thomasville, com.	1 SW,RR N	250	42 S4	80 oct. Trees sur fld.
Tifton Mun.	2.3 SE,hwy W	343	50h L5 S4	80,91 oct. Lgts prior req.
Turner (Albany)(A)	3.8 ENE,riv N	212	76h	INACTIVE.
Vada (Bainbridge)	3 NE of Vada	140	30h	
(A) Valdosta	2.5 S,hwy E	215	56h S1	80 oct. for civil aircraft.
(P) Waycross	4 NW,hwy E	127	50h	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page XIII)(NC)-Not charted. → NEW OR REVISED DATA


ATLANTA 186
NAPIER-386 45H
ALBANY-196 49H L S
TURNER AAF 76H
TIFTON MUN -343 50 H S
SO. GEORGIA COL.-255 60
ALMA 242.0 (116.1)
DOTHAN-322 40H L
BABCOCK-145 30H
SPENCE-286 50H
NORTHSIDE-300 30 S
NASHVILLE-236 16 S
ALMA-200 43 L
ENTERPRISE-355 22
SO. AIRMOTIVE 27 S
DONALSONVILLE-150 40H
CAMILLA
COOK CO.-220 40H S
WAYCROSS-127 50H
OZARK AAF-305 46H
MALONE NO. 2-154 50H
VADA-140 30H
BAINBRIDGE-130 50H S
MOULTRIE 40H
C. A. P.-140 21 S
DOTHAN 233
BASCOM-120 50H
COMDR. DECATUR-119 40 H S
THOMASVILLE-250 50H
MOODY-226 50 H
HOMERVILLE-185 40 H
MARIANNA
CRESTVIEW 350
BOWERS-120 26
BEMIS NO. 3-198 50
THOMASVILLE COM. 42 S
REYNOLDSVILLE-110 30H
FACEVILLE-285 30H
VALDOSTA-215 56H S
CHIPLEY-100 24 S
ELLIS-116 50H
LAKE JACKSON-250 30 S
ROCKY FORD NO. 1-220 50 H
LAKE PARK NO. 2-220 45
GA.
FLA.
MARIANNA-112 50H S
PANAMA CITY-5 19 S
QUincy-112 35 S
TALLAHASSEE 935
DALE MABRY-70 52H L S-281 (118.3 126.7B)
JASPER-143 36 L
LIVE OAK-105 26 S
LAKE BUTLER OLF-131 60 H
WITT
LAKE CITY 60H
TYNDALL-15 61H L S-272 (126.7B)
ALLIANCE NO. 1-215 56H
APALACHICOLA AAF-19 53 H
TYNDALL 203
CROSS CITY 269
JOHN M. ALISON 50H S
STENGEL-70 38 S
CROSS CITY-121 50H L
MONTBROOK-70 70H
JACKSONVILLE 344
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
EXTREMELY HAZARDOUS
HAZARDS WITH CAUTION
SCALE OF MILES
0 5 10 20 30

SAVANNAH


KNOXVILLE 107
OWENS-192' 36H L S
TRENTON 21 S
LEXINGTON CO.—233 56H L -396
NORTH AUGUSTA-375' 23 S
DANIEL-420' 42H L S-278(126.18)
AIKEN-530' 51H
COLUMBIA 227 (116.1)
AIKEN-500' 19 S
NORTH-320' 50H
JENNINGS-190' 25 S
HAWTHORNE-195' 47 S
CARLISLE-140' 20 S
AUGUSTA 385 (116.1)
BUSH—140' 52H-201
BARNWELL-235' 50H
MANNING 32 S
WALTERBORO-93' 58 H
BIRDSVILLE-200' 22
ESTILL-135' 25
RIDGELAND-60' 22 S
SYLVANIA-175' 50H
STATESBORO-180' 54H
CHATHAM AAF-50' 70H L
W. SAVANNAH 22S
HUNTER-40' 50H L S-278 (118.7, 126.18)
CAMP STEWART AAF-46' 50H
HINESVILLE 24 S
HARRIS NECK-15' 54 H
DARIEN-30' 13 S
NAF. GLYNCO-25' 35H L S-317 (142.74)
NAF. GLYNCO (W) 520
BRUNSWICK 230 (116.1)
FOLKSTON-82' 20 L S
ST. MARYS 23S
ST. MARYS-24' 50H
NAS. ST SIMONS IS.-19' 41H L S-281 (142.74)
S CAR 3 DA
JACKSONVILLE 134
SHAW AAF-236' 45H L S-272(126.18)
CONGAREE-237' 45H
SUMTER-169 30
DONALD-280' 18 S
MANNING-125' 20 S
ELLOREE-247' 40L
CHARLESTON 329 (116.1)
CHARLOTTE 110
LANE-72' 34 L
LANE 359 (116.1)
On request
CHARLESTON 17H
CHARLESTON-45' 70H L S-278(118.3,126.18)
BEAUFORT-38' 60 H
TRULUCK-12' 29 S
CLARK-6' 21 S
JOHN'S ISLAND-16' 50 H
CAROLINA SKYWAYS-10' 26 S
SAVANNAH-WILMINGTON IS.-10' 28S
SAVANNAH 263 (116.1)
MCAS. PARRIS IS.-11' 60H
N. CAR., S. CAR. (EAST OF 79°31', SOUTH OF 34°)
OCEAN DRIVE-33' 60H
MYRTLE BEACH AAF-24' 50H L S-272 (126.18)
S. CAR. 3 DA
MYRTLE BEACH AAF 379
GEORGETOWN-12' 29 S
GEORGETOWN CO.-37' 50 H
RED 16
RED 15
RED 10
BLUE 28
AMBER 7
AMBER 6
ATLANTA JACKSONVILLE
ATLANTA 126
TALLAHASSEE 130
TO ATLANTA
TO MACON
TO JACKSONVILLE
S CAR GA
N. CAR. S. CAR.
FLORENCE
SUMMERVILLE
RICHMOND HILL
MOTTRIDGE
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
R: EXTREMELY HAZARDOUS
O: USABLE WITH CAUTION
NOTE: HEAVY LINES ON SIDES OF RANGE LEGS IDENTIFY "R" QUADRANTS.
SCALE OF MILES
10 0 10 20 30

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
AUGUSTA (Daniel)	385 (VD)(116.1)	SBRAZ-VDT,46°,2.1	(4), 116.1
BUSH FIELD (Augusta)	201	CA	(4) (8-sunset)
BRUNSWICK	230 (BS)(116.1)	MHVT	(4), 116.1
GLYNCO (Navy)	520 (NEA)	MRLWZ	
Glynco NAF-LTA	317 (142.74)	CN,239°, 0.3	3105,4495; 142.74 (8-17)
HUNTER FIELD (Savannah)	278 (126.18) (118.7)	AC	(4). 131.9,126.18, 118.7
RICHMOND HILL FM	(- - -)	FM, 231°, 8	Savannah
ST. MARYS FM	(-)	FM, 12°, 23	Jacksonville, Fla.
ST. SIMONS ISLAND NAS	281 (142.74) (140.58)	CN	(3);142.74,140.58 (630-24)
→ SAVANNAH (Hunter)	263 (SH)(116.1)	SBMRLZ-VDT,51°,2.2	(3); 116.1
→ DANIEL(AUGUSTA)	278(126.18)	C	(4):116.1.126.18.140.1(8-24)
SOUTH CAROLINA			
→ CHARLESTON	329 (CS)(116.1)	SBRAZ-VDT	(3), 116.1
→ Charleston Airport	278 (126.18) (118.3)	AC/ILS):110°,1.9	(4). 131.9,126.18,118.3
COLUMBIA (Owens Field)	227 (CI)(116.1)	SBRAZ-VDT,330°,1.8	(4), 116.1
LANE (Intermediate)	359 (LX)(116.1)	MHVT	(4), 116.1
MYRTLE BEACH (Army)	379 (DMB)	BMRAZ	
Myrtle Beach AAF	272 (126.18)	CA, 69°, 4.4	(3), 126.18
SHAW FIELD (Sumter)	272 (126.18)	CA	(3), 126.18 (7-24)
SUMMERVILLE FM	(- - - -)	FM, 296°, 10.7	Charleston
LEXINGTON CO.ARPT(Columbia)	396	C	(4)(8-22)

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
				IM-	MM-	OM-
→ Charleston, S.C.	110.3	335	150° Mag.		MMK-	OMK-

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Location Marker at Range Station. (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

GEORGIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Birdsville (Millen)	9.4 WNW;riv S	200	22	
Bush (Augusta)	7.5 SSE;RR W	140	52h R1	
(A) Camp Stewart (Hinesville) (A)	3 NE;hwy SW	46	50h	INACTIVE
(A) Chatham AAF (Savannah) (A)	7.5 NW;RR E	52	70h L5	INACTIVE
→ DANIEL (Augusta)	2.5 W;RR S	420	42h R2 L5 S4	80, 91 oct. No sto. Use rnwys only
Darien	0.8 SE;riv S	30	13 S1	Ltd 80 oct. Trees W.
★ Folkston Int,37,MM-AG	0.7 WNW;hwy E	82	20 L3 S1	80 oct. on req.
(N) Glynco NAF (LTA)(N)	6.4 N;hwy SE	25	35h R2 L5 S4	91, 100 oct.
Harris Neck	7 E of So.Newport	15	54h	
Hinesville	3 S; hwy W	55	24 S4	73 oct. No sto. Rdo repairs.
HUNTER (Savannah)	3.5 SW;RR yd NW	42	50h R2 L5 S6	80, 91 oct.
St. Marys	1.7 NNW;hwy S	24	50h	
(N) St. SIMONS ISLAND NAS (N)	6 E Brunswick	19	41h R2 L5 S4	91, 100 oct. No sto. Trees NE,W
Savannah-Wilmington (Savannah)	8 ESE; hwy N	10	28 S6	73 oct. Trees NE,SW.
Statesboro	3.8 NE;hwy W	180	54h	
Sylvania	7.5 SSE;hwy E	175	50h	
West Savannah(Savannah)	3 W; RR W,N	42	22 S6	80 oct. Pole line NW.

GEORGIA

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
SOUTH CAROLINA				
Aiken (old)	2 E; RR NNE	500	19 S4	80 oct. Trees SSW.
Aiken (new)	6 NNE; RR SW	530	51h	
Barnwell	1 WNW;hwy E	235	50h	
(P) Beaufort	4 NW	38	60h	
Carlisle (Bamberg)	4 ESE;riv NE	140	20 S4	80 oct. No sto.
Carolina Skyways (Charleston)	6 SSW;riv W	10	26 S4	80 oct.
→ (A) CHARLESTON (mun.)	9.8 NW;RR NE	45	70h R3 L6 S4	100 oct.
(N) Charleston (N)	4 N; riv E	13	17h	INACTIVE.
Clark (Charleston)	4 S;riv SW	6	21 S1	80 oct. Trees surround fld.
Congaree (Columbia)	15.5 ESE;RR S	237	45h	
Donald (St.Matthews)	2.5 NNE; RR S	280	18 S1	Ltd 80 oct. Trees SE.
★ Elloree Int,25,AG-CS	5.5 SE;RR N	247	40 L3	Steel mast NE.
Estill	2.5 SSW;RR E	135	25	
Georgetown	1 NW;riv E	12	29 S6	80,91 oct.
(P) Georgetown County	4 S;bay E	37	50h	
Hawthorne(Orangeburg)	5 S; RR E	195	47 S6	80, 91 oct. Tank N.
Jennings (Orangeburg)	2.3 S; RR E	190	25 S2	80, 91 oct. Pole line ENE.
John's Island (Charleston)	7 SSW; rd W	16	50h	
★ Lane Int,24,JX-RW	3 S;RR W	72	34 R1 L3	
Manning (Allendale)	1.5 ENE;hwy N	180	32 S1	80 oct.
Manning	1.5 SE;RR NNE	125	20 S1	Ltd 80 oct.
(A) Myrtle Beach AAF(A)	3 WSW;hwy SE	24	50h R2 L5 S6	73,91,100 oct. No sto.
(A) North (A)	1.5 SE; hwy N	320	50h	INACTIVE
North Augusta.	2 E;hwy S	375	23 S4	80 oct.
Ocean Drive (Wampee)	3.5 SE;hwy SE	33	60h	
OWENS (Columbia)	2.5 SE;RR SW	192	36h R1 L4 S6	80 oct. Tank WSW, twr SSE.
(N) Parris Island MCAS	1.5 S	11	60h	INACTIVE (N)
Ridgeland	1.3 WNW;hwy E	60	22 S1	73, 80 oct.
(A) Shaw (Sumter)(A)	7 WNW;RR W	236	45h R1 L5 S6	73, 91, 100 oct. JP-1
Sumter	1.5 NW; RR S	169	30	
Trenton	1.2 E;RR ESE	480	21 S1	80 oct.
Truluck (Charleston)	5.5 W;RRs N	12	29 S6	80 oct. Poles surround fld.
(P) WalterBoro	1.3 NE;hwy SE	93	58h	
(A)Lexington Co.(Columbia)	7 SW; RR SE	233	56h R1 L5	

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing (See page XIII) (NC)-Not charted. → NEW OR REVISED DATA

RADIO — FLORIDA

LOCATION	FREQ. IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARD HRS. OF OPER., REMARKS
BANANA RIVER (Navy)	524 (NPE)	MRLZ	(3)
Banana River NAS	224 (142.74)	CN,106°,4.8	(3), 142.74
BAYARD FM	(- - -)	FM, 158°, 19	Jacksonville
BRYCEVILLE FM	(- - - -)	FM, 289°,20.2	Jacksonville
CECIL NAAS (Jacksonville)	201 (142.74)	CN	3105;142.74 (flying hrs)
DAYTONA BEACH	236(DB)(116.1)	BMLZ-VDT,101°, 2.1	(4), 116.1
DREW FIELD (Tampa)	317 (126.18) (118.5)	AC	(4),126.18,118.5,131.9
FORT GEORGE ISLAND FM	(- -)	FM,89°,10.25	Jacksonville
→JACKSONVILLE	344(JX)(116.1)	SBRAZ-VDT	(3); 116.1
Jacksonville Arpt No. 1	278 (126.18) (118.5)	AC, 269°, 1.7	(4); 131.9,126.18,118.5
Jacksonville N.S	323 (126.18) (142.74)	CN	(3), 126.18, 142.74
Jacksonville NAS (Seaplane)	3265	CN	3105
MacDILL (Tampa) (Army)	1742 (TM)	H	
MacDill Field	227 (126.18)	CA	(3), 126.18
→MAYPORT CGAS	142.74	CN	3105;140.58,142.74
MELBOURNE (NC)	257(OU)(116.1)	SBRAZ-VDT,158°, 2.2	(4); 116.1 (On req only)
NORTH TAMPA FM	(- - - -)	FM, 355°, 10.1	Tampa
→ORLANDO	206(OR)(116.1)	BMRLZ-VDT	(3), 116.1
→Orlando Arpt.	278 (126.18) (118.7)	C, 220°, 3.4	(4),118.7,131.9,126.18
→PINECASTLE(AAF)	DECOMMISSIONED		
PINELLAS (St. Petersburg)	272	CI	(4) (8-24)
RUSSELL (Navy) (Fleming OLF)	385 (RUS)	BML, 30°, 3	(3), 128.7
→ TAMPA (Peter O. Knight Arpt.)	388 (TM)(116.1)	SBRAZ-VDT,55°, 2.6	( ), 116.1
VERO BEACH NAS	242 (VB)(116.1)	MHVT	(4), 116.1

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs. Compass Locators in kcs)

LOCATION	LOCALIZER	G.P.	APPR. ROAD	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)
→ PINECASTLE AAF, FLA.	DECOMMISSIONED.			

S-Simultaneous Range and Voice. W-Without Voice. Z-VHF Station Location Marker at Range Station.
(3)-3105,4495,6210 kcs.. (4)-3105,4495,6210,3117 5kcs Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available

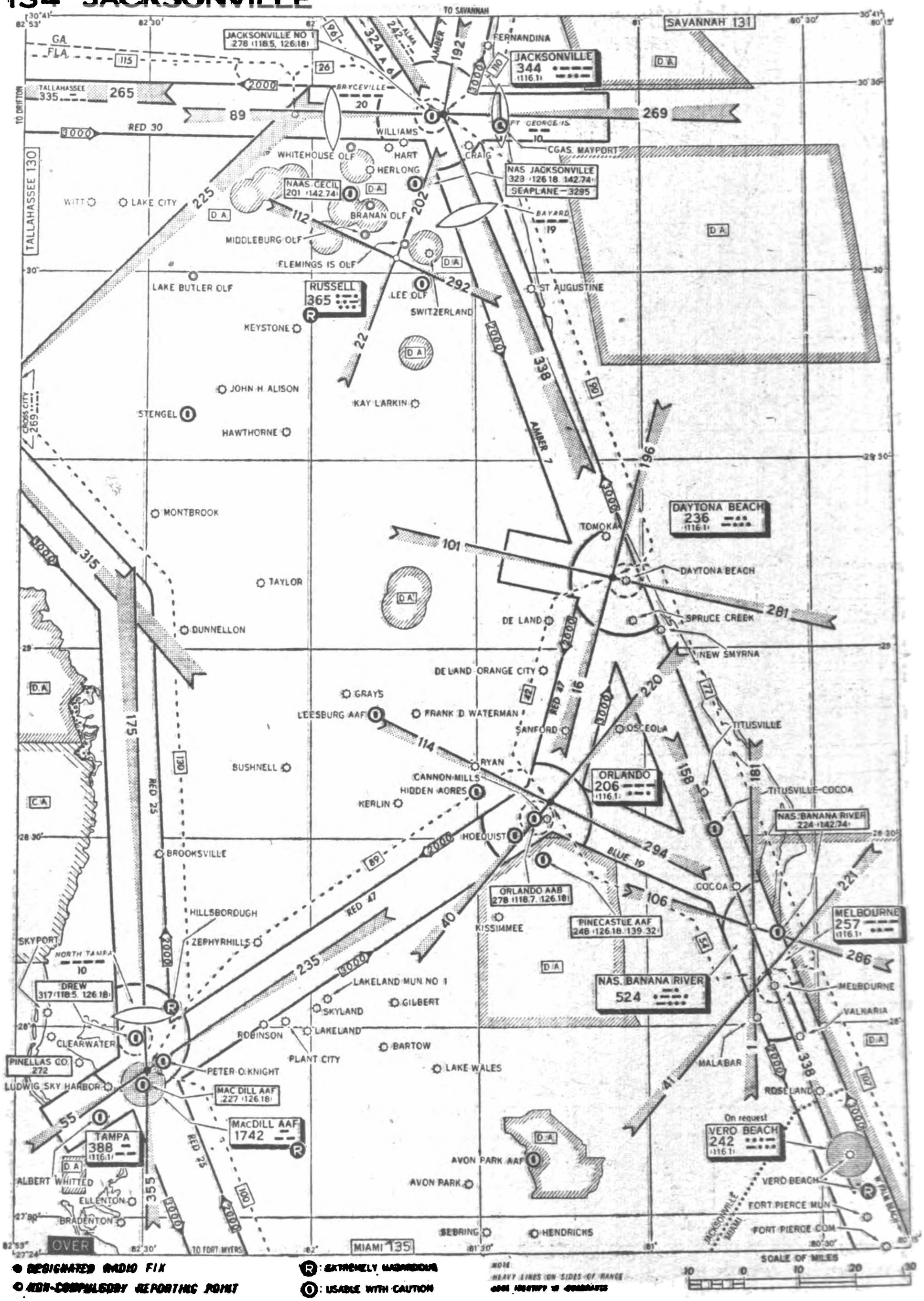
AIRPORTS — FLORIDA

ARPT.-CITY NAME	LOCATION	ELEV	CLASS	REMARKS
(P)Albert Whitted (St. Petersburg)	2.5 E,bay E	6	33h L3 S6	80,91,100 oct.Coast Gd. Sta.adj. Poles,stack NW,SW.
Petersburg) (NC)				
Altoona (NC)	0.6 NW,RR E	155	25	Trees ends strips.
Avon Park	1.5 W,RR E	127	40h S1	80 oct.Trees SE.
(A)Avon Park AAF(A)	11 ENE,lake NW	65	54h	INACTIVE.
(N)Banana River NAS	11 SE Cocoa	9	40h R2 L5 S6	91 oct.No bcn. (N)
Barberville (NC)	1 SE,bet RR& rd	25	25	Pole line E.UNUSABLE.
Bartow	5.5 NE,RR NW	128	50h L5 S2	80,91 oct.
Bostwick (NC)	1 NW,RR E	53	34	
Bradenton	0.5 S,RR NE	20	24 S1	80 oct.Trees W.Poles SW
(N)Branan OLF(Jax)	14 5 SW	73	40h L	B-2 lgts.
Brooksville	7.5 SW,hwy E	70	70h	
Bushnell	2.8 NE,hwy S	82	60h	N-S rnwy unusable.
Cannon Mills (Orlando)	3.8 E,hwy N	105	41 S6	80 oct.No sto.Poles sur fld.
(N)Cecil NAAS (Jacksonville)(N)	16 WSW,hwy NW	80	50h R1	INACTIVE.Trees sur fld
Cedar Keys (NC)	1 W,bay S	6	24h	
Clearwater	2.5 NE,hwy S	73	30 S6	80 oct.No sto.Trees W.
Cocoa	1 N,RR E	20	26 L1	Pole line E,trees S,W.
Craig (Jacksonville)	9 E,riv N	41	40h L5 S6	80,91 oct. No sto.
Daytona Beach	2.8 SW,hwy S	34	41h R1 L5 S6	80, 91 oct.
Deland	2.5 NNE,hwy S	80	60h L5 S1	87,91 oct.
Deland-Orange City (Orange City)	1 SW,riv W	90	26 S1	80 oct. Pole line E.
→Drew (Tampa)	5 W,bay SW	26	70h R1 L5 S6	80, 91 oct.Rdo rec req.
Dunnellon	4.5 E,hwy S	63	50h	
Ellenton	1.5 NNW,RR N	18	15	Pole line NE,trees SW,
(P)Fernandina	4 S,ocean E	16	50h	
(N)Flemings Island OLF (Jacksonville) (N)	17.5 SSW	23	40h L	B-2 lgts.
Ft. Pierce, com.	3.3 SSE,RR E	13	26 L1 S6	80 oct.Pole line W.
(P)Ft. Pierce, mun.	3.5 NW,hwy E	24	50h	
Frank D. Waterman (Eustis)	0.9 SSW,lake NNW	81	23 S1	80 oct.Poles SW,N,W
Gilbert (Winter Haven)	3.5 NNW,lake W,E	135	40h S6	80, 91 oct.
Gray's (Leesburg)	5 N,RR,hwy W	130	27 S6	80 oct.Orange groves W.
Haines City (NC)	1 NW	175	20 L1	
Hart (Jacksonville)	6.5 W,RR N	20	40 S6	80,91 oct.Trees sur fld
Hawthorne	1.2 SSE,RR W	120	24 S1	Ltd 80 oct.Trees S,W,NE
Hendricks (Sebring)	6.5 ESE,RR N	62	50h	
Herlong (Jacksonville)	10.5 WSW	87	40h	
Hidden Acres (Clarcona)	1.5 WNW,lake W	93	25 S6	80 oct.Trees E.
Hillsborough (Tampa)	7 NNE	50	50h	
Hoequist(Orlando)	3.8 SW,bet lakes	90	20 S4	80 oct.No sto.Trees E.
(N)Jacksonville NAS(N)	7.2 S,riv E,N	20	60h R1 L5 S6	91, 100 oct. NATS.
(A)Jacksonville No. 1	6.3 N,RR W	52	70h R2 L5 S4	80, 91, 100 oct. JP-1, for Army.
John H. Alison (Gainesville)	4.5 NE,RR W	155	50h L5 S2	80 oct.Lgts prior req.
(P)Kay Larkin(Palatka)	3 WNW,RR N	56	50h L5 S1	91 oct.
Kerlin (Minneola)	0.5 NE	100	18 S2	80 oct.
Keystone (Keystone Heights)	4.5 NNW,RR W	192	50h	
Kissimmee	2 W,RR N	65	50h	
(N)Lake Butler OLF(N)	2 SSW,RR NW	131	60h L	
Lake City	3.7 ESE,RR S	200	60h	
Lakeland	4.5 SW,RR NE	135	50h	
LAKELAND MUN. NO. 1	2.1 N,lake E	159	35h L5 S6	80, 91 oct.Ctc lgts on req till 2400
→Lake Wales	2.3 WSW,RR N	225	40h L3 S6	80, 91 oct.
(N)Lee OLF (Green Cove Springs)(N)	2.2 SE,riv N	22	51h	INACTIVE.
(A)Leesburg AAF (A)	4 ENE,RR SE	67	50h L3	CLOSED.
Ludwig Sky Harbor (St.Petersburg)	8 NE,bay E	14	33 L1 S6	80 oct.
(A)MacDill (Tampa)(A)	8 SSW,bay NE	9	100h R2 L5 S6	73-100 oct. JP-1.No sto.
Malabar	7 WNW	27	40h	
(C)Mayport CGAS(CG)	0.6 NNE,riv N	19	43h R1	INACTIVE.
Melbourne	2.2 NW,RR E	26	43h R1	
(N)Middleburg OLF (N)	3 NNE,rds E, SE	34	32	
Montbrook(Williston)	3.2 SSW,hwy E	70	70h	
New Smyrna	3 NNW,RR W	12	50h	
(A)Orlando AAB(Arpt)	2.5 E,lake SE	106	55h R2 L5 S6	91; 100 oct.for military. No sto.
Osceola(Sanford)	10 SSE,lake SE	25	40h	
PETER O.KNIGHT (Tampa)	3.7 S,bay S,E W	8	40h R1 L5 S6	91,80 oct Shipyard NE
(A)Pinecastle AAF(A)	3 ESE,lake NW	92	100h	INACTIVE.
PINELLASCO MASTER	9.5 N,bay N	12	50h R1 L5 S6	80,91 oct.No sto. OF (St.Petersburg) ENTRY.
Piper-Fuller (St. Petersburg)(NC)	4.8 WNW,RR E	21	32	
Plant City	3 E,hwy N	172	53	
Robinson(Plant City)	1.5 WSW,RR E	110	18 S1	80,91 oct.Pole line ESE
Roseland(Sebastian)	1.7 W,riv N,E	23	40h	
Ryan (Apopka)	1 N,lake NW	104	28 S6	80 oct.
St.Augustine	4 NNW,hwy W	10	42h S1	80, 91 oct.
Sanford	2.5 SE,lake N,S	57	60h	
Sawyer (Palatka)	2.6 S,RR SE	60	25	Trees N,E,S. (NC)
Sebring	4 SW,lake NE	200	20 S1	80 oct.Pwr line SW.
Skyland(Lakeland)	1.9 WNW,RR S	170	23 S6	80 oct.No sto.Trees S.
Skyport (Dunedin)	1.5 N.RR E	4	26 S6	80 oct.No sto.Pole line NE
Spruce Creek(Deland)	16 ENE	25	40h	3.5 mi N Sansula.
Stengel(Gainesv'l)	4 WSW,RR SE	70	38 S6	80 oct.Trees sur fld.
Switzerland	1.5 SE	31	40h	
(P)Taylor (Ocala)	1 SW,RR NE	72	40h L3 S6	80,91 oct.Lgts and rgt repairs prior req.
(P)Titusville-Cocoa (Titusville)	6 S,riv E	35	50h S6	80 oct. No sto.
* Titusville Int,20, MM-AG	1.3 NW,RR E	28	28 L3	
Tomoka (Daytona Beach)	7.8 NW	29	40h	
Valkaria (Melbourne)	8 SSE,RR E	26	40h	
VERO BEACH	1 NW,RR E	24	65h R1	
Wauchula (NC)	2.1 E,riv W	120	21	Trees N, E, NE.
(N)Whitehouse OLF (Jacksonville)(N)	13 W,RR S	102	40h L	B-2 lgts.
Wimauma (NC)	0.8 ESE,RR W	35	36	Cattle on fld.Bldg W.
Zephyrhills	1.5 ESE,RR W	92	50h	
Williams (Jacksonville)	3.3 WNW,RR E	25	31 S6	80 oct.No sto.Pole line E Info unver.
Witt (Lake City)	2 WSW,hwy S	200	36 S4	80 oct. No sto.

h-hard surfaced runways. R-radio facilities L-lighting facilities S-servicing (See page XIII)(NC)-Not charted.

→ NEW OR REVISED DATA

134 JACKSONVILLE



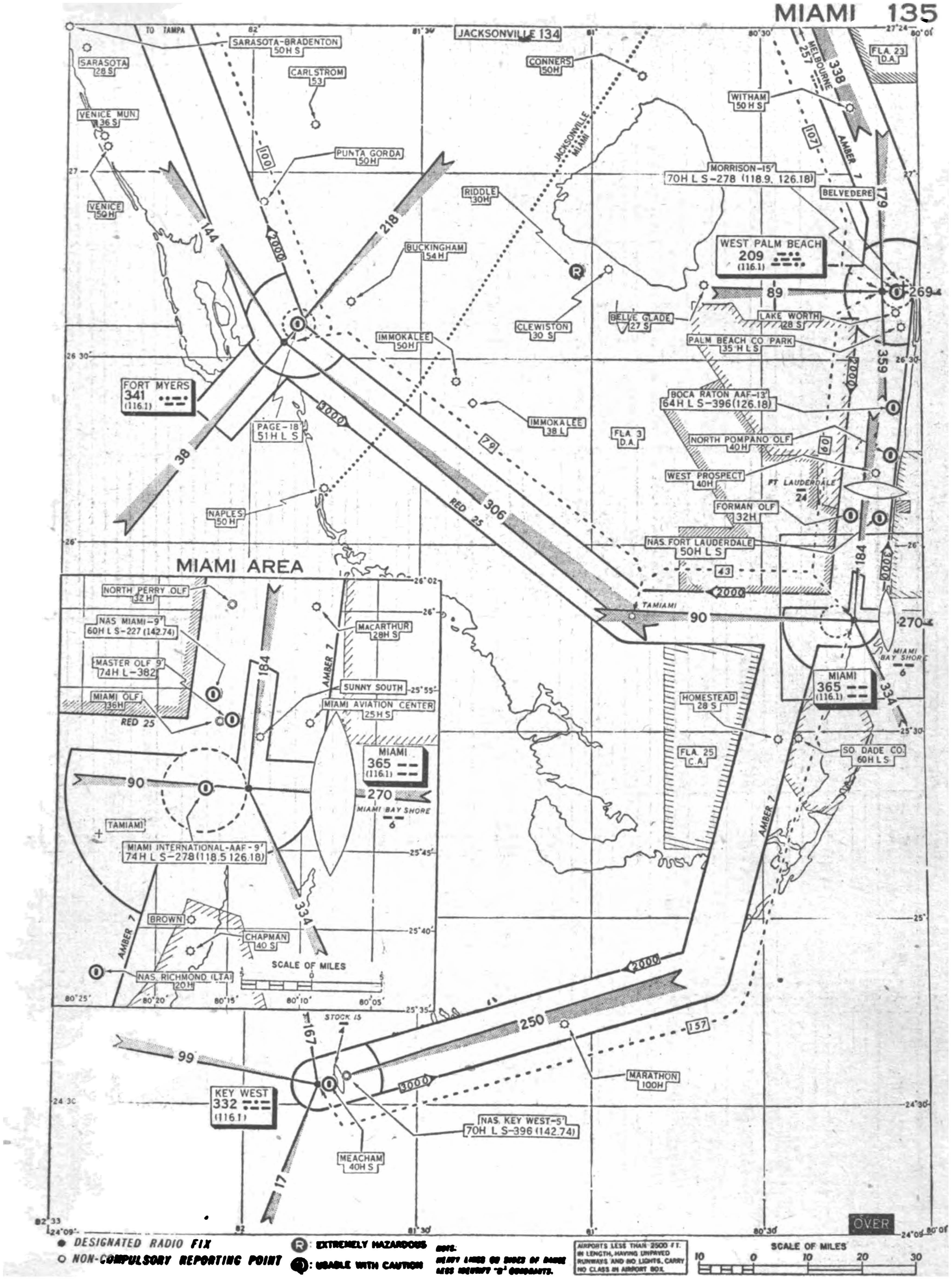
● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

(R): EXTREMELY HAZARDOUS

(O): USABLE WITH CAUTION

NOTE
HEAVY LINES ON SIDES OF RANGE
ARE RESTRICTED OR DANGEROUS


TO TAMPA
JACKSONVILLE 134
SARASOTA-BRADENTON 50H S
SARASOTA 28 S
CARLSTROM 53
VENICE MUN 36 S
PUNTA GORDA 50H
VENICE 50H
CONNERS 50H
WITHAM 50H S
MELBOURNE 257
338
FLA. 23 D.A.
JACKSONVILLE MIAMI
107
AMBER 7
MORRISON-15' 70H L S-278 (118.9, 126.18)
BELVEDERE
179
RIDDLE 30H
144
218
100
2000
BUCKINGHAM 54H
WEST PALM BEACH 209 (116.1)
89
269
CLEWISTON 30 S
BELLE GLADE 27 S
LAKE WORTH 28 S
IMMOKALEE 50H
PALM BEACH CO PARK 35 H L S
359
FORT MYERS 341 (116.1)
PAGE-18 51H L S
IMMOKALEE 38 L
BOCA RATON AAF-13' 64H L S-396(126.18)
FLA. 3 D.A.
NORTH POMPANO OLF 40H
WEST PROSPECT 40H
FT LAUDERDALE 24
FORMAN OLF 32H
NAPLES 50H
NAS. FORT LAUDERDALE 50H L S
38
79
306
RED 25
43
184
3000
TAMIAMI
90
270
MIAMI BAY SHORE 6
MIAMI 365 (116.1)
334
HOMESTEAD 28 S
FLA. 25 C.A.
SO. DADE CO. 60H L S
MIAMI AREA
NORTH PERRY OLF 32 H
NAS MIAMI-9' 60H L S-227 (142.74)
MACARTHUR 28H S
MASTER OLF 9' 74H L-382
SUNNY SOUTH
MIAMI AVIATION CENTER 25H S
MIAMI OLF 36H
RED 25
MIAMI 365 (116.1)
270
MIAMI BAY SHORE 6
TAMIAMI
MIAMI INTERNATIONAL-AAF-9' 74H L S-278(118.5 126.18)
BROWN
CHAPMAN 40 S
NAS. RICHMOND (LTA) 20H
SCALE OF MILES
STOCK IS
167
99
250
157
MARATHON 100H
KEY WEST 332 (116.1)
NAS. KEY WEST-5' 70H L S-396 (142.74)
MEACHAM 40H S
17
OVER
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
EXTREMELY HAZARDOUS
USABLE WITH CAUTION
NOTE:
HEAVY LINES ON EDGES OF RADIO LEGS INDICATE "R" SEGMENTS.
AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS OR AIRPORT BOX.
SCALE OF MILES

LOCATION	FREQ., IDENT.	STA. CLASS; BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BOCA RATON AAF	396 (126.18)	CA	(3), 126.18 (6-24)
FORT LAUDERDALE FM	(-)	FM, 4°, 24.4	Miami
→ FORT LAUDERDALE NAS	317 (142.74)	CN	3105,4495;142.74 Req only)
FORT MYERS (Page)	341 (FM)(116.1)	SBRAZ-VDT,38°,3.6	(4), 116.1
KEY WEST	332 (KW)(116.1)	SBRAZ-VDT	(4), 116.1
Key West NAS	396 (142.74)	CN, 70°, 5.8	(3);142.74 (sunrise to sunset)
Key West NAS (Seaplane) (NC)	272 (142.74)	CN	3105,142.74 (prior req.)
MASTER OLF (Miami)	382	CN	(3); 142.74 (7-sunset)
MIAMI BAY SHORE FM	(- -)	FM, 90°, 6	Miami
→ MIAMI	365(MM)(116.1)	SBRAZ-VDT	(3),116.1
Miami International Arpt.	278 (126.18) (118.6)	AC, 270°, 2.3	(4); 131.9, 126.18, 118.5
Miami NAS	227 (142.74)	CN	3105,4495; 142.74
MORRISON FIELD (West Palm Beach)	278 (126.18) (118.9)	C	(4); 118.9, 131.9 only
STOCK ISLAND LFM	(-)	LFM, 70°, 4	Key West
→ WEST PALM BEACH (Morrison Field)	209 (DWZ) (116.1)	BMRAZ-VDT,89°,2.4	(3), 116.1

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs., (4)-3105,4495,6210,3117.5. kcs.; Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — FLORIDA

AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Arcadia	2 SE,hwy W	60	30	Trees around fld.
Belle Glade	1 NNE,lake W	17	27 S6	73 oct. No sto. Light acft.
(A) Boca Raton AAF (A)	2 NNW,canal E	13	64h R1 L5 S6	73, 91, 100 oct. Twr SE.
Brown (Miami)	10 SSW,RR NW	10	20 S6	80, 91 oct. No sto. Trees E.
Buckingham (Ft.Myers)	10 E,riv SW	23	54h	
Carlstrom (Arcadia)	7 SSE,hwy N	56	53	
Chapman (Miami)	10 SW,RR W	3	40 S6	80,91 oct. No sto. Pwr line W.
Clewiston	1.6 SW,RR N	19	30 S6	80 oct. Pole line N, E, S, W.
Connors (Okeechobee)	2.5 NW, RR S	34	50h	
Dorr (Arcadia)	11.5 E.hwy N	74	53	
(N) Forman OLF (Ft. Lauderdale) (N)	6.5 WSW	7	32h	INACTIVE.
→ (N) Fort Lauderdale NAS (N)	3.5 SSW,RRW	10	50h R1 L5 S1	100 oct.
		8		
Homestead, mun.	2 NE, rd N	8	28 S6	80 oct.
Immokalee Airfield	1.3 ENE,RR W	20	50h	
* Immokalee Int, 13, TM-MM	5.25 SE,RR SW	23	38 L2	
(N) Key West NAS (N)	7 ENE	5	70h R2 L5 S4	91, 100 oct. No sto.
Lake Worth	2 W,hwy N	12	28 S1	80 oct.
MacArthur (Hollywood)	1 SW,RR E	12	28h S4	80, 91 oct. No sto. Trees SE.
Marathon	1.8 ENE,hwy S	6	100h	
(N) Master OLF (Miami)(N)	8 NNW,RR W	9	74h R1 L5	Pwr line SE.
MEACHAM (Key West)	2.3 E,ocean S	4	40h S1	80,91 oct. ARPT OF ENTRY.
Miami Aviation Center (Miami)	7.5 NNE,bay E	8	25h S6	80, 91 oct. No sto.
(A) MIAMI INTERNATIONAL - AAF	5.5 NW,RR S	9	74h R2 L5 S6	91, 100 oct. JP-1. FEE. 2-way radio on req. AIRPORT OF ENTRY.
(N) Miami NAS (N)	10.7 NW,canal N	9	60h R1 L5 S6	91, 100 oct. No sto.
(N) Miami OLF (N)	7.9 NNW,RR E	91	36h	
(A) MORRISON (West Palm Beach) (A)	2 W,canal S	15	70h R2 L5 S5	73-100 oct. CLOSED. FOREIGN CLEARING STATION
Naples	2 NE,RRs E,W	8	50h	
(N) North Perry OLF (Hollywood)	6.3 W	9	32h	
(N) North Pompano OLF	1.5 NE,RR W	21	40h	(Pompano)
PAGE (Ft. Myers)	4 S,RR SE	18	51h R1 L5 S6	80, 91 oct. Ground traffic
Palm Beach County Park (Lantana)	2 WNW,lake N	16	35h L5 S6	80, 91 oct. Fld lgts prior req. Lake E
(P) Punta Gorda	5 ESE,hwy SW	22	50h	
Punta Gorda, mun.(NC)	3 SSE,hwy E	4	24	
(N) Richmond NAS (LTA)	15 SW Miami	13	20h	INACTIVE. (N)
Riddle (Clewiston)	7.6 W,hwy N	19	30h	Use rnwys only.
SARASOTA-BRADENTON (Sarasota)	3.5 NNW,hwy W	24	50h L5 S6	80, 91 oct.
Sarasota, com.	2.5 E,RR S	25	28 S1	80 oct.
Sunny South (Miami)	6 N,hwy N	12	27	
Tamiami.(Miami)	12 W		35h S4	80, 91 oct. No sto. Data not verified.
Venice	2 S,RR E	15	50h	Pole lines N, E.
Venice, mun.	0.5 SE,RR E	20	36 S2	80 oct.
West Prospect (Oakland Park)	2.5 WNW	14	40h	Trees our field.
(P) Witham (Stuart)	1.5 SE,RR SW	17	50h S1	
So.Dade Co.(Homestead)	5 E	8	60h L5 S6	87 91 oct. No sto.
Belvedere (West Palm Beach)	2 SW	17	25 S5	

RADIO — CALIFORNIA

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
BURBANK (Lockheed Air Terminal)	248(BU)(116.1)	SML-VDT;93°.3	(3);116.1
BURBANK LFM	(- -)	LFM 97°, 1.5	Burbank
CHATSWORTH	341 (L)	FMK;277°, 10.6	Burbank
CHATSWORTH LFM	(. . - - - -)	LFM, 276°, 10.5	Burbank
DOWNEY FM	(-)	FM, 77°, 11	Los Angeles
DOWNEY	379 (V)	FMK; 77°, 11	Los Angeles
EL TORO MCAS	3295(142.74)	CN	3105,4495;126.18,142.74
GLENDALE	371 (S)	K; 97°, 7.3	Burbank
GRAND CENTRAL ARPT (Glendale)	201	CI	(4);131.9, (S-sunset)
HAWTHORNE NORTHROP	396 (126.18)	CA	(3);126.18 (730-2230)
HUNTINGTON BEACH FM	(- -)	FM, 118°, 11	Long Beach
LA HABRA FM	(. . -)	FM, 77°, 21	Los Angeles
LOCKHEED AIR TERMINAL (Burbank)	278 (126.18) (118.3)	AC	(4);131.9,126.18,118.3
LONG BEACH	233(HB)(116.1	SBMRLZ-VDT	(3);116.1
Long Beach Airport	347 (126.18) (118.5)	AC; 299° 3.9	(4);131.9,118.5,126.18
LOS ALAMITOS NAAS	317 (142.74)	CN	3105;142.74 (S-1730)
LOS ANGELES	260 (LA)	SBRAZ-DTX	(3)
Los Angeles Airport	272 (126.18)	C (ILS);244°,3.8	(4);116.1,126.19
NEWHALL (Int)	209(NH)(116.1)	BMRL-VDT;317°,0.1	(4);116.1
ONTARIO ARPT	219(126.18)	CI	(4); 126.18, 116.1
SANTA ANA (Navy)	472(NTK)(116.1	BMRLZ	3105;142.74 (13-5)
Santa Ana NAS	6970(142.74)	CN;2500,0.6	3105,3195;142.74 (flying hrs & req)
SANTA MONICA AIRPORT	272 (126.18)	CI	(3);126.18 (8-18)
TERMINAL ISLAND NAS (San Pedro)	338 (142.74)	CN	(3);142.74 (flying hrs)
CASTAIC FM	(- - - -)	FM, 322°, 41	Los Angeles

COLORADO

AURORA LFM	(- - -)	LFM, 155°, 9.5	Denver
DENVER (Stapleton Airfield)	379 (DV) (111.1)	SBMRAZ-VDTX;159° 2.5	(3); 131.7
DENVER (9 mi ENE Stapleton)	109.1 (DV) 111.1	VAR-VDT	(3);131.7
HENDERSON FM	(-)	FM, 348°, 8.6	Denver
LOWRY FIELD (Denver)	396 (126.18)	CA	(3);126.18
SKY RANCH ARPT (Denver)	296	CI	(3) (sunrise to sunset)
STAPLETON AIRFLD(Denver)	278 (126.18), (118.7)	AC (ILS)	(4);131.9,126.18
WATKINS FM	(- -)	FM, 59°, 14.8	Denver

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. in mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR. BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
STAPLETON, COLORADO	110.3	335	206° Mag.	IM	MM ·····(.64)	OM — —(4.2)
					MK	OMK
LOS ANGELES, CALIFORNIA	109.9	333.8	247° Mag.	IM (.05)	MM	OM (2.45)
					MK	OMK

S-Simultaneous Range and Voice, W-Without Voice; Z-VHF Station Locatron Marker at Range Station. (3)-3105.4495.6210 kcs., (4)-3105,4495,6210,3117.5. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS — CALIFORNIA

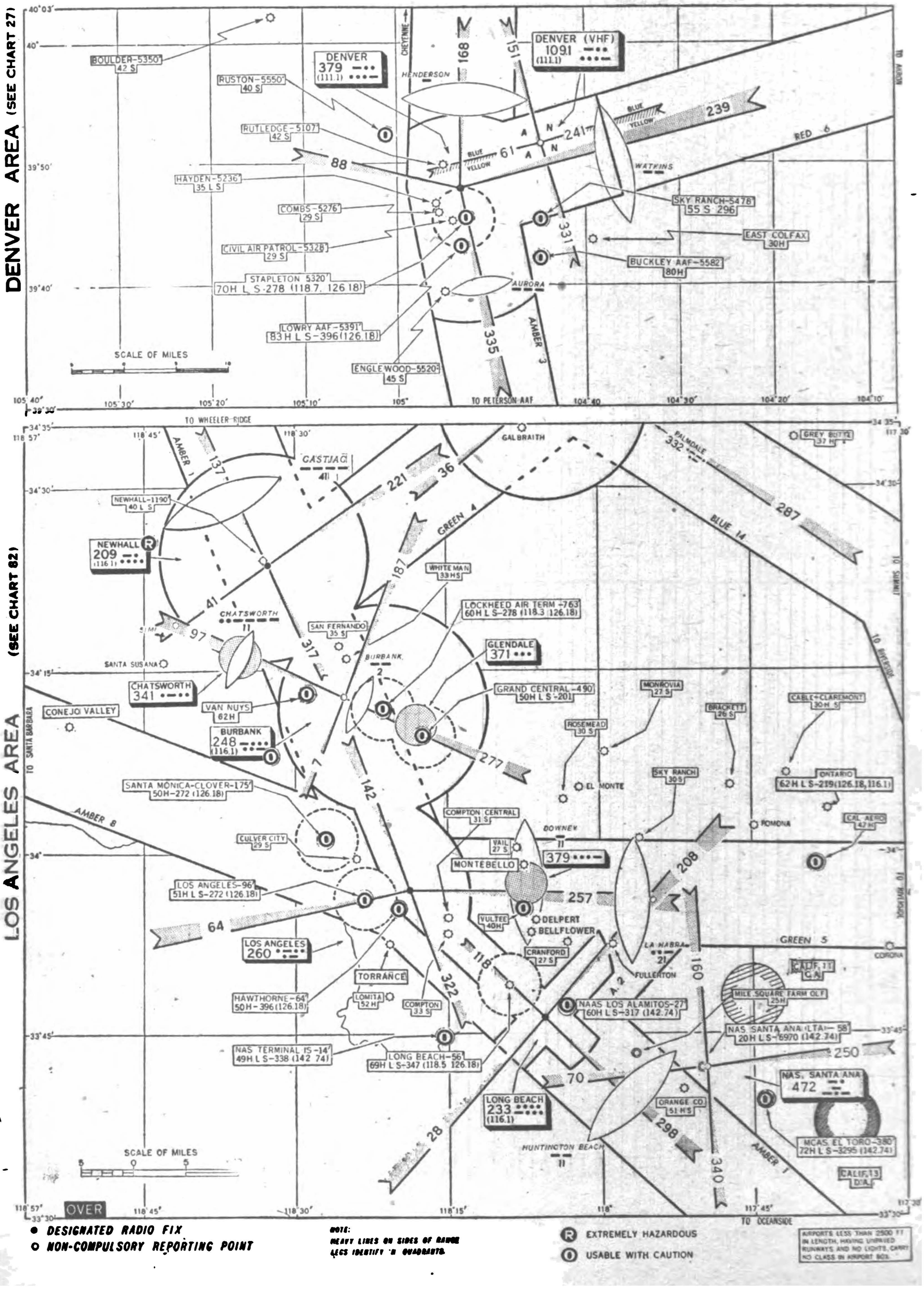
AIRPORT — CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Bellflower	1.2 NE;rlv E	80	24 S4	80 oct.No sto.
Brackett (Pomona)	3 NW;hwys S,E	1010	26 S6	80 oct. Fence W.
Cable-Claremont	1.8 ENE;RR E	1400	30h S4	80,91 oct.
Cal Aero (Ontario)	5 SSE;hwy W	625	47h	Rest'd to D.P.C.
Compton	1.5SW;hwyE,W,N	90	33 S6	80 oct. Poles E. N.
Compton Central(Compton)	2 NW;RR W	100	31 L S6	80,91 oct.No sto.Port rnwy lgts.
Corona	2.3 ESE; RR N	645	22 S4	80,91 oct. Pole line W.
Cranford (Artesia)	2.1 NE;RR W	55	27 S6	80 oct. Pole line S.
Culver City(Los Angeles)	9 WSW;RR S W	25	29 S6	80 oct. Poles NE.
El Monte	1 NNE;rd E	300	21 S6	80 oct. Trees SW. Bldgs NE
(N) EL Toro MCAS (N)	3.7 NW;RR SW	380	72h R1 L5 S4	73,87,91,100 oct.
Fullerton	3 W;RR N	95	18 L1 S6	80 oct. Port rnwy lgts.
Gelbraith (Palmdale)	0.3 W;RR E	2660	21 S1	73,80 oct.
Gardena Valley (Gardena)	2 NW; RR SE	50	23 S6	80 oct. Pole line E.
Grand Central (Glendale)	2.2 NW;bet RR and river	490	50h R1 L5 S6	73,83,91,100 oct.
Grey Butte (Victorville)	22 W	3050	37h	Mts. S.
Hawthorne	1.2 E;RR S	64	50h R1	Poles W. Closed to transients.
Hughes (Culver City)(NC)	3.6 SSW;RR N	15	91	Pole line NE. RESTRICTED.
LOCKHEED AIR TERMINAL (Burbank)	3.5 WNW;RR S	763	60h R2 L6 S6	73,80,91,100 oct. No sto. Two-way radio required.
Lomita Landing Strip	1 W;hwy S	95	52h	Mts. S.
(A) LONG BEACH	3 NE;RR W	56	69h R2 L6 S6	80,91,100 oct. JP-1. No sto.
(N) Los Alamitos NAAS (N)	1 SE;rlv W	27	60h R1 L5 S4	73,91,100 oct.
(A)(N) Los Angeles(Mines Fld)	9.5 SW;RR E	96	51h R3 L6 S6	91,100 oct.Rdo req.
(N) Mile Sq.Farm OLF (Westminster)(N)	3.5 SE;rlv E	44	25h L	Pwr lines S
Monrovia	0.5 SE;RR S	500	27 S6	80,91 oct.
★ Newhall Int 3A,LA-SF	2.2 NW;RR E	1190	40 R1 L3 S1	90 oct. for airlines.
Norco	2.5 N,RR S	590	14 S1	80 oct.
Ontario	1.5 E;bet RRs	934	62h R1 L5 S4	80,91,100 oct.
Orange Co. (Santa Ana)	5 S;at fork rds	45	51h S6	80-100 oct.
(N) Palisades OLF (N)(NC)	2 E Costa Mesa	107	25	Bay N.W.
Pomona	1.8 SSE;rlv S	775	20 S6	80 oct.
Rosemead (El Monte)	1 W;RR N	255	30 S6	80,91 oct. No sto.
San Fernando	1.2 E;hwy SW	1150	35 S6	80 oct. Poles SW.
(N) Santa Ana NAS (LTA)(N)	3.6 SE;RR NE	58	20h R2 L5 S4	91,100 oct. No sto.
(P) Santa Monica	2.6 ESE;rd E	175	50h R1 L5	No pcn.Lgts prior req.
Santa Susana	0.5 S,RR N	955	19 S6	73 oct.No sto. Pwr line W.
Sky Ranch (Puente)	1.3 E;RR S	402	30 S4	80 oct. No sto.
(N) Terminal Is NAS (San Pedro) (N)	2 ENE	14	49h R1 L6 S1	91,100 oct. NAFC.
Vail (Los Angeles)	6.5 E;RR SW	175	27 L S6	80,91 oct.Port rnwy lgts.Radio
Van Nuys Metropolitan	2.8 NW;RR N	800	62h	Closed,emerg use only. repairs.
Vultee (Downey)	1.5 SSE;hwy W	100	40h L1	60' trees WSW. RESTRICTED.
Whiteman (San Fernando)	2 SE;RR N	1000	33h S6	80 oct. Pole line NNW,NE,SW.
Conejo Valley(Camarillo)	9.5 ESE;RR W	750	25 S6	80,91 oct.No sto.Pole lines NE.
Delpert Apk(Norwalk)	1.5 W;hwy N	90	21 S6	80 oct.No sto.Pole
Montebello	2 SSW;RR S	180	34 S6	80,91 oct.
Torrance Community (Los Angeles)	11.5 SSW;hwy W	82	21h S6	80 oct.No sto.Poles W;pwr line E.

COLORADO

Boulder	3 ENE;RR NW,S	5350	42 S5	80,91 oct. Bldg N
(A) Buckley (Denver)(A)	12.5 ESE	5582	80i	INACTIVE.
Civil Air Patrol (Denver)	3.9 E	5328	29 L S6	80 oct. Flood lgts.
Combs (Denver)	3 NE;RR N	5276	29 S6	80,91 oct. Pole line N. S.
East Colfax (Watkins)	2.7 WSW;hwy N	5650	30 S4	73 oct. Poles N. NW.
Englewood	6.8 SSE;hwy S	5520	45 S6	80,91 oct. No sto.
(A) Lowry (Denver) (A)	5.3 ESE	5391	83h R1 L5 S6	91,100 oct. JP-1.
Ruston (Denver)	10 NNW;hwy W	5550	40 S1	80,91 oct. Pole line W,SW.
Rutledge (Dupont)	1 S;bet RR;hwy	5109	42 S6	80 oct. Pole lines sur fld.
Sky Ranch (Denver)	12.6 E;RR S	5478	65 R1 S6	73,80,91 oct.
STAPLETON (Denver)	5 ENE;RR N	5320	70h R3 L6 S6	80,91 oct.
Vest Acft. Co. (Denver)	3.8 NE;hwy W	5236	35 L2 S6	80,91 oct.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) (NC)-Not charted. → NEW OR REVISED DATA

DENVER AREA (SEE CHART 27)



● DESIGNATED RADIO FIX

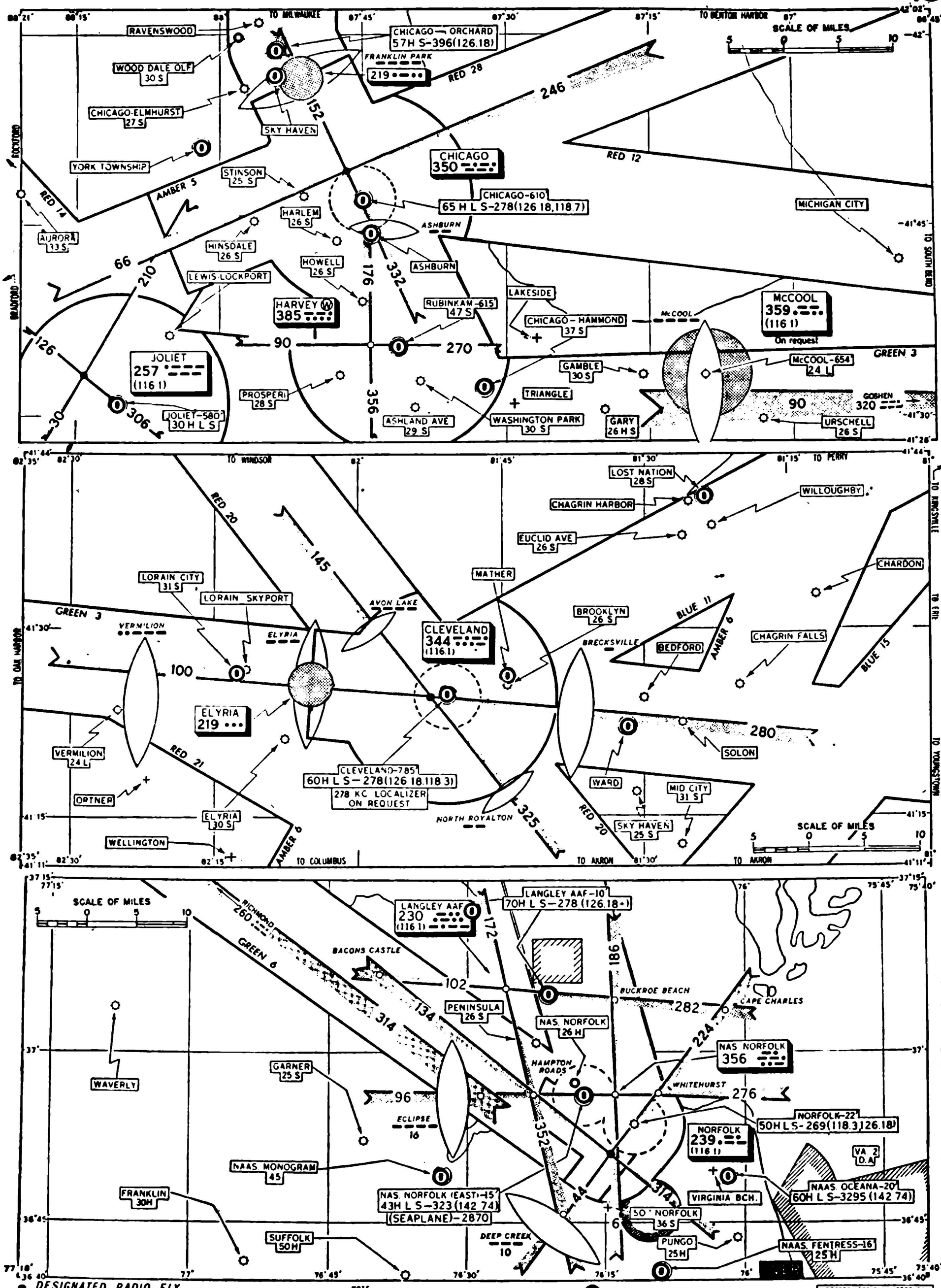
○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIAL LEGS IDENTIFY 'A' QUADRANTS.

Ⓡ EXTREMELY HAZARDOUS

Ⓤ USABLE WITH CAUTION

AIRPORTS LESS THAN 2500 FT IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS, CARRY NO CLASS IN AIRPORT BOX.


CHICAGO AREA (SEE CHART 341)
CLEVELAND AREA (SEE CHART 381)
NORFOLK AREA (SEE CHART 111)
SCALE OF MILES
RAVENSWOOD
WOOD DALE OLF 30 S
CHICAGO-ELMHURST 27 S
SKY HAVEN
YORK TOWNSHIP
STINSON 25 S
AURORA 33 S
HINSDALE 26 S
HARLEM 26 S
HOWELL 26 S
LEWIS-LOCKPORT
JOLIET 257 (116.1)
JOLIET-580 30 H L S
PROSPERI 28 S
ASHLAND AVE 29 S
HARVEY 385
RUBINKAM-615 47 S
CHICAGO ORCHARD 57 H S-396(126.18)
FRANKLIN PARK 219
CHICAGO 350
CHICAGO-610 65 H L S-278(126.18,118.7)
ASHBURN
LAKESIDE
CHICAGO-HAMMOND 37 S
McCOOL 359 (116.1) On request
McCOOL-654 24 L
GAMBLE 30 S
TRIANGLE
WASHINGTON PARK 30 S
GARY 26 H S
GOSHEN 320
URSCHELL 26 S
MICHIGAN CITY
TO MILWAUKEE
TO BENTON HARBOR
TO SOUTH BEND
TO WINDSOR
TO PERRY
TO KINGSVILLE
TO ERIE
TO YOUNGSTOWN
TO OAK HARBOR
TO COLUMBUS
TO AKRON
LOST NATION 28 S
CHAGRIN HARBOR
EUCLID AVE 26 S
WILLOUGHBY
CHARDON
CHAGRIN FALLS
BROOKLYN 26 S
BEDFORD
BRECKSVILLE
SOLON
WARD
MID CITY 31 S
SKY HAVEN 25 S
MATHER
LORAIN CITY 31 S
LORAIN SKYPORT
AVON LAKE
VERMILION
ELYRIA
CLEVELAND 344 (116.1)
ELYRIA 219
VERMILION 24 L
ORTNER
ELYRIA 30 S
WELLINGTON
CLEVELAND-785 60 H L S-278(126.18,118.3) 278 KC LOCALIZER ON REQUEST
NORTH ROYALTON
LANGLEY AAF 230 (116.1)
LANGLEY AAF-10 70 H L S-278 (126.18+)
BACONS CASTLE
PENINSULA 26 S
BUCKROE BEACH
CAPE CHARLES
NAS. NORFOLK 26 H
NAS NORFOLK 356
HAMPTON ROADS
WHITEHURST
NORFOLK 239 (116.1)
NORFOLK-22 50 H L S-269(118.3,126.18)
VA 2 D.A
NAAS. OCEANA-20 60 H L S-3295 (142.74)
VIRGINIA BCH.
SO. NORFOLK 36 S
PUNGO 25 H
NAAS. FENTRESS-16 25 H
WAVERLY
GARNER 25 S
ECLIPSE 16
NAAS. MONOGRAM 45
FRANKLIN 30 H
NAS. NORFOLK (EAST)-15 43 H L S-323 (142.74) (SEAPLANE)-2870
SUFFOLK 50 H
DEEP CREEK 10
RED 28
RED 12
RED 14
RED 20
RED 21
AMBER 5
AMBER 6
GREEN 3
GREEN 6
BLUE 11
BLUE 15
246
152
66
210
126
30
306
90
270
176
332
356
100
145
325
102
134
314
172
186
224
280
96
352
44
314
6
DESIGNATED RADIO FIX
NON-COMPULSORY REPORTING POINT
NOTE: HEAVY LINES ON SIDES OF BARGE LEGS IDENTIFY 4 QUADRANTS.
R: EXTREMELY HAZARDOUS
U: USABLE WITH CAUTION
AIRPORTS LESS THAN 2900 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CARRY NO CLASS IN AIRPORT BOX

CHICAGO–CLEVELAND–NORFOLK

RADIO

ILLINOIS

LOCATION	FREQ., IDENT..	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
ASHBURN LFM	(- -)	LFM,152°, 6.25	Chicago
→ CHICAGO	350(CG)(116.1)	SBRAZ-VDTX	(3);116.1
Chicago Airport	278(126.18) (118.7)	AC (ILS);152°,2.2	(4);131.9,126.18,118.7
FRANKLIN PARK FM	(- - - -)	FM, 332°, 9.5	Chicago
FRANKLIN PARK	219 (L)	FMK; 332°, 9.5	Chicago
HARVEY (Rubinkam)	385 (GH)	MLWZ; 90°, 2.2	
JOLIET	257(JO)(116.1)	SBRAZ-VDT; 126°,3.6	(4); 116.1
→ CHICAGO-ORCHARD(Chicago)	396(126.18)	C	(4);126.18 (8-20)

INDIANA

McCOOL (Int)	359(ML) (116.1)	MHVT	(4); 116.1
McCOOL FM	(- - - -)	FM, 270°, 67	Goshen

OHIO

AVON LAKE LFM	(- - - -)	LFM, 325°, 8.1	Cleveland
→ BRECKSVILLE FM	(-)	FM, 201°, 10.3	Cleveland
→ CLEVELAND	344(CV)(116.1)	SBRAZ-VDTX	(3);116.1
Cleveland Airport	278 (126.18) (118.3)	AC (ILS);100°,0.7	(4); 118.3, 126.18
ELYRIA FM	(- - -)	FM, 280°, 10.9	Cleveland
ELYRIA	219 (S)	FMK, 280°, 10.9	Cleveland
NORTH ROYALTON LFM	(- -)	LFM, 145°, 10.8	Cleveland
VERMILION FM	(. - - - -)	FM, 280°, 26	Cleveland

VIRGINIA

[illegible] FM	(- - -)	FM, 224°, 9.6	Norfolk
[illegible] FM	(- - - -)	FM, 276°, 16	Norfolk NAS East Field
[illegible] Field (Army)	230(DLY) (116.1)	SBMRAPZ-VDT	(3); 116.1
[illegible] Field	278 (126.18) (116.1)	CA; 102°, 3.5	(4); 126.18 only
NORFOLK	239(NW)(116.1)	SBMRLZ-VDT	(4);116.1
Norfolk Airport	269 (126.18) (118.3)	AC; 44°, 3.4	(4);131.9,126.18,118.3
Norfolk (Navy)	356 (NGU)	BMRLZ	
Norfolk NAS(East Fld)	323 (142.74)	CN; 276°, 2.9	(3); 142.74
Norfolk NAS(Seaplane)	2870	CN	2870 (7-17 & on req)
OCEANA NAAS	3295(142.74)	CN	3105,4495;142.74(745-1830)

INSTRUMENT LANDING SYSTEMS *(Localizer and G.P. on mcs, Compass Locators in kcs)*

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
CHICAGO, ILL.	109.9		132° Mag.	IM ·····(.04)	MM	OM --(1.89)
					MMK 201 ···(.71)	OMK
CLEVELAND, OHIO	109.9		54° Mag.	IM ·····(.06)	MM	OM -(4.75)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,3117.5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Ashburn (Chicago)	12 SW;hwy W	620	16 S4	73,80 oct.Unsafe after rain.
Ashland Ave(Chicago Hgts)	1.5 NW;hwy S	675	29 S6	80,91 oct.Obsts sur.fld.
Aurora	3 NNW	701	33 S4	80 oct. Twr NE;stack SE.
(A,N) CHICAGO	9 SW of loop	610	65h R3 L6 S6	73,80,91 oct. FKE.
Chicago-Elmhurst(Elmhurst	2.5 N;hwy SW	707	27 S6	80,91 oct.Poles S.E.
(A) Chicago-Orchard (A)	16 NW;RR W	657	57h R1 S6	
→ Chicago-Hammond(Lansing)	1.5 S;RR N	660	17 L1 S6	73,80oct.Obsts sur. fld.
Harlem (Oaklawn)	2.2 WNW;hwy W	610	26 S6	80 oct.Pole line E.
Hinsdale	3 S;hwy SE	710	26 S6	73,80 oct. Rolling ground.
Howell (Blue Island)	3 W; hwy E	600	26 S4	80 oct. Obsts sur fld after 2400
Joliet,22,LS-OO	5 W;riv W	500	30h R1 L4 S4	80, 91 oct.Flood lgts prior req

h-hard surfaced runways. R-radio facilities. L-lighting facilities S-servicing (see page 111) (NC)-Not charted. → NEW OR REVISED DATA

ILLINOIS

AIRPORT—CITY NAME	LOCATION	ELEV.	CLASS	REMARKS
Lewis-Lockport(Lockport)	2.2 WNW;hwy E	664	26 S6	80,91 oct. Twr SE.Obsts sur fld.
Prosperi (Tinley Park)	1.7 SSW;hwy W	695	28 S6	80 oct.
Ravenswood (Des Plaines)	2.5 SW;hwy E	650	17 S6	80 oct. No sto.
(P) Rubinkam (Harvey)	2.5 SW;hwy N	615	47 L1 S5	73,80,91 oct.Use W part only.
St. Charles (NC)	3.5 E;RR E,S	760	18h	Pole line N.
Sky Haven(Bensenville)	1.5SE;bet RR,rd	650	22 S1	73,80oct. Use strips only.
Stinson (La Grange)	2 SE;hwy SE	644	25 S6	80,91 oct.Pole line S,W.
(P) Washington Park(Homewood)	1.5 SE;hwy E	625	30 S6	80,91 oct.Allway area.
Wood Dale (Glenview)	10.5 SW	711	30 S5	80 oct.
York Township(Lombard)	2 SSW;hwy N	726	20 S6	80 oct.Use strips.Pole line N,E.

INDIANA

Gamble (Hobart)	1.8 NNW;hwy S	650	30 S4	73,80 oct.Obst sur fld.
Gary	6 S;hwy W	610	26h S6	80,91 oct.Trees N,E,S.
★ McCool Int,3,CG-LG	2 SW;hwy S	654	24 R1 L3	
Michigan City	4 E;RR N	650	24 S1	80,91 oct.Pole line E,S,W.
Urschell(Valparaiso)	1.7 NNE;hwy E	766	26 S2	80 oct.Pole line N.

OHIO

Bedford	2 NE;hwy W	1060	17 S2	73 oct.
Brooklyn (Cleveland)	5.5 SW;RR S	780	26 S2	73 oct.
Chagrin Falls	3 E;hwy SW	1220	23 S4	80 oct. Pole line N.
Chagrin Harb.(Willoughby	2.5 NNW	620	22 S6	80 oct. Pole line W.
Chardon	2.8 S	1230	22 S1	80 oct. Pole lines sur fld.
(A) CLEVELAND	8.5 SW;riv W	785	60h R3 L6 S6	73,80,91,100oct.JP-1.FKE. ARPT.
Elyria	1.6 SSW;RR NW	745	30 S2	80 oct, Poles SE. OF ENTRY
Euclid Ave.(Willoughby)	1.5 WSW;RR N	640	26 S6	80 oct.Poleline S,hi-line N.
Lorain City (Lorain)	2.1 SW;RR N	610	31 S1	80 oct.Pole line NE,SE.
Lorain Skyport(Lorain)	2.8 W;lake NW	610	30 S1	80 oct.Pole line S,SE.Rnwy data unver.
Lost Nation (Willoughby)	3 N;lake NW	626	28 S6	80,91 oct.Obsts sur fld.
Mather (Cleveland)	5 SW;RR S	740	19 S2	80 oct.
Mid City (Hudson)	2 S;RR S	1080	31 S4	80 oct.Poles W,NW.
Ortner (Wakeman)	4 NNE;RR S		26 S1	73 oct.Data not verified.
Sky Haven (Northfield)	2.5 SSE;RR NE	1040	25 S4	73,80oct.No sto.Pwr line W,S.
Solon	1.1 SSE;RR NE	1034	24 S6	73,80 oct.Pole line SE,W.
★ Vermilion Int, 28,CG-LG	3.7 SW;RR SE	610	24 L3	
Ward (Bedford)	1.5 S;RR E	980	20 S4	80 oct.No storage.
Willoughby	1.2 E;RR NW	700	22 S6	80 oct. Pole line sur fld.

VIRGINIA

(N) Fentress NAAS (N)	2.5 ESE;hwy N	16	25h	INACTIVE.
(P) Franklin	1.7 NE	38	30h	
Garner's (Windsor)	4.8 NNE;hwy W	80	25 S2	80 oct.
Glen Rock (Norfolk)(NC)	4.5 E;RR S	18	24	Tvrs.pole line SW.
(A) Langley Field (A)	3 N Hampton	10	70h R2 L5 S6	73,91,100 oct.JP-1
(N) Monogram NAAS (Drivers)	2.8 W;riv W	21	45	INACTIVE. (N)
NORFOLK	5 ENE;RR SE	22	50h R2 L5 S4	80,91 oct.
(N) " NAS (Chambers)(N)	7 N;rd N	13	26h	CLOSED. Use East Field.
(N) " NAS (East Field)(N)	6 N;RR SW	15	43h R2 L5 S6	91,100 oct.NATS,NAFC.
(N) Oceana NAAS (N)	1 SW;RR N	20	60h R1 L5 S4	91,100 oct.No ben.
Peninsula(Hampton)	2 WSW;RR N	12	26 S4	80 oct.
Pungo	0.8 NE	15	25h	
South Norfolk (Norfolk)	6 SSE		36 S4	Fuel.No sto.Data unverified.
(P) Suffolk	3.8 SSW;RR E	66	50h	
Waverly	2.5 NW;RR SW	115	17 S2	80 oct.Trees,brush sur fld.
Virginia Beach Va.	4.5W;RR,hwy N	15	42 S4	80,91 oct.Pole line N.Data unver.
Lakeside (Gary) Ind.	7.5 W		35 S4	73,80 oct. Unverified.
Triangle (Dyer) Ind.	2 NE		27	Unverified.

RADIO

ILLINOIS

LOCATION	FREQ., IDENT.	STA. CLASS, BEAR. & DIST.	FREQS. GUARDED, HRS. OF OPER., REMARKS
JERSEYVILLE FM	(-)	FM, 355°, 21	St. Louis, Mo.
SCOTT (Belleville) (Army)	263 (DCD)	SBMRAPZ-DT	(4)
Scott Field	396	CA; 49°, 1.8	(4)

MISSOURI

LAMBERT-ST. LOUIS ARPT. (St. Louis)	278 (126.18) (142.74)	AC (ILS)	(4); 131.9,126.18,142.74
→ ST. LOUIS(Lambert-St.Louis Airport)	209 (LS)	SBRAZ-DTA 256°, 2.2	(3)
ST. PETERS FM	(- - - -)	FM, 275°, 14.2	St. Louis
SPANISH LAKE	219 (L)	FM; 69°, 7.8	St. Louis
SPANISH LAKE FM	(- -)	FM, 69°, 7.8	St. Louis

OREGON

→ PORTLAND	332 (PD)	SBRAZ-DT	(3)
Portland AAB	278 (126.18) (118.3)	AC; 171°, 1.1	(4);142.74,131.9,118.3,126.18
PORTLAND LFM	(- -)	LFM, 76°, 1.6	Portland
WILLAMETTE FM	(. . - -)	FM, 76°, 20.6	Portland

TEXAS

→ ALAMO (San Antonio) (San Antonio Airport)	344(JR)(116.1)	MLZ-VDT	(3); 116.1
BROOKS FIELD (San Antonio)	396 (126.18)	CA	(3); 126.18
KELLY FIELD (San Antonio)	219 (126.18)	CA	(3); 126.18
RANDOLPH (San Antonio)(Army)	359 (DRQ)	BMRLZ	(3)
Randolph Field	272 (126.18)	CA; 322°, 2.04	(3); 126.18
SAN ANTONIO (Kelly Field)	254(ZN)(116.1)	SBRAZ-VD, 107°, 1.8	(4); 116.1
San Antonio Arpt.(Alamo Fld)	278 (11[illegible].5)	C	(4); 118.5,131.9,126.18
SPRING BRANCH FM	(-)	FM, 354°, 21.6	Alamo

WASHINGTON

HOBART FM	(--)	FM, 88°, 15	Seattle
LAKEVIEW FM	(- - -)	FM 175°, 25.5	Seattle
KING CO. AIRPORT (Seattle)	278(126.18) (118.3)	AC	(4); 131.9,140.1, 126.18,118.3
McCHORD (Tacoma)(Army)	272 (DTA)	BMRL	
McChord Field	396 (126.18)	CA (ILS);260°,1.7	(3); 116.1, 126.18
→ SEATTLE (King Co. Airport)	260(SA)(116.1)	SBRAZ-VDX 256°,3.3	(3) 116.1
SEATTLE NAS (Navy)	332 (WN)	MH	(4) cont.
Seattle NAS	230 (142.74)	CW	(3); 142.74 (H-sunset) (GCA)
WASHOUGAL FM	(-)	FM, 63°, 17.5	Portland, Oregon
WOODLAND FM	(- - - -)	FM, 331°, 23	Portland, Oregon

– ST. LOUIS AREA –

INSTRUMENT LANDING SYSTEMS (Localizer and G.P. in mcs, Compass Locators in kcs).

LOCATION	LOCALIZER	G.P.	APPR.BEAR.	MARKER IDENT & MILEAGE (PLUS COMPASS LOCATORS)		
LAMBERT-ST. LOUIS, MO.	110.3		238° Mag.	IM ··-····(.06)	MM	OM --(4.50)
					MMK 201 ···(.60)	OMK

– SEATTLE AREA –

McCHORD, WASHINGTON	109.9	333.8	337° Mag.	IM (.26)	MM ·····(.85)	OM --(6.44)
					MMK	OMK

S-Simultaneous Range and Voice; W-Without Voice; Z-VHF Station Location Marker at Range Station; (3)-3105,4495,6210 kcs.; (4)-3105,4495,6210,311[illegible].5 kcs. Parenthetical Numbers in the Frequency Column Indicate VHF on which Voice is Available.

AIRPORTS

ILLINOIS

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Gundlach (Belleville)	1.8 E	514	23	Obsts surround fld.
Lakeside (E. St. Louis)	7 NNE; lake W	420	32 S6	73 oct.
Parks (E. St. Louis)	4.2 SW; RR SE	410	26 L1	25-75' obsts on fld.
Parks Metropolitan (East St. Louis)	3.5 SSW; RR W	420	17h S6	80, 91 oct.
(A) Scott (Belleville)(A)	7.5 ENE; RR S	444	55h R2 L5 S5	73, 91, 100 oct. JP-1.
Wadlow (Alton)	3.5 NNW	600	25 S4	80 oct.

MISSOURI

Black Walnut (St.Louis)	18 NNW	442	20	
Creve Coeur (St. Louis)	14.5 WNW;lake E	445	37	
Ellisville	0.4 NE; hwy S	750	16 S2	80 oct.
→ Kratz (St. Charles)	1.1 ESE; RR S	442	30 L S6	80, 91 oct. Port rnwy lgts.
(A) LAMBERT-ST.LOUIS(St.Louis)	10.8 NW;hwy N,W	552	60h R3 L6 S6	80-100 oct. Rdo req.
Machens (NC)	1 NNW	450	41	
→ Meramec (Valley Park)	1.5 ESE; riv N	440	30 L S2	80 oct. Port rnwy lgts. Pole line S.
(N) Neubeiser OLP (St.Louis)(N)	22 NNW; riv N	438	20h	
St. Charles	5.3 NNW; RR N	470	29 S6	80 oct. Poles E, N, NE, SE.
Starling (St. Louis)	14 SSW; RR E	615	26 S4	80, 91 oct. Obsts surround fld.
→ Sylvan Beach (Fenton)	2 NNW	442	42 L S2	80,91 oct. Port rnwy lgts. Pole line N.
Weiss (Kirkwood)	4 SW	430	15 S4	80 oct. Pole line NE, N.

h-hard surfaced runways. R-radio facilities. L-lighting facilities. S-servicing. (See page [illegible]) (NC)-Not charted. → NEW OR REVISED DATA

OREGON

AIRPORT— CITY NAME	LOCATION	ELEV	CLASS	REMARKS
Aurora Flight Strip	1.6 NNW; hwy W	196	41h	
Barrett-Schuler (Woodburn)	2.8 WNW; RR E	200	29 S1	73 oct. Pwr line NNE.
→ Bernard (Beaverton)	1.4 NNW; RR S	208	18 S6	80,90 oct.
Canby	0.5 NNW	150	17 S1	80 oct. Pwr line NE, SW.
→ Columbia Co. (Scappoose)	1.2 NE; RR W	55	40h L S6	80 oct. Port rnwy lgts. Pole line N,NW
Dwyer Landing Fld.(Portland)	7 SE; RR NW	200	16	Obsts ENE, WSW. Ditch around strip.
Green Acres (Mulino)	1.9 SSW; RR W	269	18 S4	73,80 oct. No sto. Obst SSE.
Hillsboro	2.4 ENE; RR S	200	41h L5 S6	73,80 oct. No sto.
(A,N) PORTLAND AAB (A)	5 NNE; riv N	19	55h R2 L5 S6	73, 91, 100 oct. JP-1. No sto.
R. O. K. (Oregon)	2.2 W; RR S	285	26 S5	73 oct. No sto. Pwr line E, ENE.
Sky Park (Oregon City) (NC)	2.7 SE, RR NW	440	27 S6	80 oct. Pole line S.
Sportsman Arpk. (Newberg)	1 E; riv SW;RR N	173	23 S2	Ltd 80 oct. Trees NNE.
Troh's Skyport (Portland)	6 E; riv N	250	26 S6	80, 91 oct.
Troutdale	1 NW; RR S	34	46h L3 S6	73, 80 oct.
Portland Birdsdale(Portland)	8.5 E;RR N	220	23 S6	80,91 oct.

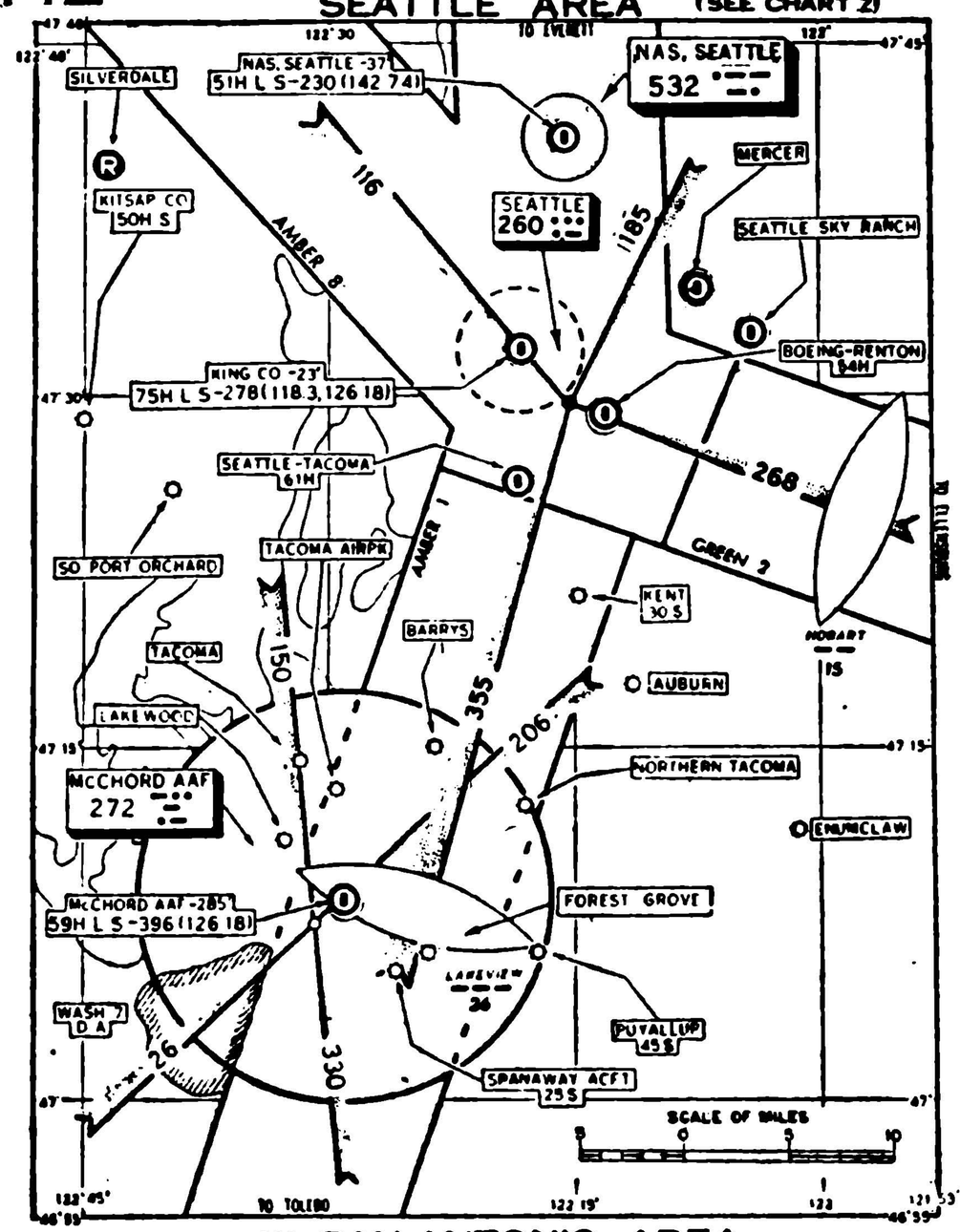
TEXAS

Bexar Co. (San Antonio)	7.1 SSW; rd W	640	32 S6	80, 91 oct. Poles,trees N,NW,W,S.
(A) Brooks (San Antonio)(A)	6.5 SSE; RR W	594	52h R1 L5 S6	73,91,100 oct.
Craigg (Sayers)	1.8 W; hwy,RR N	650	41 S1	80 oct.
Davis (San Antonio)	6.7 N; RR SE	780	16 S1	80 oct.
Hurt (San Antonio)	6.5 WNW; hwy W	680	36 S6	80 oct.
(A) Kelly (San Antonio)(A)	6.8 SW; RR NE	676	75h R2 L5 S6	62,73,91,100 oct.JP-1.FOREIGN CLEAR. STA.
Kuehler (New Braunfels)	1.7 SE; riv NW	720	18	Pole line NW. Cattle.
Lake (San Antonio)	10 S; RR E	700	23 S2	73 oct.
Leon Valley (San Antonio)	8.6 WNW;hwy E	710	40 S6	80,91 oct.Pwr line N,W, NW.
(A) Martindale(San Antonio)(A)	7.1 E; RR S	660	30h	
Mission (San Antonio)	4.5 S; hwy E	567	23 S6	80 oct. No sto. Pole line NNE.
(A) Randolph (San Antonio)(A)	15.8 ENE;RR NW	752	70h R2 L5 S6	91,100 oct. No sto.
→ SAN ANTONIO MUN-ALAMO	7.8 N;RR SE	783	55h R2 L6 S2	73,80 oct..
Stinson (San Antonio)	6.2 SSE; RR E	567	49h	
Yates (San Antonio)	13.7 N; hwy W	968	33	
(A) Zuehl No. 6 (A)	0.8 NE; hwy NW	610	30h	

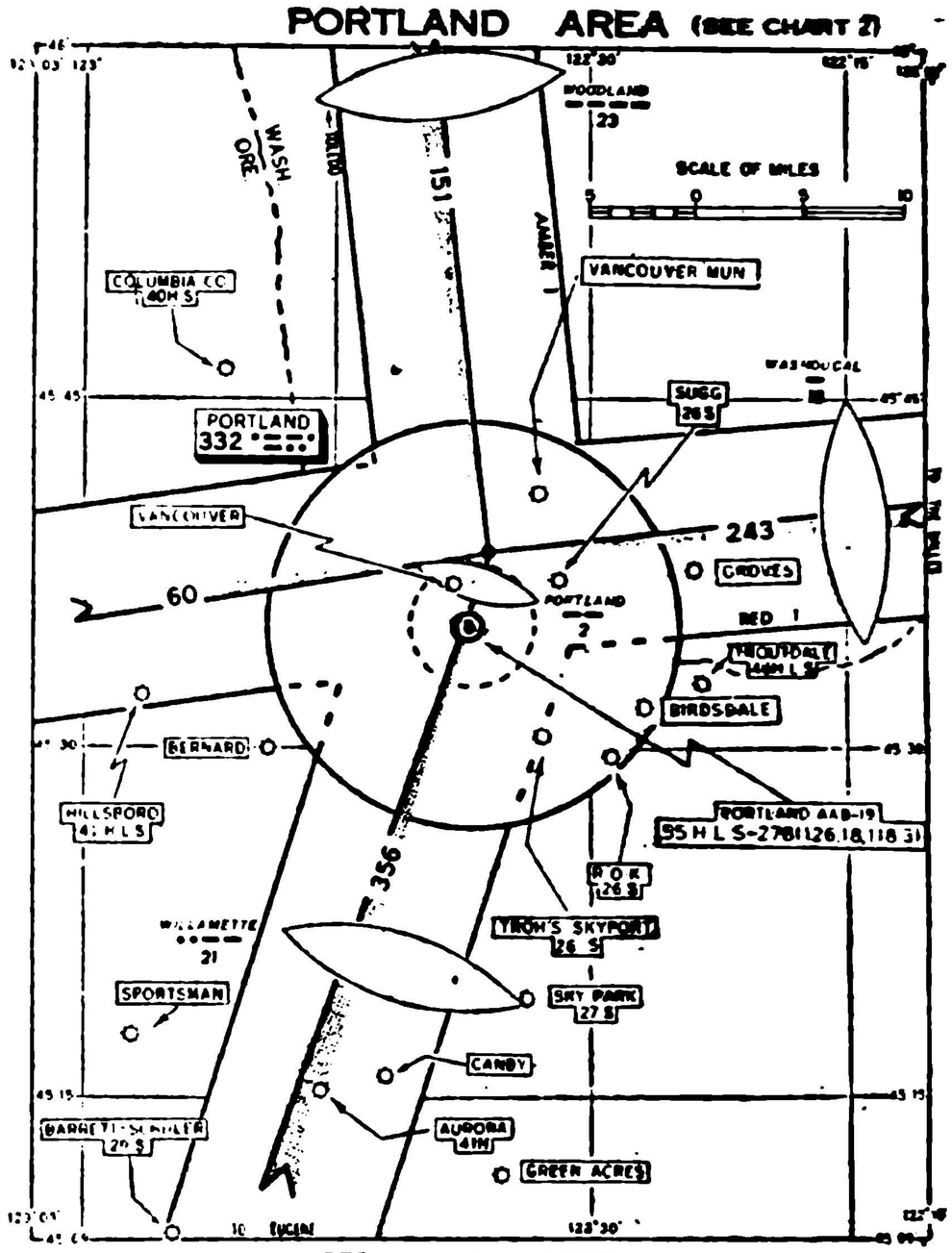
WASHINGTON

→ Barrys Sky Harbor (Tacoma)	2.3 ENE; riv SW	4	21 S3	80 oct. Pole line E.
Boeing-Renton (Renton)	0.9 NW;lake N	32	54h L5	RESTRICTED. All lgts prior req.
Enumclaw	1.5 WSW; hwy E	740	20 S2	Ltd 80 oct. Pwr line E.
Groves (Camas)	2.8 N;hwy E	350	16 S1	Ltd 80 oct. Lake SW.
Kent	1.5 SSW; riv N	30	30 S6	80 oct.
(A) KING CO.-BOEING (Seattle)	6 S; riv SW	23	75h R2 L5 S6	80-100 oct.No sto. ARPT OF ENTRY. FOREIGN CLEARING STATION.
→ Kitsap Co. (Bremerton)	8 SW; hwy NW	482	50h L5 S6	80,91 oct.No sto. Lgts on req.
Lakewood (Tacoma)	7.5 SSW;RR E	243	22 S1	80 oct. Trees ENE, WSW.
(A) McChord (Tacoma)(A)	7 SSW;lake SE	285	59h R3 L5 S6	73,91,100 oct.JP-1. FOREIGN CLEARING STN.
→ Mercer (Bellevue)	4.1 ESE;lake E	345	20 S5	80 oct. Tie-down sto.
→ Northern Tacoma (Puyallup)	1.3 N; RR N,S	20	19	
Puyallup	6 S; hwy W	520	45 S6	80,91 oct.Rnwy data unverified.
R. C. Sugg (Orchards)	3.6 SSE;hwy S	310	26 S6	80 oct. 6.8 E Vancouver.
→ Seattle Sky Ranch(Issaquah)	1.6 NNW;hwy S	50	25 S6	80,91 oct. No sto.hill S
(N) Seattle NAS (N)	6.5 NNE;lake E	37	61h R1 L5 S6	91,100 oct.
(N) Seattle-Tacoma (Seattle)	10.5 S;RR E	405	61h	Trees and hills surround fld.
→ Silverdale				ABANDONED
South Port Orchard (Port Orchard)	7.5 SSW;lake S	350	19 S4	80 oct. No sto. Trees N, S.
Spanaway Acft Co.(Spanaway)	1.2 SSE;RR S	375	25 S1	80 oct. Pole line S.
→ Tacoma	4.4 W;hwy SE	369	22 S6	80, 91 oct.
→ Tacoma Airpark (Tacoma)	2.9 WSW;RR E	250	20 S4	80 oct. Sharp drop W edge fld.
Vancouver	1 SE	26	19 S6	Ltd 80 oct. No sto.
" mun.	6.7 ENE;hwy W	240	26 S1	80,91 oct.
→ Forrest Grove (Spanaway)	1.8 E;RR E	340	30 S6	80 oct.
Auburn	1.8 ESE;hwy S	276	20 S6	80 oct. Trees
→ Ross (St.Louis,Mo.)	4.8 NNW;RR SE	430	30 S6	80,91 oct. Poles sur fld. Lgt acft only.

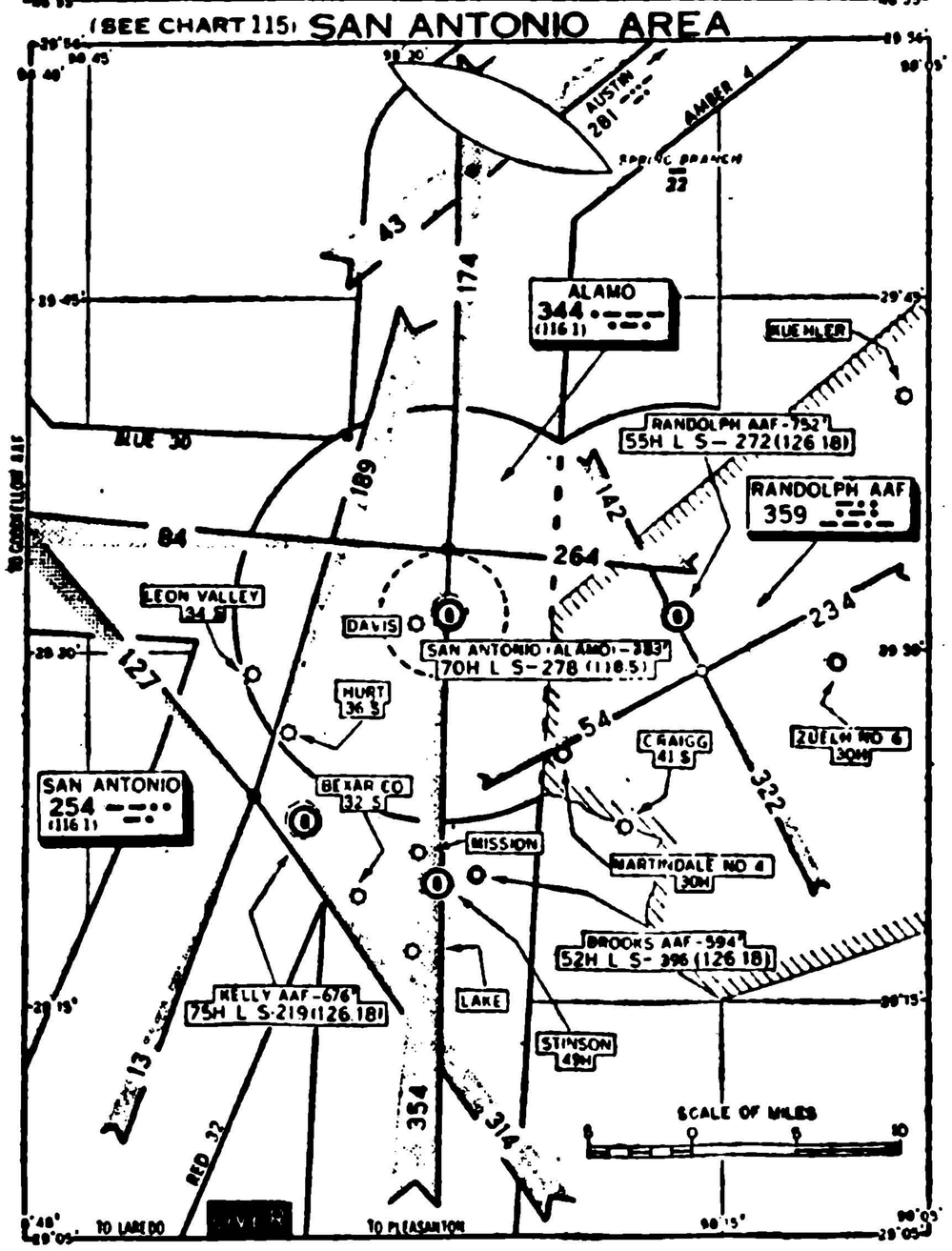
SEATTLE AREA (SEE CHART 2)



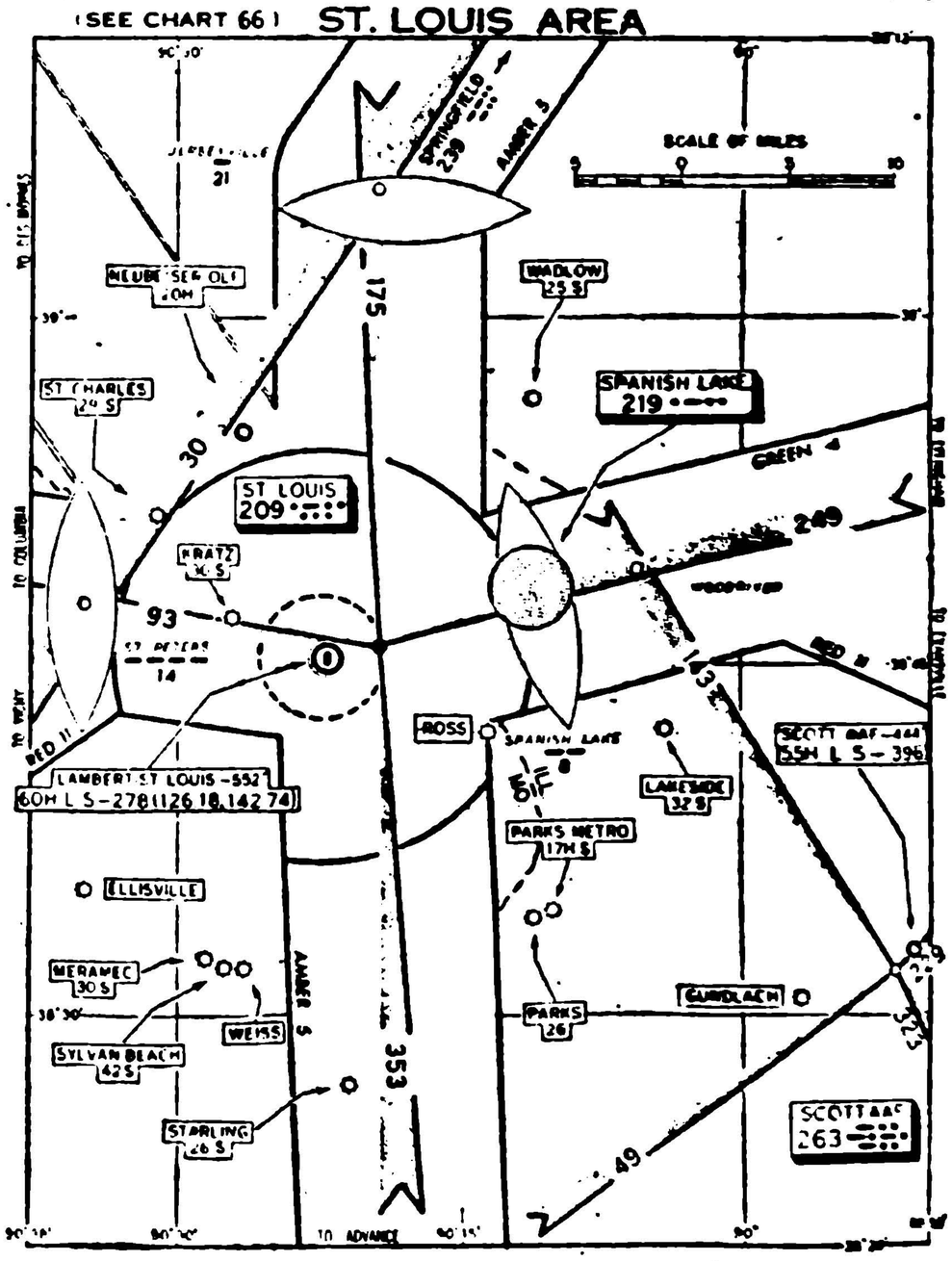
PORTLAND AREA (SEE CHART 2)



SAN ANTONIO AREA (SEE CHART 115)



ST. LOUIS AREA (SEE CHART 66)



● DESIGNATED RADIO FIX

○ NON-COMPULSORY REPORTING POINT

NOTE:
HEAVY LINES ON SIDES OF RADIO LEGS INDICATE B CORRIDORS.

AIRPORTS LESS THAN 2500 FT. IN LENGTH, HAVING UNPAVED RUNWAYS AND NO LIGHTS CANNOT BE CLOSED IN DIFFICULT SIDE.

R: EXTREMELY HAZARDOUS

①: USABLE WITH CAUTION

Directory of Seaplane Bases and Anchorages

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
CALIFORNIA				
(N) Alameda NAS (N)	4.5 WNW	S.L.	211 R1 L5 S6	73,91,100 oct. Ramp: tractor.
(N) Corcoran, Tulare Lake	15.5 WSW	200	74 R1 L1	Buoys. Pole line N,E;dikes NW,W,S
Lakeport, Clear Lake	E of Lakeport	1325	Unl	Buoy.
Oakland	6 S	S.L.	S4	Ramp;beach;haul-out.Data unver.
(N) San Diego NAS (N)	4.5 WSW	S.L.	106 R1 L S6	87,100 oct. Ramps; haul-out.
(CG) San Francisco CGAS (CG)	9 SSE	S.L.	132 L5 S6	91,100 oct. Ramps; all facs.
(N) San Pedro NAS (N)	2 ENE	S.L.	Unl L1 S4	73-100 oct. Ramps; all facs.
CONNECTICUT				
Greenwich	0.8 S	S.L.	Unl	PRIVATE. Ramp. Congested harbor.
Stratford,United Acft.Corp	2 SW	6	53	PRIVATE. Ramp.
Westport	2 S	S.L.	Unl S4	80 oct. Float; marine railway.
Cromwell	0.8 S;hwy W		90 S4	80 oct.Float;ramp.Data unverified.
DISTRICT OF COLUMBIA				
(N) Anacostia NAS (N)	2.4 SE Mon't	8	106 S4	87-100 oct.Ramp;all fac prior req.
FLORIDA				
Avon Park,Lake Lotela	2 SE; RR SW	100	66 S1	80 oct. Beach;
(N) Banana River NAS (N)	11 SE Cocoa	S.L.	116 L S6	87,98 oct. Ramps; all facs.
Bradenton	Adj N	1	Unl S1	73 oct;80 oct req. Ramp;float.
Clarcona,Hidden Acres	1.5 WNW	90	30 S6	80 oct. Data unverified.
Daytona Beach,Bob Orrell	2 N	S.L.	264 S4	Ramp; float.
" Raymond's	1.5 N	S.L.	Unl S6	80 oct;91 oct req.Ramps;piers;boat
Fort Myers,Gulf Airways	2 N	S.L.	Unl S4	80 oct.Ramp;all facs. Data unver.
(N) Jacksonville NAS (N)	7.2 S	S.L.	Unl R1 L5 S4	91,100 oct. Ramps;all facs.
" Riverside	Adj city	7	Unl S1	80 oct. Beach.Data unverified.
(N) Key West NAS (N)	7 ENE	S.L.	130 R1 L S6	91,100 oct. Ramps;buoys.ARPT OP
Lakeland, Municipal	Adj NE	145	Unl S1	80 oct. Data unverified. ENTRY
Lake Worth, Municipal	Adj city	S.L.	Unl S1	80 oct.Ramp;beach.Obsts E.Unver.
Leesburg, Hal Hoover's	1 N	15	Unl S1	80 oct.Ramp;beach;dock.Data unver.
Melbourne	Adj S	S.L.	Unl S1	80 oct. Float
Miami, Chalk's	2 E;causeway	S.L.	Unl S4	80 oct. Beach;ramps;winch.ARPT OP
(CG) " Dinner Key CGAS (CG)	2.5 SE	S.L.	150 L3 S4	100 oct.Ramps;haul-out.CLSD ENTRY
" E.Coast Avia. Service	8 NNE	S.L.	132 S4	80 oct. Ramps;buoys. Obsts.
" Embry Riddle	2 E;causeway	S S.L.	65 S4	80 oct. Ramps.
" Miami Avia. Center	8.5 N	S.L.	Unl S1	80 oct. Data unverified.
Orlando.Orlando Aviation Country Club	5 N	90	60 S1	80 oct. Ramp;beach. Data unver.
" Raymonds	2 W	70	50 S1	80 oct.Float.Twr NE.Data unver.
(N) Pensacola NAS (N)	5.3 SW	S.L.	116 R1 L1 S6	87-100 oct.Ramps; all facs.
(N) " Bronson NAAS (N)	12 WSW	S.L.	Unl L4 S4	87,91 oct. Ramps; all facs.
St. Augustine	Adj SE	S.L.	Unl S1	80 oct. Float; beach; dolly.
St. Petersburg.Albert Whitted	0.75 SE	S.L.	Unl S6	80,91 oct. Data unverified.
(CG) " CGAS (CG)	2.5 E	S.L.	Unl L S4	80-100 oct. Ramps.
" James Johnstone	7 W	S.L.	Unl S6	80 oct. Ramp; all facs.Data unver
" Pinellas County	11 NNW	S.L.	Unl S1	80 oct. Data unverified.
Tampa, Peter O.Knight	4 S; arpt W	8	Unl S6	80 oct. Ramps; all facs.
Titusville	Adj NE	S.L.	Unl S1	73 oct; 80 oct req. Data unver.
West Palm Beach, Midet	1 N	S.L.	158 S4	80,87 oct.Ramps;all facs.ARPT OP ENTRY.
IOWA				
Davenport,Elliot Fly.Serv	Adj S	550	60 S1	80 oct.
LOUISIANA				
Cross Lake	5 NW		100 S4	Fuel; dock.Data unver.
Westwego	1 E	S.L.	53	PRIVATE.May Brothers.

CITY AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
MAINE				
Bath, New Meadows	2.3 WNW; RR S	12	60	Beach. N,S approaches blocked.
Boothbay,Frank L.Sample Jr	Adj	S.L.	Unl S1	Ramp; float.
Brunswick,Riverside Arpk.	1 WNW;RR,hwy S	60	58 S1	80 oct. Beaching.
Dexter,Heart of Maine	0.5 N	433	40	Buoys;boat. Trees N,S,W.
Eagle Lake	3.8 N	574	70 S1	80 oct. Obsts.
East Holden,Holbrook Pond	1.1 NNE	200	50 S1	73 oct. Ramp;dock.
Eastport	1 W	S.L.	Unl	Ramp.
Fryeburg	2 E	358	120	Trees encircle lake.
Greenville,Moose Hd.Lake	0.6 NNW	1028	50 S4	91 oct. Ramp.
" Jct.,Squaw Mt. Inn	1.5 N	1028	52	Buoy;boat;beach;float.
Madison, Tomlinson	6.8 NE	330	130	Boat;beach;ramp.
Naples	0.5 NNW	267	160 S1	80 oct. Boat.
Portage,Portage Lake	0.4 WSW	609	160 S4	80,91 oct. Beach; boat.
Shinn Pond	0.7 NE	900	60 S1	80 oct.Buoys;beach;wharf; Obst.
Winthrop,Inland Fish & Game	2.7 NNE	212	127 S1	80 oct.Buoys;beach;float.
MARYLAND				
(N) Annapolis NAF (N)	1 E	S.L.	Unl S2	Ramp;haul-out;buoys.
(N) Baltimore,Middle River NAF	10 E	S.L.	Unl S6	91,100 oct.Ramp;buoys. (N)
Baltimore	7 S; bay E		Unl L1 S4	Ramps.
Glen Burnie-Whipp	1.5 E	50	100 S6	80 oct. Ramp.
(N) Patuxent River NAS (N)	2.9 NE of Jarboesville	S.L.	Unl S4	90,100 oct. Ramps;buoys.
MASSACHUSETTS				
Agawam	1 SSE	30	100 S6	80 oct. Ramp; all facs.
Beverly,Jubilee Yacht Club	Adj S	S.L.	105 S1	Beach;dock. Avail. May - Oct.
Chatham	Adj W	S.L.	33 S2	Ramp;dolly;buoy.
Holyoke, Smiths Ferry	4.5 N	100	95	Obsts. NE, SW.
Lawrence,Merrimack Val'y Skypt	2 E	7	83 S4	No sto. Ramp;float.Data unverified.
(CG) Salem CGAS (CG)	2.5 E	S.L.	150 S4	91,100 oct. Ramps.
(N) Squantum NAS (N)	0.8 W	10	Unl S4	73-100 oct. Ramps;buoys.
Swansea,Swansea Boat Yard	2.5 SSW	S.L.	211	Float;buoys;beach.
MICHIGAN				
Algonac	2.8 W	574	50 S1	73 oct.
Detroit,Motor Boat	6 ENE	575	Unl S1	Dock. Peach Island S.
" Seapl. Patrol Base Inc	4 ENE	575	Unl S1	73 oct. Dock. Belle Island S.
Kalamazoo, Austin Lake	8 SSE; RR E	855	100 S4	80 oct. Boat;beach;tractor.
North Muskegon,Interstate	0.3 S	581	100	Ramp;boat;dolly.
Trenton, Hance	5 NNE	574	Unl S1	73,80 oct. Beach;ramps.
Whitmore Lake	1 NNE	894	84 S4	Beach;boat;ramp.
MINNESOTA				
Bemidji, Moberg	1 NNE	1350	S2	80 oct.
Ely	1.5 W	1337	110 S2	80 oct. Ramps;dock.
Little Falls,Scenic Airways	0.5 N	1110	35 S1	80 oct. Ramps;beach, Poles S.
Marcel, Ranier	0.5 E	1300	30	Trees around lake.
MISSISSIPPI				
(CG) Biloxi CGAS (CG)	2 ESE	S.L.	54 S4	91 oct. Ramp.
NEW HAMPSHIRE				
Alton Bay,Interstate Awys	Adj N	504	Unl S1	80 oct. Ramp;buoys;wharf.Data unver
Hooksett	2 S	2	80 S6	80 oct. Beach;ramp;tractor.
Lakeport, Paugus Bay	1 NE	504	100 S4	73 oct. Beach;boat;ramp.
The Weirs, Weirs	0.3 SE	504	210 S4	80 oct. Ramps.
Wolfeboro	0.5 SE	504	180 S1	80 oct. Boat;wharf.
" Lakes Region	2.7 W	504	60 S6	80 oct.Ramp; all facs.
" Lake Winnepesaukee	3 WSW		60 S1	80 oct. Data unverified.

R-radio facilities. L-lighting facilities. S-servicing. (See page xiii) → NEW OR REVISED DATA. N.B. Seaplane bases and anchorages are not charted.

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
NEW JERSEY				
Cape May CGAS (CG)	2 NW	S.L.	60	Ramp; haul-out; buoys. INACTIVE
Little Ferry	0.5 E;brdg N	5	40 S6	80 oct.Boat;ramp;tractor.
Perth Amboy	0.5 S of brdg	5	Unl S1	80 oct.Ramp;all facs.Data unver.
Ridgefield Park,Lambrose Air College	0.5 S	5	40 S4	80 oct. Boat; ramp; winch.
" Mellor-Howard	1 S	5	35 S4	80 oct. Ramp; all facs.
Secaucus, Down Patrol	0.5 N;brdg SW	5	50 S2	73 oct. Winch.
NEW YORK				
Alpaus, Wells	0.5 SW	200	50 S4	80 oct.No sto.Ramp.Hi-line E.
Babylon Skyport	1.5 SW	S.L.	Unl S4	80 oct. Ramps;boat.
Buffalo	7.3 NW	570	103 S6	80 oct. Ramp; all facs.
Cooperstown, Otsego	Adj NNE	1194	Unl S1	80 oct.Float;ramp;buoys;winch.
Dobbs Ferry	0.5 SW	5	100	Marine Ry;ramp;winch;float.
Eagle Bay, Adirondack	0.3 S	1707	70 S1	80 oct. Beach.
Lake George, Hall's	0.5 E	330	52 S1	73 oct. Ramp; all facs.
Montauk Yacht Club	2.5 NE	S.L.	Unl S1	87,oct.Buoys;floats. Avail.May-Oct
New York,Downtown Skyport	Foot Wall St.	S.L.	S1	Floats.
" Evers	11 NE	5	70	Ramp;buoy;boat;winch. Bridge SSW.
(N) " NAS (N)	11.8 SSE	S.L.	100 S4	73,91,100 oct.Ramps;tractor.
" La Guardia	5 E	S.L.	211 L1 S6	73-100 oct, Ramps;winch;buoys.
North Long Beach	0.4 N;brdg SW	S.L.	75 S4	80 oct. Ramp;float.
Ossining, Pickair	0.5 W	3	158 S4	80 oct. Boat;ramp.
Oyster Bay,Cold Sprg Harb.	2 E	10	50	Buoys;beach;boat;dolly.
Piseco, Knox Bay	1.5 S	1661	163	PRIVATE. Boat;beach;tractor.
Port Washington,Grumman	1.5 NW	S.L.	158 S4	Ramps; all facs.
Rochester,Point Pleasant	6 NE	246	Unl S1	80 oct. Ramp;float;dock.
Round Lake	0.5 E;RR S,W	188	48 S6	80 oct. Beach;boat;tractor.
Sag Harbor	0.5 N	5	103	PRIVATE. Ramp;tractor.
White Stone, Queens	1 N	S.L.	200 S4	80 oct Ramp;dock.
Yonkers	S end	S.L.	Unl S4	Ramp. Closed Dec 15 - Mar 15.
NORTH CAROLINA				
(CG) Elizabeth City CGAS	3.5 SE	S.L.	106 L1 S4	91,100 oct. Ramps; all facs.
" Harvey Point	13 S	S.L.	Unl	Ramps.
OHIO				
Cleveland,Breckling Air Service	1 E	573	30 S4	80 oct.No sto.Ramp;boat.Data unver buoy
OREGON				
Milwaukie, Portland	3 W	10	32 S4	80 oct. Ramps;boat;beach;winch.
Ocean Lake, Devils Lake	0.7 E	S.L.	59 S4	80 oct.No sto. Beach;winch.
Portland, Safley's	5 NNW	26	60 S1	Ltd 80 oct. Ramp;beach;winch.
PENNSYLVANIA				
→ Aspinwall, Highland	0.7 S		Same as Highland Seaplane Base, Pittsburgh.	
Beaver	0.5 S	670	50 S1	80 oct. Boat;beach;ramp;tractor.
Corsopolis	0.5 N	675	50 S1	80 oct. Boat;ramp.
Edinboro	1.2 NNW	1200	Unl S1	Ltd fuel.Beach;boat;haul-out.
Harrisburg, Air-Harbor	1 SSW;brdg SE	300	30 S4	80 oct. Boat.No sto.
Kittanning, Sedwicks	0.2 W	769	50	Float;beach;boat.
→ McKeesport	1.3 NW			ABANDONED.
Milton	1.5 SW	440	50 S	Svcg from Milton Arpt.
Oakmont	Adj NW	725	52 S1	80 oct. Float.
Philadelphia	10 SW	10	Unl S6	80,91 oct. Ramps; all facs.
" Philadelphia Skyport	Center of city	10	Unl S6	Boat;all facs. Data unverified.
(N) " Mustin NAS (N)	4 S	S.L.	120 S6	87-100 oct. Ramp.
Pittsburgh, Buck's	at riv inter.	715	70 S6	87 oct.Boat;beach;ramp;winch.
" Dravosburg	5 SE;jct rivs	718	50 S2	80-100 oct. Ramp;float;boat.
→ " Highland	5 NNE	721	66 S6	80 oct. Ramp;all facs.Data unverif
Rochester	0.5 S	670	78 S1	80 oct. Float;boat.

CITY—AIRPORT NAME	LOCATION	ELEV.	CLASS	REMARKS
RHODE ISLAND				
Newport	3 NW	S.L.	Unl	Ramps;buoys;boat.
(N) Quonset Pt.NAS(Providence)	16.5 S	S.L.	Unl L5 S6	91,100 oct. Ramps; all facs. (N)
TEXAS				
(N) Corpus Christi NAS (N)	9.5 SE	S.L.	Unl R1 L3 S5	91,100 oct. Buoys;ramps.
La porte, Fay Bros.	2 NE	S.L.	Unl S1	No sto. Floats;marine ry.Data unver.
VIRGINIA				
(N) Dahlgren NAF (N)	Adj SE	10	S2	Ramp.
(A) Langley (A)	3 N Hampton	5	105 S2	Dock;Closed during ice period.
(N) Norfolk NAS (N)	7 N	S.L.	54 R1 L1 S6	87,91,100 oct. Ramps.
(N) Quantico MCAS (N)	1 S	13	120 S4	Buoys;boat;ramp.
WASHINGTON				
Bellingham	5 ESE	307	158 S2	73 oct. Boat;ramp;winch.
" Lakeside Fly. Serv.	3 E	307	106 S1	73 oct. Buoy;boat.
Bremerton	0.75 E	S.L.	211 S6	80 oct.No sto.Ramps;winch;hoist.
(N) " NAS (N)	0.5 S	S.L.	Unl S4	Ramp;buoys;haul-out.
Chelan, Air Harbor	0.8 W	1079	Unl S1	73 oct. Boat;beach;ramp.
Coulee Dam	3 ESE	1275	Unl S2	73 oct. Boat;beach;marine ry.
Longview, Sky Harbor	1.3 ENE	5	37 S1	73 oct. Float;beach.
(N) Oak Harbor NAS (N)	0.5 SE	S.L.	Unl R1 S	Fuel,sto,prior req.Ramps;buoys.
Oroville, Dorothy Scott	1.7 N	913	52	Boat;beach.
(N) Port Angeles CGAS (N)	2 NNE	13	Unl S4	Ramp; all facs.
Port Townsend	Adj S	S.L.	150 S4	Ltd fuel. Buoys.
Prosser, L & D	1 W	632	76 S1	80 oct. Ramp. 100' pole line WSW.
Seattle,Kurtzer Fly.Svcg.	In city	S.L.	79 S4	80 oct. Ramps;hoist.
(N) " NAS (N)	6 NNE	36	300 L S6	87-100 oct. Ramps; all facs.
" Seattle Service	In city	20	53 S2	80 oct. Ramp;boat.
Tacoma, Float Haven	0.7 NE	S.L.	26 S1	80 oct.Ramp;floats;boat;winch.Prdg SSE.
Wenatchee	0.5 E	600	53 S1	73 oct.Boat;beach;ramp.
WEST VIRGINIA				
Charleston,Kanawha Flying School	Center of city	586	50 S6	80 oct. Boat;ramp;winch.
Wheeling	Center of city	630	50 S1	87 oct.Boat. Bridges S.
South Charleston	W of city	560	Unl S6	80 oct. Boat;ramp;winch. Data unver.
WISCONSIN				
Madison, Jackson	3 WNW	849	Unl S2	80 oct. Dock;float
Milwaukee	3 ESE;hwy w	585	185 S6	80,91 oct.
Bangor, Down East (Maine)	3 NE		106 S4	80 oct.No sto.Ramp;float;beach,Data unverified.
Fall River (Mass.)	2 E	131	119	Data unverified
Gloucester (Mass.)	0.3 W	S.L.	50 S4	80 oct.No sto.Morrings;float.Data unverif.
Holyoke,South Hadley(Mass.)	3 N	95	66 S3	80 oct. Data unverified.
Lowell (Mass.)	1 W	95	92 S3	Data unverified.
→ Lawrence,Merrimac Val'y(Mass)	2 W	45	50	Data unverified.
New Bedford (Mass.)	In harbor	S.L.	Unl	Data unverified.
Athens (New York)	Adj E		Unl S1	73 oct. Float. Data unverified.
→ Bay City,James Clements	3.7 S	580	35 S4	80 oct. Data unverified.(Mich.)
→ Comstock Park,Grand River	1 S		50	Data unverified. (Mich.)
→ Curtis,Ostrander's Forest Inn (Mich.)	1 N		Unl S1	80 oct. Moor.Data unverified.
→ Iron Mountain,Lake Antoine	1 NE		Unl	Beach. Data unverified.(Mich.)
→ St.Clair Shores,Jay Bee	Adj.		Unl S1	80 oct.Ramp.Data unverified.(Mich.)
→ Old Mission (Mich.)	Adj E.	581	120 S1	80 oct.Beach.Data unver.(Mich.)
→ Connecticut Valley(Windsor Locks,Conn.)	2.5 S.		158 S4	80oct.Hi-tension wires N.Closed winter.Data unver.

R-radio facilities. L-lighting facilities. S-servicing. (See page x(ii)) → NEW OR REVISED DATA. N.B. Seaplane bases and anchorages are not charted.

NOTICES TO AIRMEN

INTRODUCTION

PROCEDURAL STATEMENT: The AIRMAN'S GUIDE no longer has a separate section for the DIRECTORY OF AIRPORTS or the AIR NAVIGATION RADIO AIDS. These two sections are now inserted as data pages between the flight planning charts. To retain the 2-page chart flow, however, the data pages are found on the reverse sides of the charts rather than facing them. On the data pages are tabulated all the data covering the facilities charted on the reverse sides and formerly found in the DIRECTORY OF AIRPORTS and AIR NAVIGATION RADIO AIDS sections. To facilitate reference to a particular facility, an Index of Facility Locations with the parenthetical number of the page on which the locale is charted has been added to the revised AIRMAN'S GUIDE, e.g., Chicago (139). On the back of page 139 will be found the Air Navigation Radio Aids and the Directory of Airports data covering Chicago.

Because of the serious paper shortage every means of reducing the Airman's Guide bulk has been investigated. Codification and considerable abbreviation are already being utilized. No material may be deleted, however, in this paper conservation program because surveys have revealed that subscribers consider all parts of the Guide essential. Consequently, about the ultimate step in this bulk-reduction direction has just been taken. The data pages backing the charts now serve, where possible, as notam pages. Resultantly, most of the new data formerly notamized in the Notices to Airmen section with prefixed large stars or double asterisks are no longer carried in that section. Only commissionings, abandonments, or changes so potentially hazardous that they are indicated with Ⓡ (for red flag) symbols on the charts, are now cited in the Notices to Airmen section.

Notamizing on the data pages is effected by the use of prefixed arrows as in the former Air Navigation Radio Aids publication. All changes from the previous issue, whether cited in the Notices to Airmen section or not, are indicated by the prefixed arrows. Following are examples of changes notamized only on the data pages: field obstruction, servicing, elevation, location, and runway length changes. Because of the use of the prefixed arrows as new data indicators, a further innovation had to be adopted. This is a heavy black horizontal line device.

Space below the heavy black horizontal lines on the data pages has been reserved as a supplement for new radio aids and airports whose data were received after the data pages were originally typed. Revisions to existing airports and radio aids are super-imposed on the old data, but new airports and radio aids are listed, necessarily out of alphabetical alignment, below the heavy black horizontal lines until the page is re-typed.

In summation: (a) on the data pages backing the charts, new data or revisions are indicated by arrows; (b) in the Notices to Airmen section, citations covering new or revised radio data are prefixed by one large star "★". Citations covering new or revised airport, or miscellaneous data are prefixed by two asterisks "**".

All temporary conditions (field soft, runway under construction, range course out of alignment, etc) are cited in full until they are no longer in effect. When a citation carries a permanent item and a temporary item, the permanent item is underlined. Parenthetical date at end of item indicates time item was reported.

To conform to chart practice, all facility data are listed in the Notices to Airmen section and on data pages alphabetically by states and by facility name. Thus, an airport will be found listed alphabetically under its own name rather than under its locale's name. If the airport or radio facility name is other than that of the city in which it is located, the location is shown in parenthesis after the facility name.

CIVIL FACILITY DATA: Please advise immediately the Office of Aviation Information, Attention A-250, CAA, Department of Commerce, Washington 25, D. C., whenever temporary conditions covering civilian airports or navigational aids begin or terminate, data revisions are effected, or flight hazards are erected or removed.

SPECIAL NOTICES

ARMY DATA: Advice covering Air Forces Fields or Air Forces Operations on civilian fields, or AAF Radio Facilities, and Danger or Caution Area activation, as well as requests for approval for the closing of any army airfields to transient military aircraft for a period in excess of ten days should be directed to: COMMANDING GENERAL, AIR TRANSPORT COMMAND, WASHINGTON 25, D.C. ATTENTION: HEADQUARTERS FLIGHT SERVICES, FLIGHT OPERATIONS. Information to be published will be coordinated and submitted to the C.A.A.

NAVY FACILITY DATA: In accordance with Hydrographic Office Memorandum for Aviations No. 9, July 29, 1946, Hydrographic Office information concerning naval and marine corps air stations and facilities, including changes in field facilities, operation rules, air/ground communications facilities, instrument approach procedures and navigational aids, should be directed to: The Division of Air Navigation, Hydrographic Office, Washington 25, D. C., for transmittal to the Civil Aeronautics Administration. In accordance with Aviation Circular Letter #96-46 of June 13, 1946, approval for the closing of any naval or marine corps air station or facility to transient military aircraft for a period in excess of 10 days must be obtained from the Chief of Naval Operations. Also, approval is to be obtained from the Chief of Naval Operations before relocation or modification of any aid to air navigation, such as reorientation of radio ranges.

POLICY ON ARMY USE OF TEMPORARILY INACTIVE ARMY AIR FIELDS: 1. Municipal airfields which have been used jointly by the Army Air Forces and civil interests and at which Army facilities are temporarily inactive but the civil facilities are still active, may continue to be used by military aircraft. No servicing other than that provided by commercial concerns will be available. Such airfields will be identified herein by the following notice: "Army temp inactive - civil facs". 2. Temporarily inactive Army airfields used exclusively by the Army Air Forces (either owned or leased) or municipal airfields used jointly by the Army Air Forces with civil interests at which both Army and civil facilities are inactive will be available to military aircraft on official business only under written orders of an air force, command or higher authority. Individual orders for each flight rather than blanket authority is desired. Such airfields will be identified herein by the following notice: "Temp inactive - no facs. (see Special Notice re use)". Operation of Air Transport Command hospital evacuation aircraft will not be limited in any respect by above policy. Above policy statement is not to be construed as countermanding any AAF regulations or letters governing command use of municipal airports or Army airfields.

"OFFICIAL BUSINESS" AS APPLIED TO AAF: The term "official business", within the meaning of AAF Regulation 85-2, is interpreted as the necessity for personnel aboard an aircraft to contact personnel, units or organizations at or near the airfield selected for landing for the purpose of conducting transactions in the service of, and in the interest of, the United States Government. This does not include the use of an airfield by transient aircraft for the purpose of obtaining aircraft clearance, service, or other items attendant with itinerant operations. Cross country flights for the purpose of maintining flying proficiency are not considered to be official business within the meaning of this regulation.

AIRPORTS AVAILABLE FOR USE BY MILITARY AIRCRAFT: The attention of Army clearance personnel and of Army pilots is invited to provisions of Section III of Army Air Forces Regulation 85-2, which states in part: "The use by Army aircraft of private airports which have not been leased, purchased, or otherwise acquired by the

✓ Indicates new or revised Special Notice.

Federal Government is unauthorized except in case of emergency or for official visits authorized by an Air Force or Command". This Regulation furhter states "AAF transient itinerant acft may utilize: (a) Government or DLA (development landing area) type airports, subject only to such restrictions as may be listed from time to time in Weekly Notice to Airmen..... (b) Private arpts when legal permits for their limited use are procured by, and filed with the real estate agency of the War Department.....". Reference to the AAF Installations Directory,and to the Data Pages as well as the Notices to Airmen section of the Airman's Guide should be made in case of doubt as to the proper use of fields. On the data pages, all AAF installations are designated by the prefix (A), Navy by (N) and DLA by (P).

RESTRICTION ON C-45, AT-7, AT-11, F-2, and CQ-3 ARMY AIRCRAFT: Upon compliance with following items and notation in Form 1B of each aircraft certifying completion, above types of aircraft may be cleared for IFR flight: (a) Replace all gyro units which on flight check spill either gyro at less than 45°; (b) Compliance with T.O. 01-90C-9; (c) Compliance with applicable modifications on auto-pilots prescribed by T.O.'s 01-90-50, 01-90-54, 01-90-52, 01-90-56; (d) Modify receiver dials so that index is turned 90° toward pilot as described in item 7, page 6, T.O. 00-65-14; (e) Periodic inspections prescribed in T.O. 05-45BA-2 for Jack and Heintz instruments and T.O.45AB-2 for Sperry instruments.

RESTRICTION ON FLIGHT OF AAF AIRCRAFT IN NEW YORK CITY AREA: Effective immediately no AAF acft except those on scheduled transport operations will be cleared to New York City Area unless point of first intended landing is Mitchel Field, Hempstead, L.I., N.Y. When instrument conditions prevail in New York City Area, no Army acft except those on scheduled transport operations will land at or take off from other than Mitchel Fld. When contact conditions prevail in New York City Area, acft which have been cleared for Mitchel Fld but which desire to land at other authorized fields in New York City Area will, when approaching New York City Area, obtain clearance from New York Flight Service thru normal communication means. For purposes of these instructions, New York City Area is defined as a circle 50 miles in diameter centered on southern tip of Manhattan Island. Contact weather New York Area will be considered to be: 2000 feet ceiling,3 miles visibility,both day and night. When cloud conditions exist below 2000 feet,flight conditions will be considered IFR.

MILITARY AND NAVAL LANDINGS IN NEWFOUNDLAND: All military and naval aircraft landing in Newfoundland should use Harmon Field at Stephenville or Naval Operation Base at Argentia. Gander has very limited military facilities and is reserved for commercial and weather diverted military aircraft.

RESTRICTIONS ON AAF HELICOPTERS: YR-5A, R-5A, YR-5D, R-5D (excpet as indicated below*) and YR-5E helicopters are grounded and will not be flown.

*R-5D helicopters No. 43-46643 and subsequent have been modified by the contractor and may be released for flight.

ARMY FOREIGN CLEARING STATIONS: Under the authority of AAF Regulation 61-4, Army aircraft with destinations listed below or returning therefrom to the United States will clear through the stations indicated: AFRICA - Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. ALASKA - McChord Field, Wash.; Great Falls AAF, Mont.; or Boeing Field, Wash. BERMUDA - Mitchel Field, N.Y.; Morrison Field, Fla.; Washington National Airport, D.C.; or Westover Field, Mass. CANADA - Great Falls AAF, Mont.; McChord Field, Wash.; Washington National Airport, D.C.; Boeing Field, Wash.; Selfridge Field, Mich.; or Westover Field, Mass. CANAL ZONE, CENTRAL AMERICA, MEXICO, AND SOUTH AMERICA - March Field, Calif.; Kelly Field, Tex.; or Morrison Field, Fla. CARIBBEAN - Morrison Field, Fla. ENGLAND, GREENLAND, ICELAND, NOVA SCOTIA, NEWFOUNDLAND, AND NORTH IRELAND - Washington National Airport, D.C., and Westover Field, Mass. (Note: Selfridge Field also will clear for Nova Scotia and Newfoundland). HAWAII - Fairfield-Suisun AAF, Calif.

✓ ARMY AIRWAYS FACILITIES CHANGES AND ADDITIONS: In accordance with AAF Letters 100-74,100-89,100-2 & AAF Manual 100-63-1,the AAF Military Flgt Service Communications System will be implemented in the near future. This new system, which replaces the leased CAA communications system now used for CFR flight plans and associated communications, will handle AAF operational point-to-point and air-ground communications pertaining to departures, arrivals, emergency rescue, hurricane evacuation, flight advisories, clearances, transportation and cargo services, training, bomb scoring, and RON messages. The CAA will continue to handle IFR flight in accordance with statutory responsibility.

This system will be operated by nine AAF military Flight Service Communications Centers located at the following points, which will have an area of responsibility corresponding to that of two or more CAA airway traffic control centers: McChord Field, Washington; Hamilton Field, Calif.; March Field, Calif.; Lowry Field, Colo.; Ft. Worth AAF, Texas; Maxwell Field, Ala.; MacDill Field, Fla.; Olmsted Field, Pa.; and Wright Field, Ohio. Communications between Military Flight Service Communications Centers will be by teletype normally; and communication between such centers and AAF air bases will be by interphone circuits.

System will be placed in effect on a trial basis on October 1st and it is contemplated that all facilities will be available and system will go into regular operation November 1st.

When installation is completed, communication with Army aircraft will be accomplished by means of HF and VHF installations as listed below:

HF Installations

EAST ZONE: Wright Field, Ohio, Maxwell Field, Ala.; Grenier Field, N.H.; Olmsted Field, Pa.; Pope Field, N.C.; MacDill Field, Fla.;Brookley Field, Ala.

CENTRAL ZONE: Rapid City AAB, S.D.; Lowry Field, Colo; Biggs Field, Tex.; Ft. Worth AAF, Tex.; Sherman Field, Kans.; Wold Chamberlain Field, Minn.; Kelly Field, Tex.; Scott Field, Ill.

WEST ZONE: McChord Field, Wash.; Medford AAB, Ore.; Hamilton Field, Calif.; March Field, Calif.; Luke Field, Ariz.; Hill Field, Utah; Great Falls AAB, Mont.

HF air/ground radio stations will operate on a common voice frequency of 4765 kc, common CW frequencies of 4595 and 8200 kc, with East Zone HF voice on 2862 and 4845 kc, Central Zone HF voice on 2936,4630 kc,and West Zone HF voice on 2862 and 4697.5 kc. The zone voice channels will be used mainly for local training missions. Detailed outline is given in AAF Manual 100-63-1.

VHF Installations

Andrews Field, Md.; Barksdale Fld, La.; Bergstrom Fld, Tex.; Biggs Fld, Tex.; Brookley Fld, Ala.; Casper AAF, Wyo.: Chanute Field, Ill.; Clovis AAF, N.M.; Columbus AAF, Miss.; Davis-Monthan Fld, Ariz.; Dow Fld, Me.; Eglin Fld,Fla.;

Ellington Fld, Tex.; Enid AAF, Okla.; Ft. Dix AAB, N.J.; Ft. Worth AAF, Tex.; Goodfellow Fld, Tex.; Great Falls AAF, Mont.; Greater Pittsburgh Arpt, Pa.; Greenville AAB, S.C.; Grenier Fld, N.H.; Hamilton Fld, Calif.; Hill Fld, Utah; Kearney AAF, Nebr.; Kelly Fld, Tex.; Kirtland Fld, N.M.; Langley Fld, Va.; Las Vegas AAF, Nev.; Lawson Fld, Ga.; Lockbourne AAB, Ohio; Lowry Fld., Colo.; Luke Fld, Ariz.; MacDill Fld, Fla.; March Fld, Calif.; Maxwell Fld, Ala.; McChord Fld, Wash.; Medford AAF, Ore.; Memphis Mun. Arpt., Tenn.; Merced, AAF, Calif.; Mitchel Fld, N.Y.; Moody Fld, Ga.; Morrison Fld, Fla.; Olmsted Fld.; Pa.; Orlando Air Base, Fla.; Pocatello AAF, Idaho; Pope Field, N.C.; Portland AAB, Ore.; Rapid City AAB, S.D.; Robbins Field, Ga.; Rome AAF, N.Y. Roswell AAF, N.M.; Scott Field, Ill.; Sedalia AAF, Mo; Selfridge Fld, Mich.; Shaw Fld, S.C.; Smyrna AAF, Tenn.; Spokane AAF, Wash.; Tinker Field, Okla.; Tonopah AAF, Nev.; Sherman Fld, Kans., Turner Fld, Ga.; Walla Walla AAF, Wash.; Westover Fld, Mass.; Wold-Chamberlain Fld, Minn.; Wright Field, Ohio.

Each VHF air/ground station will constantly guard three frequencies: 137.88 mc AACS VHF primary, 116.10 mc AACS VHF secondary, and 140.58 mc JAN military emergency frequency, and will be capable of transmitting on any of these. These will be used in the sequence listed. Insofar as operating personnel allotments allow and the volume of air traffic dictates, facilities for VHF D/F Homing will be provided.

FLIGHT SERVICES CENTER BOUNDARIES:

McChord Field Flight Services Area: Encompasses present Seattle and Great Falls CAA Areas.

Hamilton Field Flight Services Area: Encompasses present Oakland and Salt Lake City CAA Areas.

March Field Flight Services Area: Encompasses present Los Angeles, Albuquerque and El Paso CAA Areas.

Lowry Field Flight Services Area: Encompasses present Denver, Minneapolis, Kansas City CAA Areas.

Ft. Worth Flight Services Area: Encompasses present Ft. Worth and San Antonio CAA Areas.

Maxwell Field Flight Services Area: Encompasses present Memphis, New Orleans, Atlanta CAA Areas.

MacDill Field Flight Service Area: Encompasses present Jacksonville and Miami CAA Areas.

Olmsted Field Flight Service Area: Encompasses present Washington, Pittsburgh, N. Y., and Boston CAA Areas.

Wright Field Flight Service Area: Encompasses present Detroit, Cleveland, Cincinnati, St. Louis, and Chicago CAA Areas.

STANDARD NAVY GROUND CONTROL APPROACH FREQUENCY ASSIGNMENTS: Allocations of frequencies, both HF and VHF, for Navy GCA use have been coordinated with the AAF. Universal frequencies allocated primarily for Navy GCA operational use are as follows: HF Communications - 3475 kcs., 4890 kcs., 6640 kcs; VHF communications 134.64 mcs., 142.02 mcs., 143.64 mcs. As a safety precaution, Navy GCA Units will also be prepared to control aircraft on 140.58 mcs., the Navy emergency frequency. To provide a means whereby Navy aircraft may receive assistance from Army GCA Units and vice-versa, the following agreement will govern: (a) Army GCA Units will at all times be prepared to control Navy Aircraft on 140.58 mcs. (b) Navy GCA Units will at all times be prepared to control AAF aircraft on 131.40 mcs. It is the responsibility of the pilot desiring GCA assistance to establish communication with the appropriate control tower for preliminary approach instructions. The pilot will then be instructed as to the proper frequency for contacting the GCA Unit. Navy GCA Operational Units are located as follows: Whidbey Island NAS, Wash.; Charlestown NAAS, R.I.; Oakland NAS, Calif.; Camp Kearney NAAS, Calif.; Seattle NAS, Wash.; Olathe NAS, Kans.; Oceana NAAS, Va.; Patuxent River NAS, Md.

LORAN DATA: Loran is a long range electronic navigational aid utilizing pulse techniques. It provides accurate fixes for the user within 1 per cent of his distance from the stations. Loran service is provided continuously twenty-four hours a day. Loran operates on fixed frequencies of 1750, 1850, and 1950 kilocycles. To use Loran it is required that a Loran receiver-indicator be employed and that suitable charts and tables be available to the navigator. The following is a list of Coast Guard and Canadian Loran rates presently in operation: Atlantic: 1L0, 1L2, 1L3, 1L4, 1L7, 1H1, 1H2; West Coast U.S.: 2H4, 2H5, 2H2; Aleutian Area: 1L0, 1L1, 1L2; Central and Western Pacific: 2L0, 2L1, 2L2, 2L3, 4H2, 4H3, 4H4, 4H5, 1L6, 1L7. Information regarding Loran coverage, rates, frequency, etc., throughout the world is contained in the Catalog of Loran Charts and Service Areas, Hydrographic Office Publication No. 1-L. This publication may be obtained from Hydrographic Office agents located in various cities in the United States or from the Hydrographic Office, Washington, D. C., at a cost of $0.30. Complete Loran tables are contained in Hydrographic Office Publication Series No. 221, which can be obtained from the same sources at a cost of $3.00 per volume. Loran charts may be similarly obtained. Hydrographic Office Circular No. 3 and the Hydrographic Bulletin (issued weekly) give a list of these agents mentioned above and may be obtained without charge from the Hydrographic Office or any Branch Hydrographic Office. Changes in Loran service are broadcast in Hydrolants and Hydropacs, and as local broadcasts, the stations, frequencies, and schedules being listed in the first Hydrographic Bulletin issued each month. Inquiries of an operational nature regarding Loran may be addressed to the Commandant (OAN), U.S. Coast Guard, 1300 E Street, N.W., Washington, D. C.

CIVILIAN USAGE OF MILITARY FIELDS: Army and Navy fields are open to civilian fliers only in emergency or with prior permission of the commanding officers thereof.

FOREIGN ENTRY PROCEDURES: The following procedures are necessary in order to gain entry, with intention to land, in Canada and Mexico:

CANADA: 1. All departures from the United States must be made from Airports of Entry. (See next item). 2. If landing is to be made at a designated Canadian Airport of Entry, notice should be telephoned or telegraphed to the collector of customs at the predetermined point of entry when clearing U.S. Customs. 3. If entry is planned at a field other than a customs airport, arrangements should be made with the Secretary, Customs Division, Department of National Revenue, Ottawa, at least 10 days in advance. 4. Pilots and aircraft must be properly certificated and general observance of Canadian air regulations is required. 5. The following is a list of all Canadian Customs Airports of Entry: Whitehorse, Y.T.; Vancouver, B.C.; Calgary, Alta.; Lethbridge, Alta.; Moose Jaw, Sask.; Regina, Sask.; Winnipeg, Man.; Ottawa, Ont.; (Island or Malton); Hamilton, Ont.; Windsor, Ont.; Montreal, P.Q. (Dorval); Fredericton, N.B.; St. John, N.B.

MEXICO: Applications for permits may be filed with the nearest Mexican consul who charges a fee of $4.00, or directly with the Department of Civil Aeronautics, Mexico City, Mexico, without charge. The permit will be sent directly to the Airport of Entry named in the application, unless the applicant specifically requests that it be sent to his home address. If entry is to be made from Brownsville, Tex., permission may be received from Representative of Mexican Ministry of Communication and Public Works, Department of Civil Aeronautics, Rio Grande Valley International Airport, Brownsville, Texas. All departures from the U.S. must be made from Airports of Entry. (See next item).

AIRPORTS OF ENTRY: Customs clearance into or out of the United States must be made at the following Airports of Entry:
International Arpt, Douglas, Ariz.; Nogales International Arpt, Ariz.; Lindbergh Fld, San Diego, Calif.; Meacham Fld, Key West, Fla.; Miami International Arpt, Fla.; Midet Seaplane Base, West Palm Beach, Fla.; Caribou Arpt, Me.; Presque Isle Arpt, Me.; Detroit City Arpt, Mich.; Romulus AAF, Mich.; Sault Ste. Marie, Arpt, Mich.; Williamson-Johnson Fld, Duluth, Minn.; Cut Bank Arpt, Mont.; Great Falls Arpt, Mont.; Havre City-County Arpt, Mont.; Albany Arpt, N.Y.; Buffalo Arpt, N.Y.; Malone-Dufort Arpt, N Y.; Massena Arpt, N.Y.; Niagara Falls Arpt, N.Y.; Ogdensburg Arpt, N.Y.; Rochester Arpt, N.Y.; Rouses Point Seaplane Base, N.Y.; Watertown Arpt, N.Y.; Grand Forks Arpt, N.D.; Pembina Arpt, N.D.; Cleveland Arpt, Ohio; Hinde Arpt, Sandusky, Ohio; Put-In-Bay, Ohio; Eagle Pass Arpt, Tex.; El Paso Arpt, Tex.; International Arpt, Brownsville, Texas; Austin Arpt, Swanton, Vt.; Burlington Arpt, Vt.; Bellingham Arpt, Wash.; City-County Arpt, Port Townsend, Wash.; Felts Fld, Spokane, Wash.; King County Arpt-Boeing Field, Seattle, Wash.

CUSTOMS REPORTS: In making flights TO or FROM a foreign country, civilian fliers are required to report to a customs officer. If they do not report, they are subject to a civil penalty of $500.00 for each violation, and any aircraft used in connection with any such violation is subject to seizure and forfeiture, as provided for in the customs laws. On flights from foreign territory, the first landing in the United States is required to be made at an airport of entry, unless permission to land elsewhere than at an airport of entry is granted by the Commissioner of Customs, Washington 25, D. C. Consult the nearest customs officer before making foreign flights.

U.S. CIVIL AIRCRAFT CLEARANCE FOR FOREIGN COUNTRIES: Although the CAA does not require special permission for the flight of U.S. aircraft abroad, or for the delivery of aircraft exported to foreign countries all aircraft must be registered and certificated as to airworthiness, and pilots must hold appropriate U.S. pilot certificates. The single exception to the above is: Special permission must be obtained from the Director, Aircraft and Components Service, CAA, Washington, D.C., for any flight into or through the Panama Canal Zone. In general, permission must be secured from foreign countries for the conduct of scheduled or non-scheduled operations from the U.S. Specific information may be secured from the Aviation Division, State Department. All air carriers must secure operating certificates from the CAA and their operations must be in conformance with these certificates. Although there are no Federal taxes on the exportation of aircraft from the U.S., it is mandatory that a license for such export be obtained from the State Department.

CANADIAN REGULATIONS FOR CFR FLIGHTS: (a) It is compulsory for pilots desiring to conduct a CFR flight to file a flight plan unless the flight will be made within a radius of 25 miles of the point of departure. (b) Arrival messages must be filed by pilot on all such CFR flights.

CANADIAN INSTRUMENT FLIGHT RULE FLIGHT: Pilots are cautioned to conform to the requirements of CAR 60.2 where flight is proposed to be conducted under Instrument Flight Rules from the United States into air traffic control areas designated in Canada. Failure to adhere to these regulations may result in detention of pilots concerned by Canadian Authorities.

PANAMA CANAL ZONE, FLIGHT INTO: Prior to take-off from any aerial port of embarkation of any acft flight into or thru, the 200 mi. area blanketing the Canal Zone, Commanders of Mil. Acft will notify the CG 6th Fighter Wing, Attn: Fighter Controller, by an information copy of their flight plans. With a view to safety and protection of their equip. and personnel, operators of all other acft should follow the same procedure. Responsibility for this notification of flight plans lies with the operator, but notification will normally be transmitted by the clearance authority at the point of departure.

SAN JUAN, P.R. PRE FLIGHT CLEARANCES: The Isla Grande Airport at San Juan, Puerto Rico, is a part of the U.S. Naval Air Station, San Juan. Commercial air carriers may not operate at this field without receiving specific authorization from the Chief of Naval Operations, Washington, D.C. The Commanding Officer NAS, San Juan, may grant permission for one or two isolated landings. In any case proper authority must be obtained prior to landing at San Juan. Privately owned aircraft in a ferry status must obtain permission from the commanding officer before landing at Isla Grande Arpt.

PRE FLIGHT SERVICE: Pilots desiring to file flight plans are requested to do so with any CAA Airway Communication Station by personally visiting the station or by telephone. Radio should be used for filing flight plans only as a last resort. Pilots are urged to visit communications stations to obtain authentic flight information and assistance in planning their flights. Personnel at these stations are trained to render flight planning assistance. An objective of CAA pre flight service is to encourage pilots to familiarize themselves with flight conditions prior to commencing cross country flight.

TRAFFIC CLEARANCES: In order to prevent delay to aircraft operating in contact flight rule weather conditions and yet ensure adequate separation when and if instrument flight rule weather conditions are encountered, traffic clearances to pilots filing instrument flight rule (IFR) flight plans may amend such flight plans by requiring flight in accordance with contact flight rules (CFR) for all or a portion of the flight. A traffic clearance will specify the approved altitude followed by the abbreviation "CFR". Upon receipt of such clearance, the pilot will be responsible for avoiding other aircraft while operating in CFR weather conditions and for securing an amended clearance at the specified altitude before IFR weather conditions are encountered. The pilot must remain in CFR weather conditions until the amended clearance is received. For efficient operation, the use of this procedure can be determined only by Air Traffic Control. Pilots, therefore, should not file "altitude/CFR" in any flight plan; "altitude/CFR" is to be used only in a traffic clearance issued by Air Traffic Control.

AIRPORT APPROACH ZONES AND AIRPORT TRAFFIC ZONES CFR MINIMA: Part 60 specifies that CFR traffic within Airport Traffic Zones or Airport Approach Zones must maintain 500 foot vertical and 2000 foot horizontal separation from the clouds unless given traffic clearance by the control tower or control center concerned. Even under such clearance CFR flights must remain clear of clouds. These airport traffic zones and airport approach zones are indicated on the Flight Planning Charts of the Airman's Guide, and all recently revised Coast and Geodetic Survey Aeronautical Charts. In the interest of safety CFR flights must maintain the 500 foot and 2000 foot minima specified above while in these circular charted zones. (see page VIII of this publication for air traffic control procedures and weather minima).

CARIBBEAN AREA-RADIOBEACONS FOR USE WITH ADF: The following Coast Guard Radiobeacons now operate continuously in their assigned sequence, i.e., one minute on, two minutes off, 24 hours daily:

II San Juan 296 . - - . . Lat 18-24-14 N, Long. 66-07-03 W.
I Goat Island (Jamaica) 304 . . - . Lat. 17-53-00, Long. 77-04-14 W.
I Trinidad 308 - - - . Lat 10-41-23 N, Long. 61-44-44 W.

It is requested that all ships and aircraft using these beacons submit comments to the Commander, 10th Coast Guard District, Arsenal, Marina, San Juan, P.R., as to usefulness with ADF equipment bearing accuracy obtainable, maximum usable range, ease of identification, etc.

VANCOUVER AIR TRAFFIC CONTROL AREA: Effective October 1, 1946, the Vancouver Air Traffic Control Center controls traffic conducted within the following airways: (a) Green 1 from Patricia Bay, B.C. Airport to 25 mi. W of Cranbrook, B.C. range. (b) Amber 1 from U.S.-Canadian Border to 25 mi. W of Vancouver, B.C. range. (c) Red 44 from U.S.-Canadian Border to Princeton, B.C. range. (d) Amber 4 from 25 mi. S of Dog Creek, B.C. range to Princeton, B.C. range. (e) Blue 32 from U.S.-Canadian Border to 25 mi. N of Moresby, B.C. intersection. Also the Vancouver A.T.C. Centre controls traffic conducted within a radius of 25 mi. of the following radio ranges: Vancouver, B.C., Patricia Bay, B.C.

NEW PRIVATE FLIER FREQUENCIES: Effective Jan. 1, 1947, all CAA Communications Stations will guard 122.1 mcs. and CAA operated towers will guard 122.5 mcs. in addition to those freqs. now guarded. These are the new frequencies assigned for use by the private fliers for air/ground communications.

GUARDING OF 3117.5 KCS. BY CAA AIRWAY COMMUNICATIONS STATIONS: Effective Oct. 1, 1946, all airway communications stations located at points also served by CAA airport traffic control towers discontinued continuous listening watches on 3117.5 kcs. Hereafter, communications stations at these locations will establish watches on 3117.5 kcs. upon "request" and during such hours as the associated tower is closed.

FEDERAL AIRPORT ACT HEARINGS AND PROCEDURES: All details of the Civil Aeronautics Administration's rules and regulations for use of federal money in airport construction will be open for discussion the week of October 28, 1946. Those invited to the hearings are U.S. Conference of Mayors, American Municipal Association, National Insitutute of Municipal Law Officers, Council of State Governments, and the National Association of State Aviation Officials. Others, of course, may present their views, and the CAA will welcome briefs and memorandums submitted not later than November 8, 1946. Forms are now in the CAA's field offices for preliminary project requests. These are important to the CAA not only in planning its first year's work, but also in preparing the National Airport Plan, required by the Act. Once a project is tentatively selected, formal applications must include the sponsor's complete plans and specifications for the airport in question. The sponsor's assurance agreement, required in the tentative rules and regulations, lists all the responsibilities undertaken by a municipality. The provision that the federal funds be used to pay 25% of the cost of land brings up a number of rules regarding appraisal, title guarantee, etc. Communities also are reminded that federal money may be requested to pay for projects and planning that have been initiated since the law was signed, May 13, 1946. The proposed rules and regulations, published in toto in the Federal Register, can be obtained from the Superintendent of Documents, Washington 25, D.C., for 15¢, for study prior to the public hearings in October.

OPERATION OF SEAPLANES ON THE NEW YORK STATE CANAL SYSTEM: An official complaint has been received from the State of New York, Department of Public Works, that the New York State Canal channel is being used for the taking off and landing of aircraft. This channel is very narrow and has numerous curves. The taking off and landing of aircraft on this channel, therefore, is dangerous and presents a hazard to canal traffic and small boats. All airmen are cautioned that such activities may constitute careless or reckless operation of aircraft.

AERONAUTICAL CHART AND PUBLICATION CORRECTIONS: (a) Correct Corpus Christi Sectional Aeronautical Chart, dated Aug. 6, 1946, by changing area S of Corpus Christi, and E of Kingville to a caution area instead of a danger area.

(b) The correct elevation of Key Field, Meridian, Miss. is 297 feet. This corrects "Airman's Guide", Vol. 1, No. 14.

(c) Correct T.O. 08-15-1, dated Oct. 15, 1946, by showing the call sign of Grenier Field as WYZH; Clovis AAF, New Mexico, radio range courses changed to 214, 304, 34, 124 respectively reading clockwise from the North; Wendover Fld, Utah, by showing no weather broadcasting 2200-0300, and the hours of operation of control tower as 0800-2200, other hours on 24 hr. notice; Mitchel Fld, N. Y., by deleting frequency of 126.18 mcs.; by showing the minimum instrument clearance altitude of 2000 feet from Torbay to Gander, Nfld, and 3000' from Gander to Torbay.

WEATHER REPORTING SERVICE

Weather Reporting Station	Type of Station	Effective Date
Fort Hancock, Texas	SW	Closed Oct. 14, 1946
Hereford, Texas	SW	"
Lamesa, Texas	SW	"
Orla, Texas	SW	"
Sanderson, Texas	SW	"
Texon, Texas	SW	"
Silver City, New Mex.	SW	"
Artesia, New Mex.	SW	"
Cloud Croft, New Mex.	SW	"
Deming, New Mex.	SW	"
East Vaughn, New Mex.	SW	"
Gallup, New Mex.	SW	"
Hachita, New Mex.	SW	"
Hondo, New Mex.	SW	"
Kingston, New Mex.	SW	"
Mosquero, New Mex.	SW	"
Oragrande, New Mex.	SW	"
Santa Rosa, New Mex.	SW	"
White City, New Mex.	SW	"
Augustine, New Mex.	SW	"
Correo, New Mex.	SW	"
Corono, New Mex.	SW	"
Romulus (Detroit), Mich. (Romulus Army Air Service)	Hourly	Closed Aug. 15, 1946

Midland, Texas will furnish supplementary weather reports in lieu of hourly reports in the near future.

TELETYPE NOTAMS: Throughout the year climatic conditions (snow storms, floods, etc.) render many fields temporarily unusable or unsafe. In addition, there are intermittent maintenance operations in progress on many fields. Radio facilities suffer temporary power failures or course misalignments, and lighting facilities are temporarily inoperative. Because these temporary conditions cannot be given immediate coverage in the "Airman's Guide", full congizance must be taken of Teletype Notam service which gives the desired coverage on any facility or field at which teletype transmitting stations are based. Cross-country pilots, accordingly, should consult these Teletype Notams for latest available data on air navigation aids. These teletype notams are posted in CAA Communications Stations and in all Army Air Field & Naval Air Station Operations Offices having teletype drops.

N.B.
AIRPORT TRAFFIC CONTROL PROCEDURES: (a) Planes with two-way radio should establish communication with control tower when 15 miles from the airport of destination and before taxiing or taking off.

(b) Planes without receivers, when approaching tower-controlled fields and before taxiing and taking off, should be on the alert for and be guided by light gun signals. (See AAF Regulation 100-4, dated March 4, 1944, and CAR Digest or Manual 60)

(c) Flashing tetrahedron lights, as well as the daylight operation of rotating beacons coupled with flashing red code lights, indicate suspension of CFR traffic.

AIR NAVIGATION AID DATA

All radio facilities except tower are CAA facilities unless otherwise cited. All towers are listed by operating agency. All range bearings are magnetic in-bearings. All fan markers and station location markers operate on 75 mcs. All radio facilities operate continuously unless otherwise specified.

LEGEND

** - New or revised airport, danger area, or miscellaneous data to be inscribed on charts or added to records.

★ - New or revised radio data to be inscribed on charts or added to records.

ALABAMA

ANNISTON AAF-Temp inactive-no facs. (See Special Notice re use)
BIRMINGHAM-RADIO: Range flight-checked Oct. 24, courses correctly aligned.
BIRMINGHAM ARPT-Closed to civil. acft not equipped with operating rcvr. No landings on sodded areas. Ctn ngts or under IFR, plant S of fld has long taxi and parking strips resembling rnwys. No svcg mil acft 2200 to 0600. No maintenance. (10-9)
BROOKLEY AAF (MOBILE)-Soft-use rnwys, taxi strips only. No 91 oct. (10-4)
CAMP SIBERT AAF (ATTALLA)-CLOSED TO ALL ACFT.
CENTRE ARPT-N/S strip not mntnd. E/W strip rough. Fone lines E end. (4-9)
CHASTAIN'S ARPT (PRICHARD)-E/W strip under const, mrkd. (7-22)
COLUMBIANA ARPT-NE/SW strip unsafe. High grass S 500' N/S strip. (4-9)
CRAIG FLD (SELMA)-Twr obst lgts inop. No maintenance or RON facs. Bndry and N/S rnwy lgts inop. (9-9)
DANNELLY FLD (MONTGOMERY)-NE taxi strip closed (parked acft). (8-12)
GREENVILLE ARPT-SITE 24, NEW ORLEANS-ATLANTA-E 400' E-W rnwy unsafe (high grass) (9-2)
GUNTER FIELD (MONTGOMERY)-RADIO: Army twr temp suspended. (5-16)
. FLD: Temp inactive -no facs. (See Special Notice re use) Use rnwys only. Sod areas adj rnwys and taxi strips soft.
HARTSELLE ARPT-N 900' W side avail. emerg landings, bal fld unusable. (3-30)
HUNTSVILLE-Bombing and mortar firing is being conducted within the following described area: beginning at the Tennessee River Channel at lat 34-34-30, long. 86-44; due N to Southern RR; easterly along RR to long. 86-42; due S to said river; SW along river to point of beginning.
MAXWELL FLD (MONTGOMERY)-At ngt or under IFR conditions large depot 1 mi S looks like arpt and lgts give impression of parallel rnwys. (10-17)

ALABAMA-Continued

MUSCLE SHOALS ARPT-Fuel avail. civil. acft only. (8-1)
NAPIER FLD (DOTHAN)-Avail. civil. acft in emerg only. (8-6)
OZARK AAF-Temp inactive-no facs. (See Special Notice re use).
PRYOR FLD (DECATUR)-Mun. opers and acft sto depot. No collect calls or telegrams accepted by sto depot. (6-22)
TUSCALOOSA ARPT, SITE 59, FV-AG-Rnwys not lgtd although N bndry and parallel obst lgts may look like rnwy lgts. (9-16)
TUSKEGEE AAF-Temp inactive-no facs. (See special Notice re use). N/S, E/W rnwys closed at N-S/E-W intersections; open for taxiing and emerg. only. (7-18)
TUSKEGEE INSTITUTE FLD NO. 1 (TUSKEGEE)-Soft in spots, mrkd. (1-21)

ARIZONA

** ANDERSON MESA, BEACON SITE 44, LA-AQ-Site consisting of 24" rot. bcn. and course lgts atop 51' twr, flash. char "4" (. . . .) comm 36.2 mi SE Flagstaff, lat. 34-56-50, long. 111-17-50. Elev. 7100. (10-18)
** AQUARIUS CLIFFS, BEACON SITE 32, LA-AQ-Bcn sit consisting of 24" rot. bcn. and course lgts, atop 51' twr, flash. char "2" (. . -) comm 68.4 mi SSE Kingman, lat 34-47-25, long. 113-25-00. Elev. 5612' (10-18)
ASHFORK INT, SITE 36A, LA-AQ-Rough. (9-18)
** CLEMENCEAU ARPT (COTTONWOOD)-Bcn Site 40 LA-AQ, 36" double end bcn, exhibiting 12 clear fpm lctd on fld. (10-19). See page 53.
COCHISE INT, SITE T-3, PH-EO-Rough. Tall grass in spots on fld. Ctn when landing and taxiing. (9-20)
** CONNELL MOUNTAIN BEACON SITE 34, LA-AQ-Site consisting of 24" rot. bcn and course lgts flash. char "4" (. . . .) comm 49 mi NNW Prescott, lat 34-45-40, long. 112-57-30. Elev 6425'. (10-16)
COOLIDGE ARPT-Closed-emerg use only.
DATELAN AAF-Temp inactive-no facs. (See Special Notice re use)
DAVIS-MONTHAN FLD (TUCSON)-E fld closed; acft parked on rnwys. Blinding ceilometer projector W end fld half way between ends of NW/SE, E/W rnwys. (9-29)
DEEP LAKE INT, SITE 54A, LA-AQ-E end E/W, N end N/S strips rough with soft areas due wind erosion, soft sand, mrkd. Equip on fld days. (10-16)
DOUGLAS AAF-Temp inactive-no facs. (See Special Notice re use)
ECHEVERRIA FLD (WICKENBURG)-Use rnwys only (parked acft).
ERNEST A. LOVE ARPT (PRESCOTT)-Use wind tee SW of apron. (9-20)
FLACON FLD (MESA)-Closed to trans acft-no facs. (9-19)
FLY FLD (YUMA)-800' left traffic pattern all rnwys. Avoid local traffic days. Parking rstd to W side of fld. (10-16)
FREDONIA ARPT-High weeds, cattle on strips. (9-3)
GILA BEND AAF-Tetrahedron inop. (8-26)
HOLBROOK MUN ARPT (HOLBROOK)-CLOSED (rough). (6-13)
INTERNATIONAL ARPT (DOUGLAS)-Temp closed (const(. (6-17)
KINGMAN ARPT-No inst flights cleared to Kingman. No obst lgts atop Haulpai Mtn. (8500' MSL) 11 mi S. Rnwy lgts Rnwy 17-35 inop. (7-12)
LITCHFIELD PARK NAF-No landings permitted later than one half hr before sunset without prior approval from CO. (9-19)
LUKE FIELD (PHOENIX)-Traffic direction indicator on second hangar from N. (10-18)
MARANA AAF-CLOSED (9-9)
NOGALES INTERNATIONAL ARPT (NOGALES)-Use only NE/SW paved rnwy. N/S turf strip and paved taxiways. Bal fld soft and rough due to heavy rains and erosion. (10-11)
PARADISE ARPT (GLENDALE)-Const. (6-3)
PHOENIX-Inst. train. on Phoenix Range between 5500' and 9500'.
RYAN FLD (TUCSON)-Use rnwys only. bal fld soft in wet weather, parked acft. Washes N edge. (8-8)
** SELIGMAN INT, SITE 32, LA-AQ-All facs discont. Fld no longer maintained. (10-18)
SKY HARBOR ARPT (PHOENIX)-Minor const in area E of N/S and S of E/W rnwys. (10-23)

ARIZONA-Continued

THUNDERBIRD ARPT NO. 2(PHOENIX)-Use strips only (parked acft).
**TUCSON ARPT-Bcn, bndry, rnwy, ctc, obst lgts. See page 85. Trans acft desiring to use fld after 2100 will give 2 hrs advance notice in order that lgts may be turned on. Use tetrahedron. (10-21)
WILLIAMS FLD (CHANDLER)-Use rnwys only.
WINONA INT, SITE 43A, LA-AQ-All facs discont. Fld no longer maintained.
WINSLOW ARPT-E end E/W taxi strip beyond first tie-in closed. (7-27)
**YUMA ARPT-Name changed to Fly Fld. Open to civil acft. Bndry lgts avail by prior req or in emerg. (10-16) See page 84.

ARKANSAS

ADAMS FLD (LITTLE ROCK)-Use rnwys only-shoulders soft. Equip. on fld.(8-7)
EL DORADO-RADIO: VHF range will be comm soon at lat 33-17-00, long.92-46-00 Freq. 109.1 mcs, ident "LD" (. - . . - . .) Visual courses: 45°,225°; Aural courses 135°, 315°, courses mag and towards sta. Mag. var: 7°E. Stn class: VARW. (8-14)
EL DORADO ARPT-GOODWIN FLD (EL DORADO)-Lgts avail. emerg only. (9-17).
FORT SMITH ARPT-Acft over 28,000 lbs use in emerg only. All rnwys being resurfaced until approx Nov 3. Ctn as only 1 length-wide half of each rnwy will be avail. while other half is being sealed. Unusable half flagged and lgtd. Sealed half very slick and gummy for 24 hrs after sealing.(10-24
GRIDER FLD (PINE BLUFF)-Use strips only (parked acft). Closed ngts. (6-7)
HELENA-Two unlgtd 405' twrs crossing Miss. River at S edge City. (7-20)
JONESBORO ARPT-Use rnwys only. (8-16).
LUXORA INT, SITE 39, NO-LS-30' unlgtd pole line being erected S end N/S rnwy.
McGEHEE ARPT-Cattle on fld intmtly. (9-6).
McLAUGHLIN ARPT (HOT SPRINGS)-RADIO: Mobile Army twr transmits on 4420 kcs and receives on 4495 kcs only. (9-11). FLD: Use ctn when landing and taking off. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23).
THOMPSON-ROBBINS FLD (HELENA)-Use rnwys only (parked acft).
WALNUT RIDGE ARPT-Acft parked all areas fld and ramp. Use rnwys only. Equip. on fld. Closed 1730 to 0800. (4-4).

CALIFORNIA

ALAMEDA NAS-Maintain high approach on Rnwys 26L and 22. Heavy acft parked these areas. 175' unlgtd cranes 2000' from NE corner fld-ctn ngts and during low visibility.Lgtd dredge and pipe extending to shore operating 1/2 mi S of lagoon in seadrome. Equip adj to and on rnwys. Fld on positive control. (8-16).
**AMADOR COUNTY ARPT (JACKSON)-Correct location: Lat 38-22-45, long120-47-30. (9-21) See page 48.
AMERICAN LEGION ARPT (SALINAS)-Obsts on E/W strip. (3-16).
ARCATA ARPT-Closed to acft without 2-way radio unless prior approval rcvd frm Stn Director. All incoming acft required to file flight plan and ctc twr as soon as possible because of exten exper flying. Use surfaced areas only.
BAKERSFIELD-RADIO: 116.1 mc transmitter temp inop. (10-10).
BELMONT ARPT-Avail at pilots risk (equip). NW end Rnwy 28 closed. (4-23).
BRAWLEY ARPT-Holes in extreme NW corner fld. (3-20)..
BROWN FLD NAAS (OTAY)-Use in emerg only (caretaker status-no facs).
BURBANK-RADIO: Intermittent interference from Navy transmissions on adjacent channel of 245 kcs. (5-23).
BURBANK-LOCKHEED AIR TERMINAL-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STA. Right traffic use Rnwys 7, 15; left traffic use Rnwys 25, 33. Approach lgts Rnwy 7 changed to red. Lgts on approach to Rnwy 7 partially obstructed by trees. 2-way radio required all acft. (8-2).
CAL AERO ARPT (ONTARIO)-Use rnwys only (parked acft).

CALIFORNIA-Continued

CANNON FLD (FRESNO)-No take-offs to SSE. Traffic pattern to the E.(7-24).
★CASTLE FLD (MERCED)-RADIO: Army twr deccom: (10-24). FLD: No lgts.
** (10-23) See page 52. CLOSED TO ALL ARMY ACFT EXCEPT ON OFF. BUS OR IN EMERG. NO FACS.
CATES, BEACON SITE 235 MI. BLINKER, SF-SA-Beacon inop. (2-17).
CLEAR LAKE SEAPLANE BASE-Avail. in emerg only. (6-11).
**CONEJO VALLEY ARPT (CAMARILLO)-New fld. Lat 34-10-30, long. 118-52-30.(8-14) See page 137.
CORCORAN-135' unlgtd twr being const adj Santa Fe Railroad, downtown Corcoran Upon completion will be 148' high and lgtd.(8-24)
COTATI OLF-Crash truck avail. at Santa Rosa NAAS upon req. (6-11).
CROWS LANDING NAAS-Use in emerg only (caretaker status-no facs).
DEL MAR ARPT-Right traffic at 600' with prevailing westerly winds.(10-10)
DESERT CENTER INT, SITE 17, LA-PH-E/W strip emerg use only. (9-19).
**DORMAN ARPT (SANTA MARIA)-New fld. Lat 35-00-30, long. 120-26-45.(8-16) See page 49.
EL CENTRO NAS-Lgts E/W rnwy inop. Avail 0700 to 1800.Other hrs on 30 min prior notice. Service rnwy will be lgtd for emerg use. (6-24).
**EL RANCHO AIRPARK (CARPENTERIA)-New fld. Lat 34-25-00, long 119-32-45.(8-15) See page 49. Unsuitable for heavy acft. (8-15).
EL TORO MCAS-Fld carrier landing practice Rnwy 25L. Trans acft use Rnwy 25R when practice in progress. R'wy tests. Fld on positive control. (5-7).
FAIRFIELD-SUISUN AAF (FAIRFIELD)-RADIO: Army range unreliable, use for homing only. (9-30). FLD: First 1000' Rnwy 25, new Rnwy 21, closed.(8-22)
**FRANKLIN ARPT (STOCKTON)-Will hereafter be carried under Franklin. See page 48.
GARY FLD (BLYTHE)-Use rnwys only (parked acft).
GRAND CENTRAL ARPT (GLENDALE)-CLOSED TO ALL ACFT IN EXCESS OF 35,000 LBS. Parking area pitted, mrkd. W end Rnwy 12-30 being shortened 1000'.(6-1)
HAMILTON FLD (SAN RAFAEL)-Exten to Rnwy 12 closed except in emerg. (10-18).
HAMMER FLD (FRESNO)-Temp inactive-no facs. (See Special Notice re use).
HAWTHORNE ARPT-NORTHROP FLD (HAWTHORNE)-CLOSED EXCEPT ON OFF. BUS. Use Los Angeles Arpt.
HOBERG ARPT (LOWER LAKE)-Take off to SSE-land to NNW. (7-11).
**HOLLISTER ARPT-Bcn,24" rot, range, obst, rnwy ctc lgts.(9-14) See page 48.
HUMBOLT COUNTY ARPT (EUREKA)-Closed to trans acft (const). (7-6)
INYOKERN NAF-HARVEY FLD (INYOKERN)-Use in emerg only (caretaker status-no facs). (8-14)
KERN COUNTY ARPT (BAKERSFIELD)-Unlgtd 92' pwr line 1/2 mi N of bndry.(7-3)
**KINGSBURY ARPT (STOCKTON)-Will hereafter be carried under Lodi.See page 48.
LINDBERGH FLD (SAN DIEGO)-Army temp inactive-civil. facs. Acft departing for or arriving from Mexico land at Lindbergh Fld for customs clearance. Closed to acft without 2-way radio unless prior approval rcvd from Arpt. Manager. 30' crane SW end Rnwy 31. (8-21).
LIVERMORE NAS-Avail. emerg use only. (10-1).
LIVERMORE OLF-Obsts in SW corner fld. (2-4).
LOCKHEED AIR TERMINAL-See Burbank.
LONG BEACH ARPT-RADIO: AACS, ground to air stn will be discont soon. (9-18) FLD: Obst lgts atop 165' twr Radio Stn KVOE 15 mi ESE (107°) true inop. No 91 oct mil acft. Ltd svcg. No maintenance. (9-30)
LOS ALAMITOS NAAS-Closed 1730 to 0800 except in emerg. Rnwy 22L closed.
LOS ANGELES-SPECIAL NOTICE-All acft requested to avoid Hollywood Bowl area from 2000 to 2300 daily. (7-26).
LOS ANGELES-RADIO: VHF range will be comm soon at lat 33-56-35, long 118-25-49. Freq 109.1 mcs, ident "LA" (. - . . . -) Visual courses

165°,345°. Bear. and dist, stn to Los Angeles Arpt: 91°, 2 mi. Mag var 16°E. Stn class will be: VARW. (9-10) This corrects previous issues of "Airgi".

LOS ANGELES ARPT-MINES FLD (LOS ANGELES)-Unlgtd oil derricks on approach to Rnwy 34. Rot. bcn unlgtd days. E/W paved strips S side fld avail. taxiing only. N side fld under const. Equip. on fld, N edge Rnwy 7L-25R, N side fld adj Rnwy 4-22, and W side N/S rnwy. All landings, take-offs and taxiing rstd to paved areas. Rnwys 11-29, 4-22 closed. Army temp inactive cittl. facs. Trans mil acft use Van Nuys Metropolitan Arpt. Obst lgts atop Army twr SW corner fld inop. Rnwy, taxiing lgts R_{n}wy 4-22 inop.

LOS ANGELES-LONG BEACH HARBOR EMERGENCY SEAPLANE LANDING AREA-May not be avail. on short notice due to congestion in anchorage area. Two hrs advance notice should be given if possible. (7-1).

**MACHADO ARPT (SANTA MARIA)-New fld. Lat 34-59-00, long 120-25-30. (8-15) See page 49. Use E/W rnwy only-soft sand. (8-15).

★MARCH FIELD (RIVERSIDE)-RADIO: Army (C&A type) ILS inop (relctn) (5-21) Army VHF/DF stn operating 0730-1630 Mon. thru Fri. Gds 139.32 and 138.42mc (10-25). FLD: Rnwy 7-25 closed; to be used only on permission from twr.

MATHER FLD (SACRAMENTO)-RADIO: Excessive interference with Donner Summit Radio. Army ILS temp inop. (10-22). FLD: Use rnwys only-mat unserviceable

McCLELLAN FLD (SACRAMENTO)-Rnwy 4-22 closed (parked acft). Equip. and parked acft adj all rnwys and taxiways. Shoulders, unsurfaced areas unsafe.

MERCED MUN. ARPT-Rnwy 30 avail., bal rnwys, taxi strips closed. Equip. on Rnwy 30- will be removed for scheduled traffic. (10-16).

MINTER FLD (BAKERSFIELD)-Temp inactive-no facs. (See Special Notice re use).

MIRAMAR MCAS (SAN DIEGO)-Rnwy 10-28 under const. Rnwy 6-24 avail. Fld on positive control. All acft in San Diego area use ctn while approaching Miramar MCAS. (3-19).

MOFFETT NAS-LTA (MOUNTAIN VIEW)-Equip, trenches adj NW/SE rnwy. Ctn landing, taxiing, taking-off. Equip on fld. Fld on positive control. Multi-engine acft above JRB class use Rnwy 14L-32R only, except in emerg. (7-23)

MOJAVE NAS-Equip on Rnwy 25. Fld on positive control. (8-18).

MUROC AAF-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN. Ltd within danger area. 50' equip near W end Rnwy 6-24. No 91 oct. No facs 1900 to 0700 or Suns. (5-16)

NAPA SKY RANCH APRT (NAPA)-Under const. (7-10).

NEEDLES-RADIO: 116.1 mc transmitter and receiver temp inop. (9-1)

NEWHALL-RADIO: Oct 7, range and voice fac shut down for conversion to class SBMRL-VDT fac.

**NEW JERUSALEM ARPT (STOCKTON)-Will hereafter be carried under Tracy. See page 48.

OAKLAND-RADIO: 116.1 mc transmitter and receiver temp inop. (9-13).

OAKLAND ARPT-Naval acft avoid fld except on off. bus. Closed to civil. acft except on authority from Arpt Supt. Rock surface area between E and E taxiway and Rnwy 27R avail. lgt acft. Take-off from center of area, adhere to instructions issued by twr. Taxiway leading from R_{n}wy 33 to ramp at Navy Terminal closed. Equipe on grass area W of Rnwy 24 ngts. Area under const, mrkd. No gas or maintenance facs avail 1800 to 0800 except in emerg. Ltd gas, maintenance facs 0800 to 1800. No Army opers or svcg avail 2300 to 0700. Army facs to be discont in near future. Rnwy 6-24 closed. (9-26).

O'CONNELL BROTHERS ARPT (BRAWLEY)-E/W strip being extended to 2400'. (7-21).

ORLEANS FOREST FLD (ORLEANS)-Fence across N end of fld. (8-14).

OROVILLE ARPT-B-2 port. lgts inop. (7-26)

**PACIFIC AIRMOTIVE ARPT (SAN JOSE)-Name changed to San Jose Arpt. Lat 37-20, long. 121-50. No lgts. (9-6) See page 49.

★PASO ROBLES-RADIO: Oct 24, VHF range comm and flgt-checked at lat 35-40-35, long 120-39-30. See page 49.

CALIFORNIA-Continued.

**PLACERVILLE ARPT-Lat 38-42-45, long. 120-46-45. (9-21) See page 48. Avail emerg only. Strip rutted-not maintained. (9-21).

**POINT LOMA-Four poles, 500' above sea level, erected 2 mi WSW of San Diego NAS, obst lgtd. (10-9).

RAMONA ARPT-Hump in center of strip. Acft at one end of strip cannot see acft at other end. (7-24).

RYAN FLD (HEMET)-N side matted area rough. (5-2).

SACRAMENTO-RADIO: 116.1 mc transmitter and receiver temp inop. Courses aligned by ground check only. (10-23).

SACRAMENTO ARPT-Acrobatics, low flying, days from flight strip 1000' W of Sacramento Arpt. NW/SE rnwy avail. days. Use rnwys, taxi strips only-shoulders soft. Unsafe small acft-rough. (9-16).

★SALINAS-RADIO: Oct 29 range ident changed to "SB" These data rvcd too late for inclusion on "Flight Planning Charts", in "AMRA", and for (R) symbol.

**SALINAS ARPT-Bcn, 24" rot, rnwy ctc, obst lgts. Lgts operate on req. (9-16) See page 48.

SAN BERNARDINO CO. ARPT (DAGGETT)-Obst lgts atop 50' poles along NR 1000' from end Rnwy 3 inop. Closed to civil. acft except in emerg. (7-2)

**SAN DIEGO NAS-Four poles, 500' above sea level erected 2 mi WSW, on Point Loma obst lgtd. (10-9). Traffic circle oval in shape with left turns at 800'. Traffic pattern may be entered at any point at any angle not greater than 45°. Landing will not be made without passing thru Point Love (White Pyramid Buoy) unless directed by twr. Point Love (White Pyramid Buoy) is lctd on traffic pattern 1-1/2 mi S of Hotel Del Coronado. Acft crossing air traffic lanes at North Island must be above 1500'. Acft will not fly over Coronado or Amphibious Train. Base at an alt of less than 1500'. Multi-engine acft land on heavy duty rnwys, single-engine acft on asphalt mat. (9-26).

SAN FRANCISCO ARPT-Two lines unmrkd white spar buoys 8' above water moored in NW/SE direction along edges of shipping channel adj to easterly side of Seaplane Area and extend SE therefrom. Anchored vessels in shipping channel between lines of buoys. Vessels unmrkd and will be lgtd only as required. Avoid rnwy, taxiway shoulders. Turf area closed, unmrkd hazards. Use rnwys, taxiways. Rnwy 14-32 closed. (9-30).

SAN FRANCISCO BAY-Rnwy marker lgts and buoys in seaplane landing area N of San Francisco-Oakland Bay bridge between Treasure Island and the mainland have been temp removed. (2-6)

SAN MATEO ARPT-Const. Avail lgt acft only. (4-29).

SAN NICOLAS ISLAND NAAS-Use in emerg only (caretaker status-no facs).

SANTA BARBARA-RADIO: VHF range will be comm soon at lat 34-25-40, long. 119-52-26. Freq. 108.3 mcs. Idnt. "OY". Visual courses: 96°, 276°; aural courses: 6°, 186°. (10-12).

SANTA BARBARA ARPT-RADIO: About Nov 1, the airway communication stn and arpt traffic control twr will be integrated into a single fac. Control of air traffic within the arpt control zone will be during daylgt hrs, during hrs of darkness advisory service will be furnished acft equipped with two-way radio. (10-12).

SANTA MARIA AAF-Stay clear rnwy, taxiway sides. E/W rnwy closed. Temp inactive-no facs. (See Special Notice re use).

SANTA MONICA ARPT-CLOVER FLD (SANTA MONICA)-Avail trans acft with 2-way radio. Closed ngts and to all student pilots. (8-10)

SANTA ROSA NAAS-Equip. along rnwys. E/W rnwy closed. (6-11).

SHERMAN FLD (WALNUT CREEK)-Surplus Acft Sales Center-parked acft.

SILVER LAKE INT, SITE 18, LA-8L-E quarter fld rough. (10-9).

STOCKTON FLD-Rnwy 4-22 closed. At ngt or under IFR large dspot 6-1/2 mi S looks like arpt, lgts resemble parallel rnwys. Army temp inactive-civil. facs. Equip. on fld. (10-15).

SUMMER HOME ARPT (MANTECA)-Irrigation culvert being installed across middle of strip. (7-22).

SWEETWATER LANDING STRIP-Arrangements for using this fld made thru Opers Officer NAAS Brown Fld. No communications at landing strip. (5-13).

TERMINAL ISLAND NAAS (SAN PEDRO)-Trans acft not cleared to fld after sunset.

**TORRANCE COMMUNITY ARPT (LOS ANGELES)-New fld. lat 33-52-30, long. 118-20-45. (8-7) See page 137.

**TRACY ARPT NO. 5 (STOCKTON)-Will hereafter be carried under Tracy. (10-11). See page 49.

TRONA-RADIO: Receiving watches, voice fac and teletype service operating from 0800 to 2400.

**TRONA INT, SITE 13 RV-ND-Name changed to Trona Arpt, Site 13, RV-ND. (10-15) See page 52.

TULARE LAKE SEAPLANE BASE-CLOSED (water level 2'). (7-17).

**VALLEY ARPT (SILVER CLIFF)-New fld. lat 38-07-45, long. 105-26-00. (7-3) See page 57.

VAN NUYS METROPOLITAN ARPT-Closed-emerg use only.

VENTURA CO. ARPT (OXNARD)-Bcn, bndry, obst lgts inop. Flare pots avail ngts, in emerg or by prior arrangement. (5-7).

VERNALIS FLD-CLOSED (equip, obsts on rnwys, aprons). (8-15)

**VICTORVILLE-Large danger area E has been revised as follows: beginning at lat 34-46-30, long 116-27-40; thence SE to lat 34-26, long. 116-13; S to lat 34-13; W to long 116-18; NW to lat 34-25, long 117-04-50; NE to lat 34-42-20, long. 116-47; thence counterclockwise around the arc of a circle, with a 10-mi radius centered on lat 34-51-10, long 116-48 (Daggett Municipal Arpt) to lat 34-46-30, long 116-39; E to point of beginning.

VICTORVILLE AAF-Use Rnwys 16L-34R, 7R-25L only. (7-3)

VULTEE ARPT (DOWNEY)-Rnwys avail. days only when on off, bus. (9-16).

CANADA

ALBERTA

**SUFFIELD, ALT-A prohibited flying area to a height of 10,000' has been estab within the following described area: enclosed by a line drawn from lat 50-13, long 111-09 to lat 50-42, long 111-09; to lat 50-42, long 110-17; to lat 50-37, long 110-17 following the W bank of the Saskatchewan River to lat 50-26, long 110-24; to lat 50-13, long 110-35; to point of beginning.

BRITISH COLUMBIA

★DOG CREEK-RADIO: Range now guards 3105, 3117.5, 6210. (9-15)

★FORT ST. JOHN-RADIO: Range courses realigned as follows: 133-N-207-A-281-N-016-A. (9-15).

★PRINCE GEORGE-RADIO: Range now guards 3105, 3117.5, 4495, 6210. (9-15)

★SANDSPIT-RADIO: H fac comm Sept 15. Freq 242 kcs., ident CJH. Class: HW.

★TOFINO-RADIO: Range now guards 3105, 4495, 6210. (9-15).

LABORADO

★GOOSE-RADIO: Weather bdcast 10 & 40: Seven Islands, Goose. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. HF Stn comm Sept. 15. Call letters CYC. Freqs 3285, 6577, 8554, 11319 kcs. Guards 3285, 6577, 8554, 11319. (9-15)

NEW BRUNSWICK

★BLISSVILLE-RADIO: Weather bdcast 10 & 40: Millinocket, Blissville, Moncton Pennfield Ridge. Stns Montreal and eastward will bdcast the weather in UCO (plain) on req. (9-15).

★MONCTON-RADIO: Weather bdcast 13 & 43: Blissville, Moncton, Dartmouth, Charlottetown. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

★PENNFIELD RIDGE-RADIO: Weather bdcast 13 & 43: Blissville, Pennfield Ridge, Greenwood. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

NEW BRUNSWICK-Continued.

NORTHWEST TERRITORY

★FORT SIMPSON-RADIO: Range courses realigned as follows: 109-N-209-A-289-N-029-A. Now guards 3105, 4495, 6210, 0730-1800. (9-15).

★NORMAN WELLS-RADIO: Range now guards 3105, 4495, 6210, 0730-1800. (9-15).

NOVA SCOTIA

★DARTMOUTH-RADIO: Weather bdcast 10 & 40: Yarmouth, Greenwood, Moncton, Dartmouth, Copper Lake. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

★GREENWOOD-RADIO: Weather bdcast 13 & 43; Blissville, Greenwood, Dartmouth, Yarmouth. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

★SYDNEY-RADIO: Weather bdcast 10 & 40: Sydney, St. Andrews, Copper Lake, Charlottetown. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

★YARMOUTH-RADIO: Weather bdcast 13 & 43: Greenwood, Yarmouth, Dartmouth, Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req.

ONTARIO

★OTTAWA ARPT-RADIO: Twr now guards 3105, 3117.5, 6210. (9-15)

★STIRLING ARPT (TRENTON)-RADIO: Twr now guards 3105, 4495, 6210. (9-15)

★WINDSOR ARPT-RADIO: Twr now guards 3105, 3117.5, 6210. (9-15).

★WINDSOR-RADIO: Range now guards 3105, 3117.5, 4495, 6210. (9-15)

PRINCE EDWARD ISLAND

★CHARLOTTETOWN-RADIO: Weather bdcast 10 & 40; Moncton, Charlottetown, Sydney. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

PROVINCE OF QUEBEC

★SEVEN ISLANDS-RADIO: Weather bdcast 13 & 43: Mont Joli, Seven Islands, Goose. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

★MEGANTIC-RADIO: Weather bdcast 13 & 43: Montreal, Megantic, Millinocket. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req.

★MONT JOLI-RADIO: Weather bdcast 10 & 40: Quebec, Mont Joli, Seven Islands. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req.

★MONTREAL-RADIO: Range now guards 3105, 3117.5, 6210. Weather bdcast 10 & 40; Ottawa, Montreal, Megantic, Quebec. Stns Montreal and eastward will bdcast the weather in UCO (plain) on Req. (9-15).

★QUEBEC-RADIO: Range now guards 3105, 3117.5, 6210. Weather bdcast 13 & 43: Montreal, Quebec, Mont Joli. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15).

SASKATCHEWAN

★NORTH BATTLEFORD-RADIO: Weather bdcast 10 & 40: North Battleford, Saskatoon, Vermilion, Prince Albert. (9-15).

★SASKATOON-RADIO: Weather bdcast 13 & 43: North Battleford, Saskatoon, Dafoe, Regina, Prince Albert. (9-15).

YUKON TERRITORY

★AISHIHIK-RADIO: Range now guards 1674, 2946(N), 3105, 3117.5, 4495, 4660, 5037.5 (D), 6210. Weather bdcast; 10 & 40; Fairbanks, Northway, Snag, Aishihik, Whitehorse. (9-15).

★SNAG-RADIO: Range now guards 2946 (N), 3105, 3117.5, 4495, 5037.5(D), 6210. (9-15)

★WHITEHORSE-RADIO: Range now guards 1674, 2946, 3082.5, 3105, 4495, 5037.5, 5672.5, 6210. (9-15).

COLORADO

ALAMOSA ARPT-CLOSED (rnwys under const, fld lgts and bcn inop). (9-30)
BUCKLEY FLD (DENVER)-Temp inactive-no facs. (See Special Notice re use).
FORT COLLINS ARPT, SITE 5, DV-LR-30' unlgtd pwr line being const 200' S of N/S rnwy. (9-29)
GRANBY ARPT-Otn from Nov. until April-snow. (10-17)
LA JUNTA AAF-Temp inactive-no facs. (See Special Notice re use).
LOWRY FLD (DENVER)-RADIO: AACS, ground to air stn temp suspended. (8-19) FLD: Ltd parking and quarters. (9-28)
PIKE VALLEY ARPT (COLORADO SPRINGS)-E/W rnwy avail. between markers only. New N/S rnwy being const W of present N/S rnwy. All rnwys being widened to 300'. Heavy const equip. on fld days. Use rnwys only. (7-5)
PUEBLO-Demolition being conducted within the following described area: bounded on the N by lat 38-17-28; S by lat 38-16-19; W by long. 104-18-38, E by long. 104-17-40.
PUEBLO ARPT-Rot. bcn atop hangar when lgtd indicates fld closed except to scheduled air-carrier acft and shall be lgtd only when air-carriers are approaching fld or taking off. Capt of air-carrier acft shall report his arvl time not less than five minutes before approaching fld. Air-carriers taxi on oiled rnwys only. (9-13).
PUEBLO AAB-Temp inactive-no facs. (See Special Notice re use).
RIFLE ARPT-Strips under const. In emerg use the extreme N side of the E/W strip. Grade stakes on strip. (9-11)
ROYAL GORGE ARPT (CANNON CITY)-Do not land to the S (telephone lines). (6-11)
RUSTON FLD (DENVER)-Const. Strips soft during wet weather. (9-20)
RUTLEDGE FLD (DU PONT)-Surplus Acft Sales Center-parked acft.
SKY RANCH ARPT (DENVER)-RADIO: Municipal twr temp inop. (4-1). FLD: Right traffic Rnwys 26,30,36; left traffic Rnwys 8,12,18. Traffic controlled by manually operated tetrahedron. Avail. CFR oper days only. (3-27)
STAPLETON AIRFLD-DENVER ARPT (DENVER)-Ltd svcg facs. (5-25)
TRINIDAD ARPT-Avail. lgt acft only. Hangar being constructed N end fld adj center of fence line. Equip. on fld. (7-18)
WALKER FLD (GRAND JUNCTION)-RADIO: CAA ILS loclzr ident temp inop. (9-14)

CONNECTICUT

BRAINARD FLD (HARTFORD)-Equip. on fld intmtly. Turf closed to heavy acft-soft. 300' bldg under const 1-1/2 mi NW of fld bndry, closer to NW leg Hartford Range. Flood lgts N end N/S rnwy inop. 75' lgtd pile driver moored in Conn. River 700' S of N/S and NW/SE rnwy intersection. (7-24)
BRIDGEPORT ARPT-Use rnwys only. (8-2)
BROOKFIELD ARPT-Open only to planes grossing less than 2000 lbs and closed to trans student pilots. (6-10)
**CONNECTICUT VALLEY SEAPLANE BASE (WINDSOR LOCKS)-New base. Lat 41-55, long. 72-37. (10-21). See page 143.
**CROMWELL SEAPLANE BASE-New base. Lat 41-35, long. 72-39. (10-17). See page 143.
GROTON ARPT-Rnwys being repaired. Equip. on fld. (10-1)
HARTFORD-RADIO: Auto. range monitor. sys inop. (9-30)
NEW HAVEN ARPT-Avail. days only. Use rnwys only. (12-4)
SIMSBURY ARPT-Turf soft. Washouts E end E/W rnwy. (5-21)

DELAWARE

BELLANCA FLD (NEW CASTLE)-Use rnwys only. Sod strips under const. (6-13)
DOVER AAF-Temp inactive-no facs. (See Special Notice re use).
NEW CASTLE CO. ARPT (WILMINGTON)-RADIO: TWA twr, receiving watches, and associated facs shut down with exception of range which will operate without voice for duration of strike. (10-24). FLD: Sod fld within bndrys of rnwys avail. lgt acft. (9-18)

DISTRICT OF COLUMBIA

SPECIAL NOTICE-TELEVISION TWR 730' ASL ERECTED 6.2 MI NW (302°) OF WASHINGTON NATIONAL AIRPORT, LAT 38-53-46, LONG. 77-08-05. (3-22)
ANACOSTIA NAS (WASHINGTON)-Avail. 0700 to sunset. Avail. to transport traffic after sunset upon receipt of two hrs prior req of ETA. Boom const masts 100 to 150' high lctd 600 to 800' N of Rnwy 3-21, mrkd. (7-12)
BOLLING FLD (WASHINGTON)-Rnwys 10-28, 14-32 closed. Rnwy 17-35 closed to acft when weather conditions below otc flight minimums. (10-15)
**WASHINGTON NATIONAL ARPT (WASHINGTON)-RADIO: CAA ILS shut down until approx Nov. 1. (10-9). FLD: 250' twr erected 4.8 mi W (267°) true, at lat 38-50-39, long. 77-07-32. (10-11). NAVY: Closed to Navy acft except MATS. Use Anacostia NAS. In special instances, all of which will be cleared by Anacostia Twr, Washington National Arpt will be avail. to Navy planes. ARMY: No Army acft will be cleared this fld without personal approval of CG AAF or Deputy Commander excepting those ATC acft on scheduled opers which require Washington National as Terminal; acft transporting VIP personnel such as Cabinet Members, Assistant Secretaries of War, and other personnel of like importance and those acft based at Washington National. Army acft landing this fld should taxi to new ATC Terminal Bldg N of Admin Bldg. GENERAL: Closed to acft without radio. Stay on paved areas-edges soft. Excavation, equip. along taxiways 1,2,3,4,5,6; ends of Rnwys 18,21,33,27,36, 3. Use extreme otn when swinging planes in these areas. Equip. SE portion fld and along apron edge. Otn taxiing or parking on apron. Flood lgts on Washington Monument 3 mi N inop. Const, equip. at intersection of taxi stripe 1 and 5. (10-28)

FLORIDA

ALBERT WHITTED ARPT (ST. PETERSBURG)-Fld unlgtd-smudge pots avail. on 1 hrs notice. Avoid sodded areas, white sand area E of N/S rnwy extending to water (soft). (1-2)
APALACHICOLA AAF-Temp inactive-no facs. (See Special Notice re use).
AVON PARK AAF-Temp inactive-no facs. (See Special Notice re use).
★BANANA RIVER NAS-RADIO: GCA equip. no longer avail. (10-18). Navy exper VHF rnwy localizers and various types of ILS operate intermittently day, ngt. (5-2). FLD: Closed to civil. acft days except on prior permission from CO and in emerg. Closed ngts to civil. acft except in emerg. S end Rnwys 2-20 under const. Taxiway lgts being installed-rnwy lgts being repaired lgtd on req. Acft of various types operating cont during IFR up to and including 2000' with weather minimums as low as 200' ceiling and 1/8 mi visibility. Air space will include area 20 mi radius from Banana River NAS. Acft will practice inst approaches. (8-23)
BANANA RIVER NAS SEAPLANE BASE-Seaplane landing area avail. W of stn on Banana River. Wind line consisting of seven green lgts on location in center of area ngts when training is scheduled. (7-11)
BOCA RATON AAF-Port floods avail. on 15 minutes notice. No 91 oct. Stay on rnwys-shoulders soft. (10-16)
BRONSON FLD NAAS (PENSACOLA)-Closed to all trans acft. (8-14)
CECIL NAAS (JACKSONVILLE)-Use in emerg only (caretaker status-no facs).
**CORKSCREW, SITE 12, TH-MM-Discont for relocation. (10-10)
DALE MABRY FLD (TALLAHASSEE)-RADIO: 251 kc, 126.18,118.3 mc transmitters and 3105,3117.5,4495,6210 kc, 118.3,126.18 mc receivers at CAA twr temp inop. Twr now operating on E side of fld with lgt signals only. (7-10). FLD: S 500' N/S rnwy unusable. 26' bldg erected 900' NW of NW end NW/SE rnwy, lgtd Observe twr E side fld for lgt signals. Bcn atop water tank S of fld inop. Bcn N side fld burning, but not flash. code ident. (10-12)
**DINNER KEY COAS (MIAMI)-Seaplane channel buoyed and lgtd. (10-10). Day or ngt landing facs avail. in emerg or off. bus. only. (10-10)
*DREW FLD (TAMPA)-No navy opers. (10-21). See page 133. Use rnwys only. Equip.

on fld days. Avail. to radio rcvr-equipped acft tuned to twr freq. (6-26)
EGLIN FLD (VALPARISO)-RADIO: Army ILS sys temp inop. (10-24). FLD: Acft approaching fld will enter Danger Area on the N or S side of area (25 mi S) along right edge of S leg of Crestview Range. (1)-Acft on CFR will fly 3000' or 500' below the ceiling whichever is lower until cleared by Eglin Twr. (2)-Acft on IFR will enter at last assigned airways cruising alt and ctc Eglin Twr for letdown instructions. Exten const. Port rnwy lgts avail. Rnwy 6-24. (10-23)
ELLYSON NAAS-EAST & WEST FLDS (PENSACOLA)-CLOSED TO TRANS ACFT EXCEPT IN EMERG.
FORMAN OLF (FT. LAUDERDALE)-Use in emerg only (caretaker status-no facs).
FORT LAUDERDALE-Obst lgts atop N twr Radio Stn WGBS 5 mi W inop. (9-23)
FORT LAUDERDALE NAS-Closed to all acft except with prior notification via dispatch and in emerg. Wind socks unreliable. Tetrahedron free swinging. (10-23)
GILBERT FLD (WINTER HAVEN)-Use rnwys only. (12-22)
HIDDEN ACRES ARPT (CLARCONA)-E/W strip avail. lgt acft. (9-15).
HILLSBOROUGH ARPT (TAMPA)-CLOSED. Sinkhole center of E/W rnwy 100' E of intersection center of fld. (5-26)
HOEQUIST ARPT (ORLANDO)-S half E/W rnwy avail., mrkd. (3-20)
JACKSONVILLE ARPT NO. 1-Army facs only. Equip. both ends NE/SW rnwy. Rnwy 18R-36L closed. 30' unlgtd poles for neon approach lgt sys being erected at the SW approach end of NE/SW rnwy. Tetrahedron inop until approx Nov. 6. (10-23)
JACKSONVILLE NAS-Closed to ngt seaplane opers. Trans acft desiring ngt landing facs notify Jacksonville NAS 12 hrs in advance. Equip. on fld days. (9-19)
**KEY WEST NAS-150' oil well derrick, 8 mi ENE (76°) true, in Lower Sugar Loaf Sound, lat 24-36-11.39", long. 81-33-47.7", lgtd and mrkd. (10-14)
KEY WEST NAS SEAPLANE BASE-CLOSED TO TRANS ACFT EXCEPT IN EMERG OR PRIOR ARRANGEMENT. (6-19)
**LAKE WALES ARPT-24" rot. duplex bcn, showing clear and green, oper sunset to sunrise, mounted 32' above ground at NE side of arpt, where bndry and obst lgts are in oper sunset to sunrise. (10-16)
LEE OLF (GREEN COVE SPRINGS)-Closed except in emerg and off. flights. Avail. on 24 hrs advance notice to CO, NAS Jacksonville. (1-26)
LEESBURG AAF-CLOSED TO ALL TRANS MIL ACFT EXCEPT UNDER WRITTEN ORDERS OF AN AIR FORCE, COMMAND OR HIGHER AUTHORITY OR IN EMERG. No facs.
MacDILL FLD (TAMPA)-RADIO: Glide path of Army ILS (SCS-51) temp inop.(6-19) Army H fac temp inop. (8-5). DF stn inop. (10-28) FLD: Rnwys 4-22, 13-31, 18-36 avail. (8-12).
MARIANNA ARPT-Equip. on fld days. Mrkd hole Rnwy 8-26. Rnwy 4-22 closed. (10-10)
MASTER OLF (MIAMI)-Closed from thirty min after sunset until 0700. (9-5)
★MAYPORT CGAS-RADIO: Coast Guard Twr comm Oct 7. See page 133. FLD: Closed to all traffic except Air Sea Rescue and emerg landings (caretaker status-no facs). Rnwys 32 and 36 to intersection closed. (9-27)
MEACHAM ARPT (KEY WEST)-Two unlgtd 40' water tanks 400' E of S end Rnwy 4-22. (7-10)
**MIAMI CANAL, SITE 19, TM-MM-Discont for relocation. (10-10)
MIAMI INTERNATIONAL ARPT-AAF (MIAMI)-Domestic trans acft taxi to Army Terminal Bldg SE side fld upon arvl and before dptr and register with Ramp Supervisor. Scheduled air-carrier and International acft requiring immigration and customs service use 36th St. Terminal Bldg. Non-scheduled trans acft requiring customs service advise twr before landing. Use rnwys only. Closed to trans Naval acft-use NAS in vcnty. NE/SW rnwy closed. Equip. on fld.

Majority of taxiways closed-under const. Unlgtd 25' hangar under const approx 500' S of centerline and 600' E of E end of N E/W rnwy. Obst lgts atop Seaboard R.R. Shops S bndry N fld inop. Svcg in emerg only and no maintenance trans Army acft 2400 to 0600. (9-14)
MIAMI NAS-Acft remain on N leg Miami Range for distance of 25 mi N of range stn when passing Miami NAS. Stay clear of NW corner fld-fighter train. break up area. Acft practicing touch and go landings ngts. (9-5)
MORRISON FLD (WEST PALM BEACH)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. OR IN EMERG. N/S rnwy closed. Air Rescue Service acft will be cleared into this fld. (10-9)
NORTH POMPANO OLF (POMPANO)-CLOSED (no facs). (1-24)
ORLANDO AAB-ORLANDO ARPT-Closed to acft exceeding 50,000 lbs except for use alternate destination by scheduled air-carriers. North E/W, West N/S rnwys closed. No 91 oct. No Army maintenance Sats and Suns and from 1700 to 0800 daily. (10-9) Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon thru Fri. (7-1)
PAGE FLD (FT. MYERS)-NE/SW, NW/SE rnwy lgts, tetrahedron inop. Use E/W rnwy only at ngt. (9-14)
PENSACOLA ARPT-Exten Navy train. throughout area. Join pattern at 500' left turn and circle. Use rnwys only. Taxi to right on nearest avail. taxi strip. Opers and svcg ltd brick hangar. (9-23).
PENSACOLA NAS-CHEVALIER FLD (PENSACOLA)-Avail. days only. Ngts use NAS Corry Fld. Permission may be obtained to land at Saufley or North Whiting Flds. Multi-engine acft requiring rnwys in excess of 2500' land at NAS Corry Fld, bear. 341° NNW. Disposition Delivery acft land at NAAS Ellyson Fld. Pilots desiring to land at Chevalier Fld contact Pensacola Navy twr before entering traffic pattern. (8-22)
**PETER O. KNIGHT ARPT (TAMPA)-No army opers. (10-21). See page 133. Equip. on fld days. Sodded areas unsafe heavy acft. Rnwy lgts avail. on 1 hrs notice between 1900 and sunrise. (10-1)
★**PINECASTLE AAF-RADIO: Army twr and ILS decomm. Oct 23. FLD: No lgts or svcg (10-15). See page 133. Temp inactive-no facs. (See Special Notice re use). Radio controlled target ship in Pinecastle area 6 mi S of Orlando 0800 to 1200 daily Mon thru Fri. (10-15)
RICHMOND NAS-LTA-Use in emerg only (caretaker status-no facs).
RIDDLE FLD (CLEWISTON)-Heavy acft avoid lgt bar and rod steel mat. Twr open only during scheduled flying. Unsafe areas partially mrkd days, unmrkd ngts. Cloud flying when clouds bfoken to overcast during daylgt hrs in area bounded by lat 26-27, lat 26-43, long. 80-50, long. 81-27. Use rnwys only. Grass areas flooded most of summer. (7-27)
RUSSELL-RADIO: Navy range temp inop. (10-24)
**SEMINOLE INDIAN RESERVATION, SITE 16, TM-MM-Discont for relocation. (10-10)
STENCEL FLD (GAINESVILLE)-Equip. on fld, mrkd. (5-24)
TAYLOR FLD (OCALA)-Use rnwys only. (5-8)
TITUSVILLE-COCOA ARPT (TITUSVILLE)-Hangar under const. (9-10).
VERO BEACH-Blasting of ground structure will be in progress thru Nov. 15. on North Island in an area lying between the Atlantic Ocean and Indian River extending 7 mi S from a line due E of Vero Beach. Dangerous to low flying planes. (8-3)
WHITING FLD NAAS-NORTH (MILTON)-Avoid fld area under 2000'. 6" sloping curb at rnwy edges. Tetrahedron indicates rnwy in use and not wind direction. NE/SW rnwy lgts inop. (3-2)

GEORGIA

ALBANY ARPT-Use rnwys only. (8-22)
ATHENS ARPT-Bndry, bcn lgts inop. (8-10)
ATLANTA-RADIO: Compass locator inop. (10-13)

GEORGIA-Continued

ATLANTA ARPT-RADIO: Middle marker of CAA ILS lctd 3600' SE of SE end NW/SE rnwy, keyed with alternate dots and dashes will be comm soon. Outer marker will be relctd 4.5 mi SE of SE end NW/SE rnwy. Lclzr temp inop. (9-19). FLD: Const, equip. on fld intmtly. Use rnwys ngts. Closed to HB and VHB acft. Army temp inactive-civil. facs. Trans army acft use Marietta AAF. Twrs of Radio Stn WSB 12 mi NE being dismantled, lgtd. (8-3).

ATLANTA MAS-RADIO: 142.74 mc transmitter and 3117.5,6210 kc receivers at Navy twr temp inop. (10-28). FLD: Acft on IFR between 2000 and 0700 clear thru A.T.C. and proceed to Atlanta Arpt. Const equip. along rnwys. (5-10)

AUGUSTA-Three 310' twrs, one 420' twr being constructed by Radio Stn WGAC approx 5 mi N Augusta Range Stn, obst lgtd. (7-18)

BEMISS FLD NO. 3 (VALDOSTA)-Temp inactive-no facs. (See Special Notice re use

BOWERS FLD (BAINBRIDGE)-CLOSED (high weeds). (8-14)

BUSH FLD (AUGUSTA)-WAC planes parked entire fld off rnwys. Use rnwys only. Close flight plans with Bush Twr. (7-1)

CAMP STEWART AAF (HINESVILLE)-Temp inactive-no facs. (See Special Notice re use). Cattle on fld. (12-17)

CHATHAM AAF (SAVANNAH)-Temp inactive-no facs. (See Special Notice re use). Rot. bcn inop. (5-22).

COCHRAN FLD (MACON)-Temp inactive-no facs. (See Special Notice re use). Use rnwys, taxi strips only. (12-5)

COOK CO. ARPT (ADEL)-Lgts inop. (9-23)

★DANIEL FLD (AUGUSTA)-RADIO: CAA twr comm Oct 18. See page 132.

GLYNCO NAF-LTA-RADIO: Navy twr temp closed, operates on call on one hrs notice. FLD: Tetrahedron temp removed. (10-11)

HINESVILLE ARPT-Equip. on fld and in approach zones intmtly. (2-26)

HUNTER FLD (SAVANNAH)-Sharp incline of approx 20', 370' on approach to Rnwy 23L. 120' lgtd twr between Rnwys 10 and 15 outside outer perimeter. No taxiing permitted on ramp east of Terminal Bldg-congested vehicular traffic Area being fenced off. Will be compd approx Nov 15. (10-9)

KINGS ARPT (MILLEDGEVILLE)-Soft after rainy weather. (7-22)

LA GRANGE ARPT-Heavy acft use rnwys, taxiways only-grass areas soft. (12-27)

LAWSON FLD (COLUMBUS)-MAKE ALL APPROACHES TO LAWSON FLD W OF CHATTAHOOCHEE RIVER, HIGH TRAJECTORY FIRING, E, SE OF LANDING AREA DAY, NGT. Pilots may be required to make cross-wind landings. Use rnwys only. 4 lgtd parachute jumping twrs E of fld; mass parachute jumping from all alts under 1600' scattered thru area 10 mi sq. S of fld. Drainage ditch with unlgtd fence between ends Rnwys 2 and 32. Right hand traffic Rnwys 14, 20, 27; left hand on Rnwys 2, 9, 32. (6-25)

LE TOURNEAU ARPT (TOCCOA)-NNE/SSW strip closed (const). Avail. only with extreme otn. 1000' extension being added to W end E/W strip. (8-6)

MARIETTA AAF-No 73 oct. Ltd sto. Facs avail. 0800 to 2000. Radio Stn WFOM erecting unlgtd 100' twr 2 mi WSW. (9-9)

••MC RAE INT, SITE 47, MM-AG-Name changed to McRae Arpt, Site 47, MM-AG.(10-10) See page 125.

MOODY FLD (VALDOSTA)-Temp inactive-no facs. (See Special Notice re use). 2 obst lgts atop Radio Stn WGOV inop.

NORTHSIDE ARPT (MOULTRIE)-NE/SW strip closed. (3-26)

PANHAIRE FLD (MARIETTA)-Emerg use only-const. (8-26)

ROBINS FLD (WARNER ROBINS)-No 91 oct. (7-17)

ROCKY FORD FLD NO. 1 (VALDOSTA)-CLOSED TO HEAVY ACFT. (7-15)

ST. SIMONS ISLAND MAS-Avail. only to mil acft and scheduled airlines sunrise to sunset. Closed ngts except on prior req. Only 100 oct avail. (8-3)

SOUTHER FLD (AMERICUS)-Use strips only-parked acft.

TURNER FLD (ALBANY)-Temp inactive-no facs. (See Special Notice re use). Use rnwys only. Rnwys 40, 9R, 14S, 18S closed. (8-26)

GEORGIA-Continued

VADA ARPT (BAINBRIDGE)-CLOSED (cattle on fld). (8-14)

VALDOSTA ARPT-Army temp inactive-civil. facs.

VIDALIA-LYONS AIRFLD (VIDALIA)-Temp inactive-no facs. (See Special Notice re use). Flight plans handled thru Turner Fld. (4-5)

IDAHO

BENNETT FLIGHT STRIP (ANDERSON DAM)-Avail. for emerg use only. (5-7)

BURLEY ARPT-Use rnwys only (rough, vegetation). Soft spots on taxi strips. (7-19)

COEUR D'ALENE AIR TERMINAL-Equip. on fld days. (10-19)

••DUBOIS INT, SITE 23, SL-GT-Name changed to Dubois Arpt, Site 23, SL-GT. (9-12). See page 5.

GOODING ARPT, new- Use rnwys only-sod unsafe (erosion). (9-20)

GOWEN FLD (BOISE)-Army temp inactive-civil. facs. Use rnwys, taxi strips only, shoulders soft. Blinding 30 million candle pwr ceilometer 1000' NNW of arpt bcn. (9-13)

IDAHO CO. ARPT (GRANGEVILLE)-NE/SW strip under const. (9-19)

IDAHO FALLS ARPT-Code bcn, strip lighting under const. (9-13)

MOUNTAIN HOME AAF-Temp inactive-no facs. (See Special Notice re use). N/S rnwy closed. Gravel area W edge approx 20' sq. soft.

POCATELLO ARPT-6' ceilometer projector in center of grass strip running parallel with Rnwy 5-23 and approx 75' S of rnwy at a point 500' W of taxi strip that intercepts Rnwy 29, lgtd. Equip. on fld days. (6-29)

POCATELLO AAF-Temp inactive-no facs. (See Special Notice re use).

PRIEST RIVER MUN. ARPT-NNE/SSW strip under const. (7-1)

REXBURG ARPT-W side N/S strip at N end washed out. (7-26)

ILLINOIS

ASHBURN ARPT (CHICAGO)-Avail. lgt acft under 2000 lbs only. Landing fee for heavier acft $2.00 and up. (7-25)

AURORA ARPT-Use strips only. (9-28)

BEARDSTOWN ARPT-S 400' N/S strip, 300' from end E/W strip and fld soft during heavy rains, mrkd. (7-15)

CHANUTE FLD (RANTOUL)-Ltd parking. (4-25)

CHARLESTON ARPT-Left traffic when wind from N or W; right traffic when wind from S or E. Unsafe heavy acft-soft. NE/SW rnwy closed (const). (9-23)

CHICAGO ARPT-NE/SW rnwy closed, unlgtd (parking area). Closed to trans mil acft except on off. bus. or in emerg. No Army facs. Army acft use Chicago-Orchard Arpt. Closed to trans Navy acft except on off. bus. or acft containing officers of flag rank. Pilots must register in Terminal Bldg on arvl and check out on dptr. Floodlgts avail. on req. Following landing fees in effect to all non-scheduled revenue producing acft: 30 cents per 1000 lbs or fraction thereof of the gross weight of the acft. Minimum charge $2.00. Fee payable at Arpt Supt's Office before take-off. All numerals and letters on Rnwys 13L,13R lgtd ngts. Hangar under const N side fld just E of NW corner. Otn when taxiing. Covered ditch adj Rnwys 27L, 31R, mrkd. Ditch on E side Rnwy 36R, mrkd. (9-11)

CHICAGO-HAMMOND ARPT (LANSING)-Surplus Acft Sales Center-parked acft.

★CHICAGO-ORCHARD ARPT (CHICAGO)-RADIO: Oct 22, CAA twr comm. See page 140. FLD: Closed ngts-no lgts. (10-21)

CYRIL LEBERT ARPT (LEBANON)-Left traffic pattern at 400'. Watch for Scott Fld traffic. (6-22)

••DECATUR ARPT-Lat 39-51-15, long. 88-51-45. (10-18). See page 68. Avail. days only. Ditches along strips. Lgts being installed. (10-18)

GALESBURG ARPT-Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23).

GEORGE FLD (LAWRENCEVILLE)-CLOSED (no facs). (5-15)

ILLINOIS-Continued

GLENVIEW NAS-Prior approval required all acft expecting to ROH except off. bus. regularly scheduled MATS or MATSPWS flights. Equip. on approaches. Non-radio equipped acft land on mats only. Closed ngts except in emerg or by prior arrangement. (7-8)
INTERSTATE ARPT (DE KALB)-CLOSED. (5-11)
JOLIET ARPT-SITE 22, LS-CO-Emerg fueling and acft svcg avail. 2400 to 0800 on req. (7-18)
**LAKE COUNTY ARPT (WAUKEGAN)-New fld. Lat 42-25-15, long 87-52-00. (10-3) See page 33.
MARION ARPT-Ext. train. 8 mi radius. Trans pilots use left hand rectangular 600' traffic pattern. NE/SW rnwy closed. During wet weather use black rnwys only. (9-6)
**MIDWAY AVIATION ARPT (HORACE)-New fld. Lat 39-43-00, long 87-41-30. (8-14) See page 68.
MOLINE-RADIO: Range flight-checked Oct 25, courses correctly aligned.
MOLINE ARPT-75' lgtd mast, 1500' W, 500' S of centerline of E/W rnwy guyed with cables. 30' lgtd gravel plant, 422' due W of SE end NE/SW rnwy. Pwr shovels, high boom near both plants. Equip. NW portion fld days. 20' antenna being erected 1000' S of N end N/S rnwy and 250' E of centerline N/S rnwy, mrkd. N/S rnwy closed (ditch both sides). (10-8)
PEORIA ARPT-Closed ngts. (10-8)
PROSPERI ARPT (TINLEY PARK)-Use rnwys only. (7-5)
QUINCY ARPT-Avail. days only. (10-18)
RUBINKAM ARPT (HARVEY)-Use only area W of trench. (4-26)
ST. CHARLES ARPT-Closed except in emerg. (10-2)
ST. DAVID ARPT-Closed to cross-country acft. No svcg avail. N/S strip closed New arpt under const 6 mi N. (6-13)
SCHILT FLD (OLNEY)-NW/SE strip soft in wet weather and after thaws. (9-21)
★SCOTT FLD (BELLEVILLE)-RADIO: Range coordinates: lat 38-31-06, long 89-53-15. (10-25) AACS, ground to air stn inop on 116.1,137.88,140.58 mcs., 4630 kcs voice and 4595, 8200 kcs CW. (10-22)
SMITH AVIATION FLD (ST. ELMO)-Use N/S rnwy only. Equip. on fld. (7-31)
SPRINGFIELD ARPT-Fld and strips soft after heavy rains. Unsafe heavy acft when soft. Closed ngts. (7-18)
VANDALIA MUN. ARPT-Use only N/S rnwy after heavy rains. (5-10)
WAUKEGAN ARPT-NW corner NW/SE rnwy, W end E/W rnwy unusable, mrkd. (8-16)
WHITE CO. ARPT (CARMI)-NE/SW strip rough. Low wires S end fld. (7-22)
YORK TOWNSHIP ARPT (LOMBARD)-Equip. on fld. (8-9)

INDIANA

ATTERBURY AAF (COLUMBUS)-Temp inactive-no facs. (See Special Notice re use).
AUBURN ARPT-Use strips only. Kerosene lanterns avail. in emerg. (5-14)
BAER FLD (FORT WAYNE)-RADIO: Army ILS (CAA type) temp inop. (10-24) FLD: Temp inactive-no facs. (See Special Notice re use). E/W rnwy closed. (10-22) Antenna pole obst lgts rmvd, poles unlgtd. New poles will be erected 3.5 mi SW and lgtd.
BENDIX FLD (SOUTH BEND)-Army temp inactive-civil. facs. Equip. on fld days. N triangle closed. (8-15)
BLOOMINGTON ARPT-Fresh grading soft when wet. (8-7)
BRIGHTWOOD ARPT (INDIANAPOLIS)-Fld under const. E/W rnwy closed. Pilots observe tetrahedron for rnwy directions. Taxi on well mrkd taxi strips and dead rnwys. (9-19)
CHAIN LAKES ARPT (SOUTH BEND)-Avail. acft up to 6000 lbs. Use strips only. (5-23)
CHARLESTOWN ARPT-2000' strip under const-usable with ctn. (9-16)
COLUMBUS ARPT-Turn off rnwys onto taxi strips after landing. (9-10)

INDIANA-Continued

**EVANSVILLE ARPT, new-ABANDONED. (10-21)
EVANSVILLE ARPT, old-Use rnwys only. Equip. on fld days. (9-26)
FORT WAYNE-RADIO: Soon receiving and teletype facs will be relctd to Baer Fld.
HULMAN FLD (TERRE HAUTE)-Use rnwys only (erosion). (8-28)
**HUNTINGTON COUNTY ARPT-Name changed to Wake Fld. (10-14) See page 36.
INDIANAPOLIS-RADIO: GCA unit operated by CAA on exper basis at Indianapolis Arpt, between the hrs 0800 and 1600 Mon thru Fri. Unit aligned for approach from the SW on Rnwy 4. Transmits on 212 kcs, 126.18 mcs, receives on 3105,4495,6210,3117.5 kcs, 126.18 mcs. Pilots desiring to make practice runs should make arrangements thru Indianapolis twr, Indianapolis Radio or airline ground stn at Indianapolis. All flights must be CFR prior to starting GCA runs and must remain CFR throughout approach. No run should be made in hooded cockpit unless accompanied by safety pilot. 75 mcs bndry marker using keyed 3000 cycle tone, operating intmtly at SW bndry of arpt. Exper lclzr on 108.3 mcs operating intmtly SW end NE/SW rnwy. Exper Compass Locator at outer marker. Freq. 219 kcs. Ident. "ID". Exper FM operating occasionally 10 mi SW fld on lclzr course, modulation 3000 cycles, keyed "U". Exper radio range operating intmtly at Avon, Ind, 7 mi NW of arpt on 172 and 194 kcs. Mooresville holding marker 10 mi SW of arpt operating on low power keying "U", tone 3000 cycles.)10-2)
INDIANAPOLIS ARPT-Heavy acft use rnwys only. Const around N side fld, parking ramp. No crash equip. Mil pilots register with registrar in Adm Bldg Lobby, trans acft at City desk in Terminal Bldg Lobby. Rnwy 18L-36R closed. 1 bldg and 22' mast 500' off centerline near SW end NE/SW rnwy. Tetrahedror being installed in triangle between NE/SW,NW/SE,E/W rnwys.
EXPER OPERS: Approach lgt sys on SW approach lane; bndry lgts SW corner, operating intmtly. 2-1/2' exper rnwy lgts both sides NE/SW rnwy. Exper flights of all types in all weather conditions. 25' pole outside bndry 500' W of Rnwy 18; 65' twr 10' N CAA hangar; truck and 20' equip. 400' NW end NW/SE rnwy 500' W of rnwy centerline; truck 20' high NE corner at bndry 500' NW of NE/SW rnwy; 10' bldg with 25' antenna middle of W bndry; five 131' twrs 6 mi NW; 27' glide path stn 250' W of N/S rnwy and lclzr stn with 19' screen 700' N of N/S rnwy; 12' trailer 1000' NE of NE/SW rnwy on centerline; trailer adj CAA glide path 400' SE of NW/SE rnwy, all lgtd ngts. 15' unlgtd trailer 800' E of CAA hangar. Tetrahedron uncontrollable. (10-26)
★LAFAYETTE-RADIO: NW course realigned to 140°. (10-17)
MADISON AAF-JEFFERSON PROVING GROUNDS (MADISON)-CLOSED TO ALL ACFT.
McCOMB ARPT (DECATUR)-Closed when wet. (5-19)
MICHIGAN CITY ARPT-Use only mrkd strips, taxiways-bal fld unsuitable for landing and taxiing. (7-27)
MORGANTOWN-RADIO: FM on S course of Indianapolis Range will remain in oper on exper basis until Nov 1.
MUNCIE ARPT-Hangar under const along S bndry. (8-31)
PERU ARPT-Use only rnwys unless strong cross wind conditions exist. (5-20)
PLYMOUTH ARPT-E/W strip avail. NNW/SSE strip avail with ctn.(const).(7-3)
PURDUE UNIVERSITY ARPT (LAFAYETTE)-Due to heavy local traffic, trans acft avoid turning in middle of fld after landing. Continue to taxi straight to end of fld then taxi to within 100' of bndry to hangar. Scattered pools of water SW end NE/SW rnwy in wet weather. Const NE end of fld. (9-20)
SKY HAVEN ARPT (BEDFORD)-Use rnwys only-shoulders soft. Left traffic pattern. Const areas mrkd. (8-27)
SMITH FLD (FT. WAYNE)-Hangar under const N edge fld, mrkd. (10-5)
**STAIR ARPT (MULBERRY)-Lat 40-21, long 86-40. (10-16) See page 69.
STARK CO. ARPT (KNOX)-N/S strip soft. (7-25)
STOUT FLD (INDIANAPOLIS)-Temp inactive-no facs. (See Special Notice re use).

INDIANA-Continued

WHITTENBERGER ARPT (WABASH)-Use right traffic in landing S or W; left in landing E or N. No-wind conditions land to W. (8-16)

IOWA

AUDUBON AIRWAYS ARPT (AUDUBON)-Fld rough.
CEDAR RAPIDS ARPT-Use rnwys, taxi strips only. (9-23)
CHAPMAN FLD (WATERLOO)-Bcn, bndry, obst lgts inop. Soft in wet weather(7-26)
COUNCIL BLUFFS INT, SIT O, OH-CG-Site will be discont and relctd soon 1-1/4 mi E of the E end of the E/W rnwy at Omaha Arpt, Nebr. (10-9)
CRAM FLD (DAVENPORT)-Const. Fld rough, equip on fld. (3-21)
DES MOINES ARPT-Entire area off rnwys E of N/S, NW/SE rnwys closd. Use rnwys only. Army temp inactive-civil. facs. (10-24)
ELKADER AIRPARK-Strip rough and rolling. (5-22)
HARLAN ARPT-Strips plowed up-regrading. Strip E of N/S strip approx 1000' long avail. with extreme ctn-rough. (10-11)
HUNTER FLD (CEDAR RAPIDS)-Use rnwys only. (6-22)
IOWA CITY ARPT-Avail days only. Use rnwys, taxi strips only. Sod adj rnwys, taxi strips freshly seeded, graded. (8-30)
MASON CITY ARPT-Sod between taxi strip and N end N/S rnwy unusable. (10-14)
OTTUMWA NAS-Equip. on fld. Only 73 oct. avail. (7-25)
**ROCK FLD (OSKALOOSA)-The name of this fld is Roth Fld. This corrects ARIGI Vol 1, No. 15. See page 32. (5-21)
SIOUX CITY ARPT-Blinding 30 million candle pwr ceilometer 1000' N of Admin Bldg. Facs avail 0800 to 1700. (10-10)
**WIESE FLYING SERVICE ARPT (LONE TREE)-New fld. Lat 41-32-15, long 91-25-00. See page 32.
WINTERSET ARPT-Rough and rolling. (2-28)

KANSAS

ATKINSON ARPT (PITTSBURG)-CLOSED (const). (8-15)
BEACH ARPT (WICHITA)-Use rnwys only during damp weather. (7-1)
BLOSSER FLD (CONCORDIA)-Equip. on fld intmtly. (7-13)
CESSNA ACFT FLD (WICHITA)-Portion of fld E of Rnwy 17L unsafe-large cracks. Stay W of flags. (10-11)
DODGE CITY ARPT-Blinding 25 million candle pwr ceilometer projector installed 1000' NW of Admin Bldg. E/W rnwy closed. (10-16)
DODGE CITY AAF-Temp inactive. No facs. (See Special Notice re use).
DOWNS ARPT-When taking off to the S or E use right traffic. (9-30)
FAIRFAX FLD (KANSAS CITY)-Use rnwys only. (3-12)
FORT RILEY-AA firing conducted immediately N of Marshall Range Sta.
**FREDONIA MUN. ARPT-New fld. Lat 37-34-45, long 95-50-15. (8-9) See page 64.
GARDEN CITY AAF-Ctc Garden City Radio for landing information ngts. Sveg, opers avail. 0800 to 1630 Mon. thru Fri only. (10-9)
GOODLAND ARPT-Rnwy sides soft when wet. (9-20)
**HAWK'S ARPT (ATCHISON)-New fld. Lat 39-34-15, long 95-08-30. (7-23) See page 29.
HERINGTON AAF-Temp inactive. No facs. (See Special Notice re use).
HUTCHINSON MUN. ARPT-Heavy acft use rnwys only. (9-23)
HUTCHINSON NAS-Closed to all Navy acft except on off. bus. (10-1)
INDEPENDENCE AAF-Only N/S rnwy near ramp avail. Sveg, opers avail 0800 to 1630 Mon thru Fri only. (9-20)
**LARNED MUN. ARPT-New fld. Lat 38-12-30, long 99-05-15. (7-18) See page 60.
LAWRENCE ARPT-Center fld, taxi areas unusable, soft. Use rnwys only in dry weather. (8-16)
LLOYD FLD (FT. SCOTT)-Use in emerg only (vegetation). (6-24)
MARSHALL FLD (FT. RILEY)-For AA firing see Ft. Riley, Kans. Use rnwys,taxi strips,ramps only. Soft shoulders off rnwys. Obst lgts inop. 150' twr atop 1200' hill. (4-3)

KANSAS-Continued

OLATHE NAS-Closed 1800 to 0800 - flights desiring landing during these hrs must notify opers before 1600. (6-13)
OLATHE OLF NO. 2-Use in emerg only - no facs.
OLATHE OLF NO. 4-Use in emerg only - no facs.
OLATHE OLF NO. 7-Use in emerg only - no facs.
OLATHE OLF NO. 9-Use in emerg only - no facs.
SHERMAN FLD (FT. LEAVENWORTH)-Left traffic on Strips 12, 15; right traffic on Strips 30, 33. Use strips only. Strips soft when wet. 10' dike connects N end N/S strip. Closed to VHB type acft. (7-8)
SMOKY HILL AAF (SALINA)-RADIO: Army ILS (CAA type) temp inop. (10-24) FLD: E/W rnwy closed. (10-17)
**STATE LINE ARPK (STANLEY)-New fld. Lat 38-53-15, long 95-36-45. (7-17) See page 64.
TOPEKA-Inst flying radio range ngt, day. Call Topeka Radio at least 20 mi out before flying range.
WALKER AAF (HAYS)-Temp inactive. No facs. (See Special Notice re use). Trucks on NW/SE rnwy. (5-23)
WICHITA ARPT-RADIO: Glide path of CAA ILS will be comm soon on 335 mcs.(10-12
**WICHITA ARPT-30' mast on glide path shelter house, obst lgtd. (10-22) Ctc lgts all rnwys under repair. Avoid taxiing over ctc lgts. Closed to trans acft without radio. Stay on concrete, sod unsafe. Equip. on fld days. Army temp inactive-civil facs. (10-22)

KENTUCKY

BLUE GRASS FLD (LEXINGTON)-Use rnwys only. (10-13)
BOWMAN FLD (LOUISVILLE)-CLOSED TO B-26 AND AT-23 ACFT. Heavy acft use rnwys only. Army temp inactive-civil facs.Trans mil acft use Godman Fld.(6-28)
CAMPBELL AAF (HOPKINSVILLE)-Opers, engineering closed 1700 to 0800. (9-24)
GODMAN FLD (FORT KNOX)-RADIO: Army range now operating reliably, maximum power only 25 watts. Multiples on S course about 15 mi out. (10-17) FLD: CLOSED TO ALL HEAVY AND VERY HEAVY BOMBARDMENT TYPE ACFT EXCEPT IN EMERG. Opers off. open 0600 to 2400; after 2400 avail upon 12 hr prior notice. (10-15)
GREATER CINCINNATI ARPT (COVINGTON)-Bndry lgts inop. Obst 600' due S Admin Bldg. (10-28)
STANDIFORD FLD (LOUISVILLE)-Bndry, rnwy lgts inop. Tetrahedron unlgtd, free swinging. (5-25)

LOUISIANA

★BARKSDALE FLD (SHREVEPORT)-RADIO: Army ILS (CAA type) temp inop. (6-4) Army GCA sys operates 0800 to 1700 Mon -thru Fri for inst training only. (10-15) FLD: Liaison type acft land Rnwy 14R-32L. Exten training - heavy traffic. (7-22)
COTTON VALLEY ARPT-E/W strip closed.
CROSS LAKE ARPT (SHREVEPORT)-CLOSED (const; equip all strips). (4-29)
CROSS LAKE SEAPLANE BASE-Scattered obsts in seaplane area-ctn when landing. (10-4)
DE RIDDER AAB-Temp inactive. No facs. (See Special Notice re use).
EAST BATON ROUGE PARISH ARPT (BATON ROUGE)-Avoid SE corner fld, marked with white flags.
**HARDING FLD (BATON ROUGE)-Bndry, rnwy, etc, obst lgts. See page 121.
HOUMA NAS-LTA-Twr operates daylgt hrs on week days only for acft in connection with Bureau of Aeronautics Storage. Closed to all other acft except in emerg. No fuel. (7-22)
IBERIA PARISH ARPT (NEW IBERIA)-Use rnwys, taxi strips-sod shoulders parallel rnwys and taxi strips avail. lgt acft only. Rnwy lgts inop. (3-16)
JENNINGS ARPT-Use strips only in wet weather. Smudge pots avail. on prior arrangements. Unlgtd pole line S and E side fld. (5-17)

LOUISIANA-Continued

LAFAYETTE ARPT-Avail. days only. Use rnwys only. (7-4)
LAKE CHARLES-RALIO-Range and voice fac will be shut down until approx Nov 2. (Const.)
LAKE CHARLES AAF-Blinding 30 million candle pwr ceiling lgt installed Stn TBAS. Operates during cloudy conditions. No 91 oct. (7-19)
**MOISANT INTERNATIONAL ARPT (NEW ORLEANS)-Rnwy, range, bndry lgts avail, in emerg or on req. (10-14). Use rnwys only ngts. Sod area 200' each side rnwys avail. lgt acft days only. Closed to all acft not equipped with 2-way radio except in emerg. 171' unlgtd steel derrick being erected approx 15 mi SSE in Lake Salvador. (10-28)
MONROE-RALIO-Courses ground-checked only. (10-19)
MONROE ARPK-New Arpk 1/2 mi SE of old Monroe Arpk unsafe (soft). (9-12)
NATCHITOCHES ARPT-Taxi to right. (4-23)
**NEW ORLEANS-45' pwr house stack lctd Coast Guard Barracks on Lake Ponchatrain at Bayou St. John, obst lgts discont. (10-22)
NEW ORLEANS ARPT-CLOSED TO ALL NAVY ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. Obst lgts on S pole line inop. Equip on fld days. Non-radio equipped acft use extreme ctn. Closed to all Army acft except primary, basic and advanced (not inclg converted tactical type trainers, utility cargo, C-46, C-47 series, C-60, C-64, liaison acft. helicopters and autogyros. (7-20)
NEW ORLEANS NAS-Avail. Navy acft not exceeding 9000 lbs daylgt hrs. Equip. all rnwys-conducting evaluation tests. Fld on positive control. (10-11)
**RUSTON ARPT-Lat 32-30-45, long. 92-37-15. (5-23) See page 101.
SELMAN FLD (MONROE)-Closed to all acft except scheduled airlines. No svcg facs. Obst lgts atop twr, hangars, floodlgts atop poles W side fld inop. Ngt lighting facs not avail. trans acft. Equip. on fld. (9-4)
SHREVEPORT ARPK, INC.-Const on fld. Land S of new hangar. Equip on fld days. (6-18)
SHREVEPORT ARPT-RALIO-About Nov 10, CAA twr will discont guarding 142.74 mcs. (10-27). FLD: Use rnwys only. Two 120' derricks 1/2 mi SE fld and one 120' derrrick 1-1/4 mi S within approach zone N/S rnwy lgtd. (8-7)
**TURNER FLD (MONROE)-Abandoned. (10-24) See page 101.

MAINE

AUGUSTA ARPT-Bcn operating intmtly. Obst lgts atop poles 400' N of ENE/WSW rnwy, and on bldgs S side Admin Bldg inop. Equip. on fld days. (9-5)
BRUNSWICK NAS-Closed to all but off. flights (caretaker status - no facs).
BOARDS ARPT (BREWER)-N 1000' N/S rnwy avail, bal of rnwy closed until spring repairs. (10-20)
DOUGLAS FLD (BRUNSWICK)-Avail. emerg use only. Right traffic when wind from the S. (8-28)
DOW FIELD (BANGOR)-Temp inactive. No facs. (See Special Notice re use). E/W rnwy closed. Use concrete portion fld only. Closed 1900 to 0700. (7-1)
**DOWN EAST AIR SERVICE SEAPLANE BASE (BANGOR)-Correct location: Lat 44-49-00, long. 68-43-00. (9-5) See page 144.
GEORGETOWN ISLAND-Two circular danger areas approx 3 mi SE and approx 6 mi SW have been discont.
HOULTON ARPT-Closed to all acft except scheduled airlines and local opers. Other acft land by prior permission from Resident Engineer, tlfo 2211.
**HOULTON FLYING SERVICE ARPT-ABANDONED. See page 17.
LEWISTON-AUBURN ARPT (AUBURN)-Safety strips unsafe heavy acft-use rnwys. (7-20)
MILLINOCKET-RADIO-Auto. range monitor. sys temp inop.
MILLINOCKET ARPT-NW/SE rnwy closed from intersection to NW end. Grade stakes W side NW/SE rnwy. (10-8)

MAINE-Continued

NORRIDGEWOCK ARPT-CLOSED - Use in emerg only.
OLD TOWN ARPT-Use rnwys only - safety strips rocky. Lgts inop. (7-10)
PORTLAND ARPT-E/W rnwy closed ngts (ctc lgts inop) Equip. on fld days. (9-20)
PRESQUE ISLE AAF-RADIO-Army DF facs on standby status; services avail within 1/2 hr upon req over air to ground or point to point facs. (3-4)
RAYMOND'S ARPT (PHILLIPS)- NW end NW/SE strip soft beyond flagged area. (10-7)
**RICHMOND ISLAND-Caution area approx 5 mi S of Portland has been discont.
SCARBORO ARPT-Avail lgt acft only. Use N/S strip. Land within flagged area. (7-22)
WESTON FLD (MADISON)-Avail. emerg only. (8-29)
**WOLF'S NECK-Circular danger area approx 3½ mi E of Yarmouth has been discont.

MARYLAND

**ANDREWS FLD (CAMP SPRINGS)-RADIO-Army GCA sys operates cont during IFR; operates 0800 to 1700 daily and on 30 minutes req 1700-0800 CFR. (10-15)
★BALTIMORE MUN. ARPT.-Two-way rdo req bet sunset and sunrise. (10-20) See page 76. No crash equip. Use rnwys, taxi strips only-other areas soft. 2 cranes 20 and 40' high operating approx 250' S, SW of Rnwys 32, 27. 80' crane 800' N of N/S rnwy mrkd. Const, equip. on fld. E/W rnwy closed. Connecting taxiway between ends of S end N/S rnwy and SW end NE/SW rnwy closed. (10-26)
BELTSVILLE OLF-Closed to civil. acft except in emerg. (7-31)
EDGEWOOD ARSENAL FIELD-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STA OR IN EMERG OR PRIOR PERMISSION FROM CO. Closed Sat and Sun. Operates Mon thru Fri 0800 to 1600. Approach fld N of Penn. RR. High alt bombing E and S. Stay on concrete. (2-20)
ERCO ARPT (RIVERDALE)-Gen. fld const, however, one strip always avail. (9-20)
GLENBURNIE-WHIPP ARPT (GLENBURNIE)-Avoid flagged area-equip. (10-5)
HAGERSTOWN ARPT-Acft parked on hangar and factory apron, also along W bndry of fld just W of the N end of the N/S rnwy and N of the W end of the E/W rnwy. Use ctn in landing and taking-off in area off rnwys. (9-20)
LEE ANNAPOLIS ARPT (ANNAPOLIS)-N/S rnwy closed (const). NE/SW rnwy and black-topped taxiway avail.-unsuitable for acft heavier than twin-engined type. (10-8)
MARTIN ARPT (BALTIMORE)-First 1500' Rnwy 14 closed. Equip. all rnwys. (9-10)
MEEKINS NECK-RADIO- FM signals on NE course of Patuxent River Navy range, weak. (1-12)
PATUXENT RIVER NAS-Taxi strips adj and parallel to Rnwy 13-31 between Rnwys 2-20, 6-24 closed. Ditches, equip. adj taxiway parallel to Rnwy 2-20, ditches adj Rnwy 9-27, mrkd. Equip. on fld. Rnwy 9-27 being repaired. (10-24)
PHILLIPS FIELD(ABERDEEN)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. Equip on fld. Ltd svcg. No maintenance or RON. Closed Sats., Suns. Rnwy 4-22 closed. Approach fld from N only, fly heading of 200° from Aberdeen to fld. Avoid area 1500 yds S of fld; firing up to alts of 25,000'. No 91 oct. Closed to very heavy type acft. (7-30)
SCHRON ARPT (GREENBELT)-SE end NW/SE rnwy under const, mrkd. Use only rnwy pavement and taxi strips. (9-24)
STEVENS ARPT (FREDERICK)-150' width of both strips graded and seeded-temp unusable. (9-9)
WEBSTER FIELD (PRIEST POINT)-Blue and white checkered flag flown on Opers Bldg during daylgt hrs when twr not manned. (2-6)

MASSACHUSETTS

BARNES ARPT (WESTFIELD)-Oper of arpt bcn days only indicates scheduled airlines in vcnty arpt. Acft proceed with ctn when bcn lgtd. Ctc Westfield Radio for lgts. (8-4)
**BEVERLY CGAF-Change name to Beverly Arpt. (10-24)

BOSTON-RADIO-Soon, FM will be comm at Dedham, Mass located at lat 42-15-59, long. 71-10-07, on SW course 14.4 mi from range sta. Ident, two dots, three dashes (. . - - -) Bear. and dist, range sta to FM: 238°, 14.4 mi. When Dedham FM is comm, ident of Franklin, Mass FM will be changed to three dots three dashes (. . . - - -) (10-8)
BOWLES ARPT (AGAWAM)-High grass. Ltd maintenance. (6-6)
BROCKTON ARPT-E/W strip closed (const). N/S strip under const-avail with ctn. (6-4)
BROOKFIELD ARPT-Rough and steep. (7-22)
CAPE COD BAY-Wire cable 35' above high tide extending between wooden twr and fish processing plant has been established approx 5 mi SE Provincetown at lat 42-01-00, long. 70-05-30, extending 1000' seaward from shore of Cape Cod Bay.
CRAFTON ARPT (NORTH CRAFTON)-Avail lgt acft. Heavy acft use ctn. Avoid W, SW portions of fld. (6-15)
LAWRENCE ARPT- At ngt use rnwys for landing and taking off. (3-23)
LOGAN ARPT (BOSTON)-Landing and dockage fees in effect as follows: Acft under 10,000 lbs $3.00; more than 10,000 lbs and less than 27,000 lbs. $6.00; 27,000 lbs or over $10.00. Passenger planes shall pay in addition to above $1.00 per enplaning passenger. Freight, cargo and express planes shall pay in addition $6.00 per day or fraction thereof beginning at time of landing. Private or personal planes shall pay $1.00 when landing. All trans pilots must register at office of Arpt Manager and pay fees. Pilots will be denied clearance until fees are paid. All acft must be equipped with operating 2-way radio. (9-26) Closed to B-17 and all Army tricycle gear type acft-use Bedford AAF. Army temp inactive-civil. facs. Range lgts inop. Equip. on fld. Mercury arc vertical beam NW end new temp NW/SE rnwy-used intmtly day, ngt. Floodlgts and wind tee rmvd. Equip. on perimeter of fld. New 5900' Rnwy 15-33 and Rnwy 4-22 avail. Rnwy 16-34 closed. NE 100' Rnwy 7-25 unsafe. Ditches N side Rnwy 15-33 midway between ends, mrkd. 100' floating derrick SW end Rnwy 4-22, mrkd. New hangar being erected SW corner of old fld, lgtd. (9-26)
**MERRIMACK VALLEY SEAPLANE BASE (METHUEN)-Will hereafter be carried under Lawrence. (10-21) See page 144.
MYRICKS ARPT-Wires on S end N/S strip. (7-13)
OTIS NAAS (FALMOUTH)-Use in emerg only (caretaker status - no facs).
PITTSFIELD ARPT, SITE 38, AZ-EW-Land according to wind sock. (8-27)
REVERE ARPT-Const on seaplane base 1000' N of arpt. Booms day, ngt. (10-12)
SOUTH WEYMOUTH NAF-50' lgtd antenna pole 2200' from S edge landing mat. (6-25)
SPRINGFIELD ARPT-Lgts inop. (6-24)
SQUANTUM NAS-Unlgtd 100' boom on lighter at bndry due W between Rnwys 2 and 8. Equip. at bndry. Fld avail, 0800 to 30 minutes prior to off. sunset. (9-27)
STEVENS FLD (NORTH ADAMS)-Avail. Only lgt acft. (10-12)
★WESTOVER FLD (CHICOPEE FALLS)-RADIO-AACS, ground to air stn in operation on 4220 kcs, 116.1,137.88,140.58 mcs voice; 3175.5,6475 kcs CW. 2890 kcs voice freq inop. Army ILS sys lclzr, channel "Y" temp inop. (10-28)
FLD: These data rcvd too late for deletion of ⓪ symbol. (10-28)

ABRAMS ARPT (GRAND LEDGE)-Hangar being const. N/S, E/W strips newly seeded. (6-20)
ADRIAN CITY ARPT (ADRIAN)-W side fld being gradded (stakes, flags), Extreme ctn in landing all strips except NE/SW strip. (3-18)
ANN ARBOR ARPT-Use rnwys only. Taxi strips being widened, apron and parking areas being enlarged. Equip. on fld. (6-14)
BAKER'S FIELD (PORT HURON)-Use strips only. (6-25)
BISHOP ARPT (FLINT)-Use rnwys only when turf soft. Lgt acft use turf adj left side of concrete. Unmrkd acft parked on fld within 500' of bldgs. 160' water twr under const 1-1/4 mi NE, unmrkd. (8-15)
CALVIN CAMPBELL MUN ARPT (INDIAN RIVER)-Emerg use only. (6-24)
CAPITAL CITY ARPT (LANSING)-Use only rnwys, new N/S strip. Strip closed ngts. Equip. on fld days-acft parked N side fld E of apron. (9-20)
DETROIT CITY ARPT-Inbound acft required to have radio receivers. (10-22)
DETROIT NAS-Closed 1700 to 0800. (9-14)
DR. HAINES FLYING FIELD (THREE RIVERS)-Sides and ends of strips soft. (5-10)
EMMET CO. ARPT (PELLSTON)-Avail. all acft days. (9-24)
FITCH H. BEACH ARPT (CHARLOTTE)-Caution on taxi strips. (5-10)
**FLAT ROCK ARPT-Name changed to Nan-Bar Arpt (Flat Rock) (10-9) See page 37.
FORD ARPT (DETROIT)-CLOSED. Avail emerg use only. Use rnwys only. (8-14)
GLADWIN ARPT-40 x 60' unlgtd hangar NW corner fld. (9-27)
**GRAND RIVER ARPK SEAPLANE BASE (COMSTOCK PARK)- New base. Lat 43-01, long 85-40. (9-27) See page 143.
JAMES CLEMENTS ARPT (BAY CITY)-Closed ngts. Heavy acft use rnwys only.
**JAMES CLEMENTS SEAPLANE BASE (BAY CITY)-New Base. Lat 43-33, long 83-55.143
**JAY BEE SEAPLANE BASE (ST. CLAIR SHORES)-New Base. Lat 42-29, long 82-52. (9-27) See page 143.
JEWETT ARPT (MASON)-Strips mrkd with yellow mrkers. Plowed areas unusable, (rough). (7-3)
KELLOGG FIELD (BATTLE CREEK)- Equip. on fld. (6-2)
KINROSS AAF-Temp inactive. No facs. (See Special Notice re use).
**LAKE ANTOINE SEAPLANE BASE (IRON MOUNTAIN)-New base. Lat 45-50, long 88-03. (9-27) See page 143.
LAPEER ARPT-Hangars under const. Use strips only. E/W, N/S strips being widened. (7-13)
LEACH AERO SERVICE ARPT (HARTFORD)-E/W strip avail., bal fld under const. (3-9)
LINDBERGH ARPT (KALAMAZOO)-Avail. ngts in emerg. All landings made in accordance with wind tee lctd midway between NW end NW/SE rnwy and N end N/S rnwy. (6-27)
MACKINAC CO. ARPT (ST. IGNACE)-Trucks, equip. on SE side fld. (9-20)
McKINLEY ARPT (FRASER)-Closed except to lgt acft in dry weather, soft. (4-26)
**MILLER ARPT (EATON RAPIDS)-New fld. Lat 42-30-45, long. 84-38-15. (6-25) See page 36.
MOUNT PLEASANT ARPT-Strips soft in wet weather. (3-16)
MUSKEGON CO. ARPT (MUSKEGON)-Use rnwys only-rough. (9-20)
**OLD MISSION SEAPLANE BASE-New base. Lat 44-58, long 85-29. (9-27) See page 143.
OSCODA AAF-Use rnwys, taxi strips only. Temp inactive. No facs. (See Special Notice re use).
**OSTRANDER'S FOREST INN SEAPLANE BASE (CURTIS)- New Base. Lat 46-14, long 85-45. (9-27) See page 143.
OTSEGO COUNTY ARPT (GAYLORD)-Const-usable with ctn. (5-16)
PRICKETT FLD (SIDNAW)-Unusable-under const. (6-25)
RACO AAF-Temp inactive. No facs. (See Special Notice re use).
ROMULUS AAF-RADIO- Army ILS (CAA type) less glide path, inop. (8-30)
SAGINAW ARPT-Constructing new hangar S side of fld. (8-26)
ST. CLAIR CO. ARPT (PORT HURON)-Use strips only. (9-26)
SAULT STE MARIE ARPT-Loose gravel on N/S rnwy. Use rnwys only. (9-20)
STINSON ARPT (WAYNE)-Closed to trans acft. Const sides N/S rnwy. (7-10)
TRAVERSE CITY ARPT-N/S rnwy lgts, obst lgts S end N/S rnwy inop. (10-15)
TWIN CITY ARPT-ROSS FLD (BENTON HARBOR)-Use rnwys only. (.-26)

MICHIGAN-Continued

WASHTENAW ARPT (ANN ARBOR)-Use rnwys only. Avail days only. (8-14)
WILLOW RUN ARPT (YPSILANTI)-Equip on fld. Trucks on NE/SW taxi strip.(6-15)
YPSILANTI ARPT-Use strips only. (4-1)

MINNESOTA

APPLETON ARPT-Use rnwys, taxi strips only. (6-26)
BENSON ARPT-Only NW/SE strip avail, bal fld under const. (6-16)
DECKER ARPT (AUSTIN)-Acft over 3500 lbs use ctn. (6-28)
DETROIT LAKES ARPT-CLOSED (const). Will be avail. soon. (5-24)
FARIBAULT ARPT-Closed to all acft weighing over 5000 lbs. (5-16)
FERGUS FALLS ARPT-Temp closed (const). (6-17)
FLYING CLOUD ARPT (MINNEAPOLIS)-Const. (12-17)
MANKATO ARPT-Use strips only. (5-16)
MINNEAPOLIS-Lgt atop Foshay twr will be discont soon. (10-11)
MONTEVIDEO ARPT-Const. Temp rnwys avail. Equip. on fld intmtly. (10-11)
ORTONVILLE ARPT-Temp closed (const). (6-20)
PARK RAPIDS ARPT-Temp closed (const). (6-17)
ROCHESTER ARPT-Equip. on infld. SW 800' NE/SW rnwy closed (repairs).(10-1)
ST. PAUL ARPT-Use rnwys, taxi strips only. (8-1)
THIEF RIVER FALLS ARPT-Const. Fld closed to heavy acft. Portion old E/W rnwy, most of N/S rnwy avail lgt acft only. (8-27)
UNIVERSITY OF MINNESOTA ARPT (NEW BRIGHTON)-E/W strip, N end N/S strip rough.
VICTORY ARPT (MINNEAPOLIS)-Surplus Acft Sales Center - parked acft.
WHITNEY MEMORIAL ARPT (ST. CLOUD)-Ctn, glider opers. (6-19)
WILLIAMSON-JOHNSON ARPT (DULUTH)-Closed ngts. (8-1)
★WOLD CHAMBERLAIN FLD (MINNEAPOLIS)-RADIO: AACS, Rad to air stn nov operates on 4765, 2936, 4630, 2862 kcs voice. 4595, 8200 kcs CW. Oct 9, oper commenced on 116.1, 137.88, 140.58 mcs. (10-22) Army DF stn oper temp suspended. (2-14) FLD: Crane with 100' boom operating NE side fld days, mrkd. Lgt acft use grass areas; heavy trans acft use rnwys. 3' trench, 10' long, 3' wide at W edge and E edge of N/S rnwy and at NE/SW, N/S rnwy intersection, mrkd. Equip. on rnwys, taxiways and on W side taxiway and loading ramp adj to hangars and Terminal Bldg W side fld 0800 to 1700 daily.
WORTHINGTON ARPT-New fld 1/2 mi ENE unusable. (6-22)

MISSISSIPPI

AUGUSTINE FLD (JACKSON)-Use strips only-parked acft.
COLUMBUS AAF-Temp inactive. No facs. (See Special Notice re use). Use rnwys only. (8-19)
**FOREST INT, SITE 46, FV-AG-Three bndry lgts SE side fld replaced with flush type lgts and lotd 260' NW of old lctn and one conventional type bndry lgt with cone installed 1240' N of twr, 280' W of present bndry lgt, being in line with the three flush lgts. (10-22)
GREENWOOD ARPT-Use rnwys only - sodded portion soft. (9-9)
GRENADA ARPT-NE/SW rnwy closed. (6-28)
GULFPORT MUN. ARPT-Closed ngts. Fld lgts inop. Ltd svcg. Avoid flying over area directly off SW corner. Entire sod fld avail. (5-27)
JACKSON ARPT-Rnwys 2-20, 16L-34R closed until approx Nov. 13. Bndry lgts NW end Rnwy 11, SE end Rnwy 34 discont. Red guide lgts installed 100' from Rnwy 11-29. (10-23)
JACKSON CO. ARPT (PASCAGOULA)-Trans acft use rnwys only - drainage grills under grass. (5-17)
KEESLER FLD (BILOXI)-Use rnwys only. Floodlgts avail. on req. Ngt opers rstd to acft with 2-way radio. 20' boom NE corner NE/SW rnwy, mrkd. (10-17)
KEY FLD (MERIDIAN)-Radio Stn WTOK erecting 180' twr 5 mi NE, lat 32-22-46, long. 88-40-04. (9-7)
LAUDERDALE CIVIL ARPT (MERIDIAN)-Cattle on fld. (6-6)
LAUREL AAF-Army temp inactive - civil. facs.

MISSISSIPPI-Continued

McCOMB ARPT-East 1/3 of E/W strip unusable. (9-30)
WINONA ARPT-Use N/S strip only. (3-25)

MISSOURI

BUTLER ARPT-NW/SE, NE/SW strips being lengthened, all strips being widened.
**CHARLESTON ARPT-New fld. Lat 36-54-55, long. 89-20-00. (4-4) See page 104.
CHILLICOTHE INT, SITE 7, KC-CG-Use rnwy only during wet weather. Sod areas slightly rough. (10-21)
COLUMBIA ARPT-Equip on fld days. Heavy student traffic. Ngt flying 3 mi radius fld. Sod at rnwys sides soft when wet. Traffic pattern 800' on down-wind leg. Blinding 20 to 30 million candle pwr ceilometer 1000' E of rot. bcn. 200' twr being const 1 mi SE, temp obst lgtd. (8-29)
**DAVIESS CO. ARPT (GALLATIN)-New fld. Lat 39-54-30, long. 93-59-00. (5-12) See page 32. Use ctn until further development. (5-12)
HARRIS FLD (CAPE GIRARDEAU)-Use strips only - parked acft.
HARVEY PARKS ARPT (SIKESTON)-Use rnwys only - parked acft.
INDEPENDENCE ARPT-N/S strip avail., bal fld closed(grading).(6-28)
JEFFERSON CITY ARPT-E/W, N/S strips avail. lgt acft only - sod soft when wet. NE/SW strip avail. twin-engine acft not exceeding weight of C45-C78.
JOPLIN ARPT-Obst lgts NE end NE/SW rnwy inop. (10-10)
KANSAS CITY ARPT-RADIO: Effect Sept 30 lclzr glide path and bndry marker will be inop for indef period (const). FLD: CLOSED TO ALL ARMY ACFT EXCEPT IN EMERG-USE FAIRFAX FLD. Army acft rstd from refueling except in extreme emerg. Equip. on fld. Floodlgts on req. Neon approach lgt sys discont until approx Mar 3, 1947, due to maj const N end arpt. Tetrahedron uncontrollable. Pile drivers and derricks along S portion fld in venty of N/S rnwy-lowered ngts. (10-25)
KIRKSVILLE ARPT-E/W rnwy under const, unmrkd. (7-17)
LAMBERT FLD-ST. LOUIS ARPT (ST. LOUIS)-RADIO: Low clearances observed in blue and yellow sectors of ILS. (10-8) FLD: Surplus Acft Sales Center - parked acft. Closed to non-radio equipped acft. Equip. on fld and ramp. Const E, SE bndry fld. Taxi strip between Rnwys 6 and 34 SW quadrant closed. Navy facs closed 1700 to 0800 except when Opers Officer notified 2 hrs prior to 1700. (10-21)
LEBANON INT., SITE 54B, AQ-LS-Equip. on fld. (8-15)
McFARLAND FLYING SERVICE (SPRINGFIELD)-Right traffic all strips. (10-1)
ROSECRANS FLD (ST. JOSEPH)-Closed ngts. Bcn inop. (9-3)
**ROSS ARPT (ST. LOUIS)-New fld. Lat 38-42-15, long. 90-13-30. (7-24) See page 141.
SEDALIA (KNOBNOSTER)-Temp inactive - no facs. (See Special Notice re use). Use rnwys only.
SPRINGFIELD-GREENE CO. ARPT (SPRINGFIELD)-Use rnwys, taxi strips only - bal fld rough. Blinding 30 million candle pwr ceilometer projector in oper on E bndry. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23)

MONTANA

BAKER ARPT-2' gully across NE/SE strip 1200' from SE end, across E/W strip, 400' from E end. (6-5)
**BIG TIMBER INT., SITE 13A, HL-TWIN CITIES-Correct location: Lat 45-48-15, long. 109-58-45. (9-19) See page 8.
★BILLINGS ARPT-RADIO: Oct 21, CAA ILS comm and flgt-checked. See page 8.
** FLD: Inst approach lgts comm and exten 1500' E of E/W rnwy. (10-22) See page 8. Lgtd lclzr bldg 1100' from W end E/W rnwy, lgtd glide path bldg 300' N of E/W rnwy adj E bndry. Army acft rstd from refueling except in extreme emer . (10-22)
BUTTE ARPT-Blinging 30 million candle pwr ceilometer 267' E of center of N/S rnwy. (9-11)
CHINOOK ARPT-Avoid using when wet. (9-8)

MONTANA-Continued

COLUMBUS ARPT-E section arpt from middle of fld closed (const). Equip. on fld, unmrkd. (6-22)
CUT BANK ARPT-Bcn inop. Ctc lgts avail. on req. (10-26)
**GARDINER ARPT-New fld. Lat 45-03-00, long. 110-42-45. (7-18) See page 5.
★GREAT FALLS AAF-RADIO: Army ILS decomm. (10-28) These data rcvd too late for inclusion in "ANRA" and Arpt Directory. AACS, gnd to air stn transmits on and gds 4765, 4697.5, 2862 kcs, 116.1, 137.88, 140.58 mcs voice; 4595, 8200 kcs CW. Gds 8280, 500 kcs voice. Operates cont. (10-28) FLD: Runwy lgts 75' in from outer edge of runwy shoulders - use 150' center strip. Runwy 16-34 closed. (9-27)
HELENA ARPT-RADIO: About Nov 15, CAA twr will be reactivated and consolidated with the Airway Communication Stn into a single fac operated from the twr lctn. Control of air traffic within the arpt traffic zone will be during daylgt hrs. During hrs of darkness advisory services will be furnished acft equipped with two-way radio. (10-25) FLD: Runwys rstd to acft under 30,000 lbs. Equip. on fld. Blinding 30 million candle pwr ceilometer 150' W of fld adj middle portion of W bddry. (10-21)
LEWISTOWN ARPT-Use runwys only. (7-23)
MILES CITY ARPT-Bndry lgts inop. (9-20)
MISSOULA CO. ARPT (MISSOULA)-NE/SW runwy closed. NW/SE runwy closed to class B-17 or heavier acft. (6-23)
**MOORE ARPT-New fld. Lat 46-58-45, long. 109-40-30. (7-30) See page 8. S end N/S strip rough. (7-30)
POLSON ARPT-Usable with ctn. (7-19)
POPLAR ARPT-Dangerous when wet. (9-6)
SIDNEY ARPT-Ends of strips in cultivation.
VALLEY CO. ARPT (GLASGOW)-NNE 1000' NNE/SSW runwy dangerous-avoid using.
WOLF POINT ARPT-Hay stacks on fld. (9-10)

NEBRASKA

BEATRICE ARPT-Exten const. (5-24)
CLAY CENTER ARPT-Use strips only. (5-19)
CLEAR RIDGE ARPT (OMAHA)-Use strips only. (9-26)
ELGIN ARPT-Haystacks on fld. (5-24)
FREMONT ARPT-Equip., stakes on fld. (7-28)
GRAND ISLAND AAF-RADIO: Army ILS temp inop. (9-27) FLD: Only 73, 100 oct avail. (8-20)
**HASTINGS SKY RANCH ARPT (HASTINGS)-New fld. Lat 40-34-15, long. 98-27-15. (5-18) See page 29.
★KEARNEY AAF-RADIO: Army twr decomm. (10-24) FLD: No lgts. (10-23) See page 29. CLOSED TO ALL ARMY ACFT EXCEPT ON OFF. BUS. OR IN EMERG. NO FACS. Use runwys, taxiways only. (10-23)
LEE BIRD FLD (NORTH PLATTE)-Army acft rstd from refueling except in extreme emerg. (10-9)
LINCOLN ARPT-Prkg acft taxi and park on ramp S of Admin Bldg - stay clear of Airline traffic. (9-25)
McCOOK AAF-Temp inactive. No facs. (See Special Notice re use). Use runwys only - shoulders extremely soft.
OMAHA ARPT-S taxi strip avail. only single engine acft. Use runwys only. Runwy 17R-35L avail. lgt acft. (10-15)
SIDNEY INT., SITE 50, SL-CH-E/W strip avail., bal fld rough. (9-20)

NEVADA

BATTLE MOUNTAIN-RADIO: Courses gnd-checked only, SW course 3° S, bear. 46°. (10-25)
BATTLE MOUNTAIN FLIGHT STRIP, SITE 35, SP-SL-Use paved surfaces only - shoulders soft. Equip. on fld days. NE half NE/SW runwy closed ngts - 40' unlgtd obst 800' NE of NE end NE/SW runwy. (10-28)
BOULDER CITY ARPT-SW end NE/SW runwy unusable. (10-8)
DOUGLAS-TAHOE ARPT (MINDEN)-S 700' N/S taxiway closed. (4-2)
FALLON ARPT-Closed except in emerg. (9-27)
FERNLEY (Site 22, San Francisco-Salt Lake)-Rough with soft areas due wind erosion, soft sand, mrkd. (7-10)
★GABBS-RADIO: Stn unmanned 2300 to 0700. (10-17)
★GOODSPRINGS-RADIO: FM comm Oct 15, at lat 35-50-22, long. 155-26-00. See Page 53.
HUBBARD FLD (RENO)-Equip E, W ends Runwy 7-25. (9-17)
INDIAN SPRINGS ARPT-Temp inactive. No facs. (See Special Notice re use).
LAS VEGAS-RADIO: Courses aligned by gnd check only. (10-17) VHF range will be comm soon at lat 36-11-06, long. 115-05-48. Bear. and dist, sta to McCarran Fld: 24°, 4.2 mi. Freq. 109.1 mcs. Ident "LQ" (. - . . - - . -) Courses: Visual, 29°, 209° Aural, 119°, 299°. Mag. Var 16° E. Simult voice channel and receiving watches (3117.5 kcs, 116.1, 131.7 mcs) avail. 24 hrs daily. Stn class: VAR-VDT (10-8)
LAS VEGAS AAF-RADIO: About Nov 1, the glide path component of CAA ILS will be comm on 335 mcs. Will furnish a 2.5° glide path angle. (10-26) FLD: No weather foredasting. Clearance by AFS. Opers and ltd maintenance facs avail. 0800 to 1700 Mon thru Fri only. Obst bcns No. 3 and 4 atop Sunrise Mtn inop. (9-6)
RENO AAB-Temp inactive. No facs. (See Special Notice re use)
TAHOE SKY HARBOR ARPT (RENOA)-Trans or inexperienced pilots avoid using.
** (8-5) New fld. Lat 38-58-00, long. 119-56-30. (8-5) See page 52.
TONOPAH-RADIO: Stn unmanned from 2400 to 0800 daily. (7-31)
TONOPAH AAF-RADIO: VHF gnd to air stn inop. Stn unmanned for indef period. (10-24) FLD: Temp inactive. No facs. (See Special Notice re use).
WILLIAND FLD (ELY)-Bcn, bndry lgts along N/S runwy inop. (10-3)

NEWFOUNDLAND

★BUCHANS-RADIO: Range now gds 3105, 3117.5, 4495, 6210. Weather bdcast; 13 & 43: Buchans, Stephenville, Gander. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15)
★GANDER-RADIO: Range now gds 3105, 3117.5, 4495, 6210. Weather bdcast 10 & 40: Stephenville, Buchans, Gander, Torbay, Botwood. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15)
★ST. ANDREWS-RADIO: Weather bdcast 13 & 43: Sydney, St. Andrews, Stephenville. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req.
★TORBAY-RADIO: Weather bdcast 13 & 43: Gander, Torbay. Stns Montreal and eastward will bdcast the weather in UCO (Plain) on req. (9-15)

NEW HAMPSHIRE

BOIRE FLD (NASHUA)-Wind cone atop brick hangar bldg used to indicate wind conditions. In calm air conditions, take-offs and landings will be made toward the NW. (7-15)
BRATTLEBORO-HINSDALE ARPT (HINSDALE)-Use only N/S strip unless familiar with fld. (6-4)
★GRENIER FLD (MANCHESTER)-RADIO: Army twr and ILS decomm. (10-24) FLD: No lgts. (10-23) See page 45. CLOSED TO ALL ARMY ACFT EXCEPT ON OFF. BUS. OR IN EMERG. NO FACS.

NEW HAMPSHIRE-Continued

HOOKSETT LAND & SEAPLANE BASE (HOOKSETT)-Avail. days only. (5-9)
LAKES REGION ARPT (WOLFEBORO)-CLOSED (const). Grass strip avail in emerg.
LANCASTER AIR PARK-CLOSED. (4-25)
LEWIS FIELD (LITTLETON)-CLOSED (const). (4-23)
NEWPORT ARPT-60' trees N end N/S strip. (10-9)

NEW JERSEY

★ATLANTIC CITY-RADIO- Ident. of VHF range (operating for test purposes) changed to "DX". (10-19)
ATLANTIC CITY NAS-Avail. 0700 to 1530 Mon thru Fri. ETA prior to 0700 and after 1530 requires previous arrangement with Operations Officer. (7-11)
BENDIX-RADIO- Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.
BOULDBROOK-RADIO- Tests of exper equip. will be conducted on freqs of 108.5, 109.3, 110.1 mcs.
CALDWELL-WRIGHT ARPT (CALDWELL)-5' trench 2-1/2' wide 200' SE of NW/SE rnwy. (9-17)
CAPE MAY CGAS- Closed to trans acft except in emerg (caretaker status-no facs.
CARTAWAT-Beacon, side lgts inop on twr Radio Sta WOR. (7-24)
**COYLE ARPT (CHATSWORTH)-Correct location: Lat 39-48-45, long. 74-25-30.(8-2) Avail. emerg use only. (8-2)
**EAST HANOVER ARPT-Lat 40-50-15, long. 74-20-45. (8-29) See page 80.
FORT DIX-Artillery range at Fort Dix. When firing in progress, special traffic patterns are used.
FORT DIX AAB (WRIGHTSTOWN)-Temp inactive. No facs. (See Special Notice re use).
HEIGHTSTOWN ARPT & AIR SERVICE ARPT (HEIGHTSTOWN)-Under const. (3-12)
LAKE SUSQUEHANNA ARPT (BLAIRSTOWN)-Temp fence erected at SW bndry fld. (8-6)
**LAKEWOOD AHPT-New fld. Lat 40-03-30, long. 74-11-00. (10-15) See page 80. N/S strip under const. (10-15)
**MARLTON-MEDFORD ARPT, INC. (MEDFORD)-Will hereafter be carried under Marlton. (3-12) See page 77.
**MILLVILLE ARPT-Bcn, 24" rot., bndry, range, ctc, obst lgts. (8-1) See page 76
NASSAU ARPK (CLARKSVILLE)-100' drainage ditch N side NNW/SSE strip, mrkd. (3-27)
NEWARK-RADIO- Multiples all courses.
★NEWARK ARPT-RADIO- Army ILS lclzr operating cont, glide path and mrkr bcns avail. on req. (10-24) FLD: To reduce the noise of acft flying over Newark residential areas and to avoid tall bldg section following must be complied with: 1. Increase the rate of climb as much as practical. 2. North-bound or East-bound acft make left turn as soon as practical when taking off to SW. 3. Make a half left turn as soon as practical when taking off to W. 4. Make a half right turn as soon as practical when taking off to N. Pass at least 500' to E of gas tanks lctd in Harrison when making a southerly direction approach to the N/S rnwy. 5. Whenever practical the arpt traffic controller will suggest the use of rnwys which will permit acft to avoid passing over residential and tall bldg areas. (9-7) Closed to all acft without 2-way radio. Landing fee for itinerant acft now in effect based on weight classification. All acft must taxi to the City of Newark Registry Office NW side fld and register. E 800' Rnwy 28 rough. Pilots are to make approach for numeral on Rnwy. No hangar space for Army acft. S 1800' from extreme end pavement Rnwy 1 closed until approx Dec. 15. 75' lgtd pile driver approx 1000' W of Rnwy 10 and 300' S of centerline of Rnwy 10.(10-13)
RED BANK ARPT-E end E/W rnwy under const. Const beginning at the hwy and proceeding W 1200' to the intersection of the N/S rnwy. Area mrkd. (10-9)
TETERBORO AIR TERMINAL (BENDIX)-Taxiway S end of Rnwys incomplete. Dirt strip adj to NE/SW rnwy closed. Observe instructions for taxiing from twr.

NEW JERSEY-Continued

Const on N and S end of present rnwys. Lgt acft operating from fld. (10-26)

NEW MEXICO

ALAMOGORDO-AAF-RADIO- Army ILS (CAA type)inop. (8-7) FLD: Opers and svcg avail. 0730 to 1600 Mon thru Fri only. Rnwy. 3-21 lgts inop. (7-19)
ALBUQUERQUE ARPT-Used by RFC. Avail. only for delivery surplus acft this fld, prospective purchasers of surplus acft or parts, or in emerg.
ANTON CHICO INT, SITE 78A, LA-AQ-No fuel. (5-30)
★CLOVIS AAF-RADIO-Army twr and ILS decomm. (10-24) FLD: No lgts. (10-23)
**See page 57. CLOSED TO ALL ARMY ACFT EXCEPT ON OFF. BUS. OR IN EMERG. NO FACS.
CONDON FLD-See notice under White Sands Proving Ground, N.M.
CRUCES FLD, SITE 42, EO-PU (RATON)-CLOSED (const). (4-29)
DEMING ARPT-Closed-emerg use only.
DEMING FLD (CENTER)-Closed-emerg use only.
DEMING FLD (SOUTH)-Closed-emerg use only.
EL MORRO-RADIO-Soon range freq will be changed to 353 kcs. (10-1)
GALLUP ARPT- E/W rnwy closed. (5-4)
GALLUP CITY FLD-ENE/WSW strip under const. (5-7)
HOBBS AAF-Rnwys 3-21, 12-30 closed. (10-16)
HOBBS MUN. ARPT-Allway landing area rough. Heavy acft use rnwys only. (7-21)
JULIT FLD (STRAUSS)-Avoid E 500' E/W strip. Fld soft when wet, dusty when dry. Closed to cross-country acft when wet. S half E/W strip being widened.(5-26
KIRTLAND FLD (ALBUQUERQUE)-RADIO- About Nov. 4, CAA twr freq will be changed to 278 kcs., 118.7,126.18 mcs. (10-2) CAA ILS will be comm soon serving the N/S rnwy with approach from the S. Mag heading for landing: 349° Lclzr transmitter lctd 1030' N of N end N/S rnwy, freq 110.3 mcs, ident "AB" (. - - . . .) Glide path transmitter lctd 1500' N of S end N/S rnwy, 400' W of centerline, freq 335 mcs. Two marker beacons: outer marker lctd 4.32 mi S of S end N/S rnwy, keyed two dashes per sec; middle marker lctd 3400' S of S end N/S rnwy, keyed with alternate dots and dashes.(10-2) AACS, ILS and DF (HF) facs temp suspended. (6-25) FLD: Blinding 25 million candle-pwr ceilometer projector installed 1000' N of Terminal Bldg. (6-5)
LAS VEGAS ARPT-Use rnwys only - bal fld unsafe. (5-30)
MAGDALENA MUN ARPT-Large rocks, holes scattered over strips. Water across strips. Use ctn after rain. (5-6)
**OTTO INT, SITE 73A, LA-AQ-Redesignated as Site 74, LA-AQ. Char signal flash (. . . .). (10-24) See page 57.
ROSWELL-Inten inst train. on Roswell Radio Range below, above, and in overcast. Acft inbound to Roswell or operating in vicinity under IFR, contract Roswell Radio for instructions.
ROSWELL AAF-Ltd parking, svcg facs. (10-25) These data rcvd too late for deletion of ⓞ symbol.
SANTA FE ARPT, New-Rnwy lgts inop. Army acft rstd from refueling except in extreme emerg. Crash and fire fighting equip. avail. 0800 to 1600 Mon thru Fri only. (9-23)
WEST MESA ARPT (Albuquerque)-Surplus Acft Sales Center-parked acft.
WHITE SANDS PROVING GROUND-All AAF acft intending to land at Condon Fld, White Sands Proving Ground will be cleared to Biggs Fld, Tex, and will obtain permission and instructions from Biggs Fld Opers before landing at Condon Fld. When Condon Fld is "Arpt of first intended landing", this will be indicated on AAF Form 23 and the above permission and instructions obtained from Biggs Twr by radio prior to landing. Only acft under pertinent orders or off. bus. with White Sands Project will land at Condon Fld. (10-14)

ALBANY AIRPORT-Equip. on fld intermittently. (6-20)
BUFFALO-RADIO: Range courses aligned by ground check only. (10-24)
BUFFALO ARPT-Acft entering and departing Buffalo traffic zone use ctn-new arpt 4000' NNE. 70' unlgtd smokestack W bndry fld between E/W and NE/SW rnwys. Rnwys and taxi strips mrkd with black flags for winter opers.(10-24)
**CARLL SKYPORT ARPT (COMMACK)-New fld. Lat 40-49-30, long. 73-17-45. (6-27) See page 80.
CHEMUNG CO. ARPT (ELMIRA)-Gliding and soaring activity over fld and vcnty. Lgts on req. Traffic gun displayed in front of main hangar during air carrier opers to control local traffic and at other times when circumstances make such practices consistent with safety. Equip. N and W of N/S rnwy days. (7-2)
CHEMUNG VALLEY ARPT (WAVERLY)-Right traffic when taking off or landing to the W and N. (9-20)
CLASON'S POINT-RADIO: Soon range will be comm at lat 40-41-11, long. 73-50-33. Freq. 209 kcs, ident. "LG" Bear. and dist, stn to La Guardia FLD: 222°, 3.2 mi. Sources will be: 42°,129°,222°,273°. Stn class will be: SBRAZ-VDT. VHF voice fac will transmit on 116.1 mcs. Stn will guard. 3105,4495,6210,3117.5 kcs, 116.1 mcs. Clason's Pt LOM will not be decommas previously advertised. A FM will be comm soon at New Rochelle, N.Y. at lat 40-53-17, long. 73-47-19, on NE course. Bear. and dist, range to FM: 42°, 5.6 mi. Ident one dash. Simultaneously, FMK will be comm at the New Rochelle, N.Y. FM site on 275 kcs, ident "N". These facs, outer marker, and outer compass lctr stn on CAA ILS at La Guardia Fld will be comm on a temp basis operating only when La Guardia Fld weather is ceiling unlimited and visibility ten mi or more to permit pilot familiarization with the new holding patterns and approach procedures which will be published at a later date in the "Airman's Guide" when fully developed and accepted.
FLOYD BENNETT FIELD NAS (NEW YORK)-Closed 1700 to 0800. (8-15)
FORT PLAIN INT, SITE 40A, GV-AZ-Unsafe heavy acft-soft. SE 700' NW/SE strip unsafe all acft, mrkd. (4-4)
GLOVE CITY ARPT (GLOVERSVILLE)-Right traffic pattern except when taking-off or landing to E. NE corner fld unusable, soft area mrkd. Closed to all acft above 250 horse pwr. (7-3)
HILTON AIRPORT-Use rnwys, taxi strips only, bal fld closed. (4-1)
HYLAN FIELD (ROCHESTER)-Use strips only - caution when wet. (5-18)
IDLEWILD ARPT-Temp pavement on Rnwys B-N/S and C-NE/SW being removed with trenches across rnwys presenting extreme hazard even in emerg. Not yet opened-const. (10-15)
ITHACA ARPT-Right traffic pattern in use. (8-3)
KINGSTON-ULSTER AIRPORT (KINGSTON)-ESE/ WNW strip closed. (3-20)
LA GUARDIA FLD (NEW YORK)-Soon the outer mrkr of CAA ILS will be relctd at lat 40-43-54, long. 73-55-50, lctd 4.4 mi SW of SW end NE/SW rnwy. Simultaneously outer compass lctr stn (to be lctd at new outer mrkr site) will be comm. Freq. 317 kcs, ident. "O". (9-13)
LA GUARDIA FLD (NEW YORK)-ARMY ACFT HAVING OFF. BUS. WITH HQ ATLANTIC DIV ATC, FT. TOTTEN, N.Y. SHOULD LAND AT MITCHEL FLD AND USE ATC OPER FACS THAT POINT. CLOSED TO ALL NAVAL ACFT EXCEPT THE FOLLOWING BECAUSE OF HEAVY TRAFFIC AND INSUFFICIENT SVCG FACS: Acft containing personnel on off. bus. or with Cmdr Eastern Sea Frontier or Hdqs 3rd Naval Dist when NOW or refueling services not required. Acft containing officers of flag rank shall not be forbidden fld. TRANS NAVY ACFT USE NAS, FLOYD BENNETT. Army temp inactive-civil. facs. Equip. between NW/SE rnwy and ramps N of Hangars 2 and 4. Pilots of all mil acft upon arrival check in base oper office and contact AFS,Fld ext 265. 10' high, 40' long obst 190(N of NE/SW rnwy.

lgtd. Dump trucks outer edges fld days, clear of all rnwys. Obst lgts atop localizer shack approach end Rnwy 22 and end Rnwy 4. 70' lgtd boom 4000' SE of NW/SE rnwy. 20' lgtd bldgs 300' E of NE end NE/SW rnwy. NE 1300' Rnwy 22 rough. Rnwy 4-22 closed until approx Nov 18-repairs. (10-18)
**LIVINGSTON MANOR ARPT-New fld. Lat 41-53-30, long. 74-49-00 (10-14) See page 44.
MacARTHUR FIELD (ISLIP)-RADIO: Priv twr operating on 278 kcs. Guards 3105 kcs. Operates 0900 to 1700, week days, can provide ngt and Sun service upon req if important. (2-7) FLD: Mobile inst landing units 20' high on all rnwys 500' from rnwy center line, lgtd ngts. Acft use ctn-unconventional flight test oper. (5-23)
MALONE-DUFORT AIRPORT (MALONE)-Land on rnwys or grass along side of rnwys. Taxi on hard surfaces. (7-26)
MASSENA-156' twr Radio Sta WMSA lctd 232°, 3.0 mi SW, temp lgtd with red lgts on top. Upon completion lighting facs will consist of 300 mm flash. beacon atop and four side lgts; two at 1/3 level, 2 at 2/3 level. (9-9)
MASSENA AIRPORT-Use rnwys, taxi strips only - turf rough. (6-11)
★MITCHEL FLD (HEMPSTEAD)-RADIO: Army ILS (CAA type) temp inop. (7-31) ARMY twr no longer operates on 136.98 mcs for local traffic. (10-28):FLD: Rnwy 18-36 closed. (7-17)
MONTGOMERY FIELD (U.S. MILITARY ACADEMY NO. 1)(MONTGOMERY)-CLOSED. (11-7)
NASSAU ARPT (HEMPSTEAD)-Fld not maintained. (6-28)
**NEW PALTZ ARPT-New fld. Lat 41-45-00, long. 74-06-00. (7-2) See page 44.
NEW YORK-SPECIAL NOTICE-RADIO: See Clason's Point Radio.
NEW YORK CITY-See Special Notice "Restriction on Flight of AAF Acft in New York City Area".
NIAGARA FALLS ARPT-Use rnwys, taxi strips only-soft spots along edges new E/W rnwy, mrkd days. Grass area S of mid E/W rnwy and E of N/S rnwy closed (tall stakes being driven into sod). Army acft rstd from refueling except in extreme emerg. Bndry, obst, wind sock and rnwy lgts avail. 2300 to 0700. (10-10)
PULASKI AIRPORT-Under const. Landing area being extended in all directions. (8-7)
REPUBLIC FIELD (FARMINGDALE)-RADIO: Priv twr operating on 371 kcs. Guards 3105,4495,6210 kcs. Operates days only. (2-15)
ROCHESTER AIRPORT-Use rnwys only (soft). No hangar space. Equip. on fld days. (5-19)
ROME AAF-Traffic alt 1500' MSL. Right traffic pattern. (7-15)
SALAMANCA ARPT-SPECIAL NOTICE: The Common Council of the City of Salamanca passed ordinance that any person violating traffic pattern, Federal and State regulations subject to a penalty of $100/ for each violation. Closed to heavy acft.
SALAMANCA ARPT-Right traffic pattern when landing and taking off to W-variable pattern to clear houses 1000' W of end of strip. (10-9)
SARANAC LAKE AIRPORT-Use rnwys, taxi strips only - turf rough. (6-5)
SCHENECTADY CO. ARPT (SCHENECTADY)-Equip. on N end fld. Trucks crossing N/S, NW/SE rnwys and taxiways. (10-3)
SCHOHARIE COUNTY ARPT (RICHMONDVILLE)-Right traffic pattern in use. (1-25)
SHERIDAN AIRPORT-WILLIAMSVILLE)-E/W rnwy under const. NE/SW avail. with caution. (5-21)
STEPHENTOWN-RADIO: FM to be relctd on E course of Albany, N.Y. range.
STEWART FLD (NEWBURGH)-Pilots unfamiliar with Stewart Fld let-down procedure will not be cleared this fld under actual inst conditions. Final approach under these conditions will be made on SW leg Steward Fld range only.(8-5)
SYRACUSE ARPT-Turf areas soft after heavy rains. (9-10)
TONAWANDA AIRPORT-NE/SW strip rough. Acft may land on either side of rnwy.
TROY ARPT-Bcn inop. (10-10)
UTICA ARPT-Bcn lgt burning but not revolving. (10-27)

NEW YORK

WALLKILL FIELD (U.S. MILITARY ACADEMY NO.2)(WALLKILL)-CLOSED. (11-7)
WATERTOWN ARPT-Lgts being installed. Land, taxi with ctn. Holes along rnwy edges. (8-1)
WESTCHESTER ARPT INC (ARMONK)-Const, tree removal equip on fld. (8-16)
WESTCHESTER CO. ARPT (WHITE PLAINS)-Const, excavation, equip. SW end NE/SW rnwy. Lgts inop due to repairs. 3 unlgtd 40' masts being erected off bndrys of fld approx 1000' SE of intersection of N/S and E/W rnwys. Equip on NE end NE/SW rnwy daily from 0700 to 1800. (10-8)
WINGDALE ARPT-Avail. lgt acft only-rough. (3-21)

NORTH CAROLINA

ASHEVILLE-HENDERSONVILLE ARPT (ASHEVILLE)-No ctc lgts installed on NW/SE rnwy. approach all rnwys with ctn, equip on fld. No radio facs. (1-7)
ATLANTIC MCAAF-Use in emerg only (caretaker status - no facs).
BALLOON FIELD NO. 1 (FORT BRAGG)-CLOSED. (11-20)
BOGUE MCAAF-Closed to all acft except in emerg (no facs). (7-11)
BROOKS ARPT (RED SPRINGS)-NNW/SSE strip soft, rough. (6-6)
BURLINGTON AIRPORT-CLOSED (equip.). (5-23)
CANNON ARPT (CHARLOTTE)-Surplus Acft Sales Center - parked acft.
CHERRY POINT MCAS-Const, equip. on rnwys. Rnwy lgts being repaired.(7-17)
DOUGLAS ARPT (CHARLOTTE)-Army temp inactive-civil facs.
EDENTON NAS-Use in emerg only (caretaker status - no facs).
ELIZABETH CITY CGAS-Stay on rnwys-shoulders soft, rough. Closed ngts from 1930 to 0730 except on prior req. All fld lgts inop. (9-13)
FAIRCHILD-CIVIL ARPT (BURLINGTON)-Use rnwys, taxi strip only.No fld facs. (3-29)
FORT BRAGG-Heavy firing is being conducted in all sections of Fort Bragg danger area up to 20,000 ft. All acft must avoid this area shown on Flight Planning chart 110 herein. Inten train. days with radio control target planes from fld 6 mi due E of N end Pope Fld. Acft will operate within circle of 4 mi radius from center of fld with max alt of 2000' taking off by catapult, landing by parachute.
GREENSBORO-HIGH POINT ARPT (GREENSBORO)-Both sides rnwy 32 to intersection soft, rutted. Use rnwys only. (9-9)
**MANTEO ARPT-Name changed to Roanoke Island Arpt. Bcn,rnwy,flood,obst lgts. Lgts on req, (10-4) See page 112.
MORGANTON ARPT-Soon arpt will be closed to all acft - use Riverside Arpt. (4-26)
POPE FLD (FT. BRAGG)-CLOSED TO LIAISON TYPE ACFT WITHOUT 2-WAY RADIO-USE AUX STRIP 2 MI N, AT FT. BRAGG. Svcg avail. that fld. Heavy glider traffic. Equip. on fld days. 73,100 oct avail. (8-26)
★RALEIGH-DURHAM ARPT (RALEIGH)-RADIO: CAA ILS comm and flight-checked Oct 25. See page 109. FLD: ILS and transmitter bldgs 900' from NE end NE/SW rnwy. Glide path unit 400' S center line and 900' S of SW end NE/SW rnwy. Approach lgts 75' N of S end NE/SW rnwy and extending 1500' from end of rnwy. All obsts marked. (7-31)
ROANOKE ISLAND ARPT (MANTEO)-Bcn inop. (10-4)
SEYMOUR-JOHNSON FLD (GOLDSBORO)-Use rnwys only - shoulders soft. Temp inactive. No facs. (See Special Notice re use).
WEEKSVILLE NAP-LTA-Avail. HTA and LTA acft daylt hrs; ngts by prior tlfo arrangement or in emerg. (9-3)

NORTH DAKOTA

BISMARCK ARPT-Use rnwys only. Equip. on fld-resurfacing rnwys. Army acft rstd from refueling except in extreme emerg. Crash and fire fighting equip. avail. 0800 to 1900 only. (9-16)
CHANDLER ARPT (WILLISTON)-Use strips only, bal fld rough. (5-10)

NORTH DAKOTA-Continued

DICKINSON-RADIO: Moderate multiples E course, lgtsmultiples other courses.
DICKINSON MUN. ARPT-30' hay stacks near all edges fld. Use rnwys only.(10-9)
FARGO ARPT-HECTOR FLD (FARGO)-Tetrahedron flash. lgts indicates weather below CFR minimums. Bcn will operate only during hrs of darkness. (10-1)
GRAND FORKS ARPT-Use rnwys, taxi strips only. Shoulders soft. Equip. on fld. 50' const booms adj to NE corner fld, lgtd ngts. (8-27)
VALLEY CITY ARPT, SITE 71, HL-TWIN CITIES-CLOSED (const). Course lgts changed to red. Bndry lgts discont. (7-29)
**WRIGHT FLD (WILLISTON)-New fld. Lat 48-10-25, long. 103-36-45. (10-8) See page 9.

OHIO

AKRON ARPT-Surplus Acft Sales Center-parked acft. Use rnwys only. Equip on fld days. Trans pilots must register in Admin Bldg on arvl and dptr. Ltd svcg facs only. (5-2$).
BRECKLING AIR SERVICE (CLEVELAND)-Large ramp under const. (7-24)
BRICKER FLD (BOWLING GREEN)-Use right traffic when landing or taking off to N,W and SW. (7-17)
BROOKFIELD ARPT-Avail. lgt acft only. N/S strip under const. (4-21)
BRYAN-DEFIANCE MEMORIAL ARPT (DEFIANCE)-Use E/W rnwy only, bal fld and rnwys under const. (7-3)
CEDAR LAWN ARPT (KENTON)-Use strips only. (6-26)
**CHERRY FORK INT, SITE 4 CC-WA-New pwr line 30' high lctd 500' N of N end of N/S lndg strip, obst lgtd. Obst lgts adj to and parallel with new pwr line (10-17)
CINCINNATI ARPT, INC. (SHARONVILLE)-Taking off to W,SW,S use right traffic pattern. (5-1)
CLEVELAND ARPT-Trans pilots must register in Terminal Bldg upon arvl and dptr Landing fee on all civil. multi-engine acft. Rnwy 9-27 closed (const). Parts of mat under const. (9-27)
CLINTON COUNTY AAF (WILMINGTON)-Rnwy lgts avail. on one hrs notice. For flight thru danger area, permission must be obtained from Cincinnati Airway traffic control center upon entering or prior to departure from ATC area. Inten inst. train. being conducted - for danger area description see Wilmington, Ohio. (7-8)
CONNEAUT ARPT-Use mowed strips only. (6-4)
DAYTON ARPT-Use rnwys only. Equip. on fld. Approach lgt lane under const for approx 1500' off SW end Rnwy 6-24R. Consists of poles graduated up to 32' in height. (9-26)
**FINDLAY ARPT-Rnwy and obst lgts installed. (10-21) See page 37. Lgtd bldg under const NE of fld. (10-21)
AKRON-CANTON ARPT (GREENTOWN)-New arpt under const. Will be avail. approx Dec. 15. (10-18)
GRIESER ARPT (WAUSEON)-Use strips only. (7-3)
GRIMES FLD (URBANA)-Use strips only. Land according to wind tee lctd in center of fld. (5-27)
LANSDOWNE ARPT (GREENVILLE)-Equip on fld intmtly. (8-12)
LIMA ARPT-1320' of the E portion of fld avail. in emerg only - under cultivation. (7-26).
LOCKBOURNE AAB (COLUMBUS)-RADIO: Loizr of Army ILS inop. (10-17)
LORAIN CITY ARPT (LORAIN)-Water main being run thru the SW corner of fld, temp shortening NE/SW strip to 1800'. (9-27)
LOST NATION ARPT (WILLOUGHBY)-Const. Pilots use rnwys indicated by wind sock and tetrahedron lctd S side arpt. (7-9)
LUNKEN ARPT (CINCINNATI)-Fast landing acft use ctn. Slightly rolling section Rnwy 6-24. Army facs ltd. 300' center twr approx 12 mi NNE 1/3 level obst lgts inop. (10-28)
MANSFIELD ARPT -RADIO: Priv. twr and low-powered range operate on req or for training. Freq 269 kcs, Ident "IV".

MANSFIELD
MARION AR ips extend into cu
MATHER AR.. mission. Const on 1000' NW/SE, 1100' NE/SW rnwys. (8-22)
McKINLEY ARPT (CANTON)-330' twr Radio Sta WCMW being erected 5 mi WNW (285°) true. (6-9)
MEDINA PRICHARD ARPT (MEDINA)-Soft when very wet. (10-14)
MIDDLETOWN ARPT-Right traffic pattern taking off to S, SW and W.
NORWALK ARPT-Ditch N end N/S strip adj to side of road. (7-26)
OHIO STATE UNIVERSITY ARPT (COLUMBUS)-Const. Trans use rnwys only. (9-17)
OHIO UNIVERSITY ARPT (ATHENS)-3' ditch W end fld. (5-18)
PARKS WATSON ARPT (CINCINNATI)-Right traffic pattern in take-offs to E,NE,SE. (4-2)
PATTERSON FLD (FAIRFIELD)-RADIO: Glide path of Army ILS unreliable for ceilings under 100'.(7-1) Army GCA sys temp deactivated. (8-16)
PAULDING COUNTY ARPT (PAULDING)-Soft when wet, land at own discretion.(6-7)
PORT COLUMBUS ARPT-NAS (COLUMBUS)-Rnwys and taxi strips being resurfaced, all areas marked. NW/SE rnwy except at intersection first rnwy closed. 10' bldgs being erected: 400' E of E end of E/W rnwy and on center line of E/W rnwy: 400' E of E end E/W rnwy and 250' S of center line E/W rnwy: 750' E of W end of E/W rnwy and 400' S of center line of E/W rnwy. 18" trenches being dug: on SW side NW/SE rnwy from Admin Bldg to NW end NW/SE rnwy; from Admin Bldg to just W and parallel to Navy opers area terminating at bldg location 400' E of E end of E/W rnwy, marked. Neon approach lgts being erected 85' N of center line of E/W rnwy and from W end of E/W rnwy to approx 1500' W. (7-16)
SULLIVANT AVENUE ARPT (COLUMBUS)-W end E/W strip being extended 900'; S end N/S strip 1000';SE end NW/SE strip 800'. These extensions are under const and unsafe. (6-14)
TAYLORCRAFT ARPT(ALLIANCE)-No radio.Left traffic 800' pattern.Student train. and test flying.Land acrdg to wind tee atop NE corner of hangar. Use rnwys only. Unlgtd bldgs entire S bndry fld. Trans pilots must register in Opers Office upon arvl and dptr. (8-23)
TWIN CITIES ARPT (GALLIPOLIS)-Use in emerg only. Cattle on fld. (7-3)
WARD ARPT (BEDFORD)-NE/SW, NW/SE strips rough. (7-3)
WELLINGTON ARPT-Right traffic on N and SW rnwys. (10-19)
WILLARD ARPT-Avoid center section of N/S strip (soft). (6-19)
WILMINGTON-Experimental Flying is being conducted within the following described area: beginning at lat 39-41, long. 83-01-30; S to lat 38-48-40, long. 83-02-30; NW to lat. 39-11-20; long. 84-00; N to lat. 39-42-10,long. 84-00; E to point of beginning. This area should be avoided at all times.
WRIGHT FLD (DAYTON)-CLOSED TO ALL TRANS MIL ACFT EXCEPT ON AUTHORIZED OFF. BUS. THIS STN OR IN EMERG AND TO ALL TRANS NAVAL ACFT. ALL OTHER ARMY ACFT AND TRANS NAVAL ACFT USE PATTERSON FLD. No svcg 2400 to 0730. Sod area closed. Rnwy, taxiway shoulders soft. Exten exper and train.flights. (3-23)
WYNKOOP ARPK (MT. VERNON)-Under const. (6-20)
YOUNGSTOWN ARPT-Use rnwys only. Equip. on fld. (6-22)
ZANESVILLE ARPT-Use rnwys, taxi strips only-newly seeded areas.Tetrahedron ngts on req only. Rnwy in use lgtd continuously. (6-20)

OKLAHOMA

ALTUS MUN. ARPT-Avail. only for delivery surplus mil acft or in emerg.Equip on and near N/S rnwy. (12-13)

OKLAHOMA-Continued

ARDMORE ARPT-Being used by American Airlines. Avail. trans acft in emerg only. No fuel or svcg avail. trans acft-use Ardmore Arpt, Site 10, FV-WD, Intenctc and inst train. in progress. (9-13)
BETHANY ARPT (OKLAHOMA CITY)-Use rnwys only. (6-6)
CHICKASHA FLD-CLOSED-under supervision Defense Plant Corp. (8-4)
CIMARRON FLD (YUKON)-Now a WAA Sales and Storage Center. No svcg,repairs or overngt storage. Planes parked on fld. 4 strips indicated by pylons and markers. Lime markings center of each strip. (5-88)
ENID AAF-RADIO: Army range unreliable. (10-4) FLD: Ltd parking facs. Use rnwys, taxiways only. (5-8)
GARTHOEFFNER COUNTRY CLUB (OKLAHOMA CITY)-Only N/S, NW/SE strips avail.(6-26)
GREAT SALT PLAINS BOMBING RANGE (JET)-Trans acft land at Enid AAF for permission to use this fld. (6-10)
GUTHRIE INT, SITE 21, FV-WD-Const. Equip. on fld. Temp N/S strip avail. during const period. Bndry lgts to be decomm soon. Green course lgts changed to red. (5-21)
HATBOX FLD-MUSKOGEE ARPT (MUSKOGEE)-Use rnwys only-parked acft.
LAWTON ARPT-Obst lgts inop.Bndry, flood lgts on req. (7-24)
**LOWELL FLD (CHICKASHA)-ABANDONED. (10-7)
MAX WESTHEIMER FLD (NORMAN)-Avail all acft up to 30,000 lbs, days only.Left traffic pattern; lgt acft 800', heavy acft 1000'. Lcl traffic avoid flying over bldgs on N Campus. All traffic avoid flying over corporate limits of Norman unless having vertical clearance of 2000' or more. (7-13)
MUNICIPAL ARPT (BOISE CITY)-Emerg use only. (5-11)
NEWKIRK SKYPARK-NW/SE strip under const. (8-3)
NUCKOLS FLD (OKLAHOMA CITY)-Use rnwys only. (1-14)
PERRY ARPT-Trans mil acft land at Enid AAF for permission to use this fld. (5-8)
PONCA CITY ARPT-Obst lgts atop 175' twr 1 mi S inop. (8-27)
POST FLD (LAWTON)-Closed to all except liaison type acft. Ext const. Equip on entire W half and NW portion fld. Closed ngts. Flash.bcn atop balloon hangar inop. Soft spots. Const on rnwys. (6-14)
ROOSEVELT-RADIO: VHF range will be comm soon at lat 34-52-00, long.99-03-48. Freq. 108.7 mcs. Ident "RQ" (. - . v.-.-). Visual courses: 53°,233°; aural courses: 143°, 323°. (9-24)
SHAWNEE ARPT-Use rnwys, taxi strips only. (4-20)
★TINKER FLD (OKLAHOMA CITY)-RADIO: Army range reported unreliable for orientation and homing. Army DF station temp inop. AACS, ground to air stn now operating only on 137.88,116.1,140.58 mcs. (10-25). FLD: Equip. on Airdome. (10-24)
TULSA ARPT-Pilots without radio watch twr ltcd SE corner fld for lgt signals Use rnwys, taxi strips only. Const on Terminal Bldg ramp. Equip. on fld days, lgtd ngts. Svcg, crash and fire fighting equip. avail. 0800 to 1700 Mon thru Fri only. (10-25)
**WILL ROGERS FLD (OKLAHOMA CITY)-Three 327' twrs of Stn KOMA erected 8 mi SE (130°) true, 3/4 mi W of S limits Moore Okla., lat 35-20-00,long. 97-30-20, obst lgtd. (10-10) Ditch at approach end Rnwys 30,35,lgtd.Bndry lgts inop-ctc lgts on rnwy in use will burn cont. ngts. (10-22)
WOODRING FLD (ENID)-Use rnwys only. (8-5)

OREGON

ARLINGTON INT, SITE 12B, FD-SM-Tall grass on fld. (9-17)
BAKER ARPT-Use rnwys only. Equip. on fld days. Erecting 25' unlgtd bldgs adj to and outside bndry lgts-700' E of N/S,700' S of E/W rnwys. (9-14)
**BOULLENSTERS FLYING SERVICE ARPT (PILOT ROCK)-Name changed to Pilot Rock Arpt.(9-18) See page 4.
**ENTERPRISE ARPT-Lat 45-26-15, long. 117-17-45. (9-14) See page 4.
EUGENE-RADIO: All courses have multiples. (7-3?)

OREGON

EUGENE ARPT-N/S rnwy closed-to be used as taxiway only. (9-13)
GRANTS PASS ARPT-Otn when wet. Traffic lands to N, takes off to S-steep grade. (6-5)
HOOD RIVER ARPT-Grading in progress to widen and lengthen strips. (9-16)
**JOHN DAY ARPT-ABANDONED. (9-18)
MADRAS ARPT-Closed to all civil. flying. Acft landing this fld may be detained. (10-8)
MAHLON SWEET FLD (EUGENE)-Equip. on fld. Use rnwys only. (10-6)
MEDFORD-RADIO: All courses have multiples.
MEDFORD AAF-RADIO: CW freqs, of AACS, ground to air stn, temp inop. (9-6)
FLD: Use rnwys, taxi strips only. Tetrahedron controllable from twr until wind reaches velocity of 10 mph. No bndry or flood lgts. (10-5)
**NEWPORT ARPT-Lgts on req. (8-6) See page 1.
PENDLETON-RADIO: All courses have multiples with signal fades and surges.
PORTLAND-RADIO: Stevenson, Wash. FM commissioning delayed indefinitely.(7-4)
PORTLAND AAB-RADIO: AACS, ground to air stn voice freq 140.46 inop. FLD: East N/S rnwy avail. taxiing only. Flash. lgts on tetrahedron indicates suspension CFR flights. 100 oct, ltd 73 oct avail. Ltd JP-1 fuel avail. (8-10).
ROSEBURG INT, SITE 41A, SF-SA-Unlgtd 100' pole 1200' S, 300' E of s bndry. (8-20)
SANTIAM JUNCTION FLIGHT STRIP (IDANHA)-Land to the E, take-off to the W.(8-10
THE DALLES-RADIO: All courses have multiples with signal fades and surges.
TROUTDALE AIRPORT-Surplus Acft Sales Center - parked acft.

PENNSYLVANIA

ALBERT AIRPORT (PHILIPSBURG)-Const S end N/S strip. (5-31)
ALLENTOWN-BETHLEHEM AIRPORT (ALLENTOWN)-Areas off rnwys soft in wet weather. Floodlgts Rnwys 9, 14, 18 inop. (5-18)
ALTOONA-BLAIR CO. ARPT, SITE 24A, CO-PG-Use rnwys only. (8-13)
BARRETT AIRPORT (CANADENSIS)-CLOSED (const). (6-11)
BEAVER FALLS AIRPORT-Patterson Heights Arpt, 1.5 mi S Beaver Falls is not under const., entirely avail. New fld, Beaver Falls Arpt, closed (under const and soft.) (3-30)
**BENEDICT ARPT, INC.. (CHESTER)-ABANDONED. (10-14) See page 77.
BLOOMSBURG ARPT-Temp too soft for use (recent floods). (6-1)
BUTLER-ALAMEDA AIRPORT (BUTLER) -Pilots avoid hospital area adj arpt. Use right traffic pattern on W take-off. (7-9)
CARLISLE AIRPORT-NW/SE strip under const. Use ENE/WSW strip only. (6-11)
CECIL-RADIO: Visual and aural RM signals reported in Vicinity of Imperial, Pa. (7-17).
CHAMBERSBURG-High explosives being discharged approx 7 mi NW thru Feb. 5, 1947, daily Mon thru Sat 0800 to 1700 within the following area: N bndry lat. 40-01; S Lat. 39-59-30; E long. 77-47; W long. 77-49. (8-3).
CHEMUNG VALLEY ARPT (ATHENS)- 500' extension E end E/W strip under const.(6-3
CUB HAVEN ARPT (LOCK HAVEN)-Use rnwys only. (8-13)
DALEVILLE ARPT-Use right traffic pattern on E take off. (8-22)
EAST SCRANTON ARPT (SCRANTON)-Emerg use only. (5-28)
GREATER PITTSBURGH ARPT (PITTSBURGH)-Use rnwys only-shoulders soft. CFR plans only. Ltd Army facs. No 91 oct. No stol. Rnwy 32, first 500' of Rnwys 23 27 closed. Equip. on fld. (9-24)
HARRISBURG STATE AIRPORT (HARRISBURG)-Use rnwys only. Do not use lock-wheel turns at ends of rnwys. (6-28)
**HIGHLAND SEAPLANE BASE (ASPINWALL)-Same as Highland Seaplane Base, Pittsburgh. (10-15) See page 144
JOHNSTOWN AIRPORT-Use rnwys only. (7-1)
JOHNSVILLE AIRPORT-RADIO: Navy twr temp inop on Sun. (4-26)

PENNSYLVANIA-Continued

KAISER FIELD (BRISTOL)-Rnwy shoulders soft, unsafe for heavy acft during wet weather. Use rnwys only. (5-27)
LANCASTER ARPT-Drain-pipe on both sides NW/SE strip, mrkd, stay between red flags. Sinkhole extreme E end E/W strip; 2 holes S end N/S strip, mrkd.(6-27
**LEBANON COUNTY ARPT (MYERSTOWN)-Correct location: Lat 40-22-30, long.76-20-00 (8-6) See page 76.
**McKEESPORT SEAPLANE BASE-ABANDONED. (10-15) See page 144.
MILLBROOK-RADIO: VHF Range temp. shut down. (5-10)
MT. POCONO AIRPORT-SITE 21, BUFFALO-NEW YORK-Shoulders NE/SW rnwy rough, not graded. Hazardous ruts along S side NW/SE rnwy. Use rnwys only. (5-22)
MOUNT UNION ARPT-Use strips, taxiways only. Use rnwys only in wet weather-strips unsafe (rough). (6-28)
MUSTIN FLD NAAS (PHILADELPHIA)-Avail. ngts to pilots familiar with fld and surrounding obsts. Others and pilots of transport planes over 9000 lbs use Philadelphia Southwest Arpt for ngt landings and take-offs. Closed to acft 50,000 lbs or over. Left traffic pattern at 1000'. (8-5)
OLMSTED FLD (MIDDLETOWN)--Ngt landings hazardous. Obsts adj fld. 81' high tension wires across approach zones Rnwys 29, 14. Lgtd obsts between Rnwys 29, 32, approx 1000' from rnwys. Two 150' obsts right of Rnwy 29, lgtd. Ridges to WSW, ENE 300 to 700' higher than fld. Closed to B-29 opers. Use rnwys 11, 32 for ngt landings. (10-14)
PARKER CRAMER AIRPORT (CLARION)-CLOSED (const). (5-24)
PHILADELPHIA NORTHEAST ARPT (PHILADELPHIA)-Avail. radio-equipped acft. Use rnwys only. Equip. on fld intmtly days. Trans pilots must register in Admin Bldg on arvl and deptr. (10-15)
PHILADELPHIA SOUTHWEST ARPT (PHILADELPHIA)-RADIO: Loksr of CAA ILS which was operating on 109.9 mcs for test purposes only is now temp inop. Ltd E and E/W rnwy. Oper 24 hrs daily. (10-14) FLD: Closed to non-radio-equipped acft except in emerg. Const on fld. Use rnwys only. Use otn in taxiing. (10-8)
★PHILIPSBURG-RADIO: Oct 7, NW course realigned to 163°.
**PILLOW, BCN SITE 9, BO-BJ-24" rot bcn, 6 rpm, red course lgts flash char (-.. .) comm. (10-11)
PITTSBURGH-RADIO: DF stn temp inop. (10-23)
PITTSBURGH-ALLEGHENY COUNTY ARPT (PITTSBURGH)-Army acft use in emerg only or on written orders. Use Greater Pittsburgh Arpt. Outgoing AAF flights clear thru AAF Flight Service. N/S rnwy closed. Equip on fld, mrkd. Closed to non-radio equipped acft. (7-18)
PITTSBURGH-BETTIS ARPT (PITTSBURGH)-Right traffic on NE and NW rnwys. (6-4)
PITTSBURGH-BUTLER AIRPORT (BUTLER)-Land in accordance with wind tee. Wind cone atop hangar for wind direction only. (7-24).
PUNXSUTAWNEY AIRPORT-WNW end ESE/WNW strip closed. (8-5)
READING ARPT-RADIO: CAA ILS comm Oct 9 on Rnwy 36 on exper basis. Loksr on 109.5 mcs. Not flight-checked. FLD: Ridges S and E within 4 mi of fld up to 1200' MSL. Equip. on fld days. Right traffic pattern on Rnwys 13 and 18. (6-11)
VALLEY FORGE AIRPORT (NORRISTOWN)-E/W, NE/SW strips avail. NW/SE under const. On take-offs to and landings from E or NE use right traffic temp: on W or SW use left traffic. (5-29)
VANDERGRIFT ARPT-Being repaired - use only center of strips. (4-25)
WILKES-BARRE-WYOMING VALLEY AIRPORT (WILKES BARRE)-Use rnwys only. Closed ngts - all lgts inop. (8-2)
WILLIAMSPORT ARPT-Closed ngts. Avail. emerg landings only. (10-4)
WILLOW GROVE NAS-Closed ngts. Equip. sides all rnwys days-lgts being installed. IFR inbound flights will be accepted daylgt hrs but no IFR outbound flights may be made. (9-16)
WINGS FLD (AMBLER)-NW/SE rnwy unusable (plowed up). Hangar const S side fld. Fld being graded, mrkd days. (9-14)

CHARLESTON [illegible]. Use ctn below 1000' alts. Ex [illegible]
GREENE, TH[illegible] only. Turf channels avail. lc[illegible] purposes only. (5-25)

SOUTH CAROLINA

★CHARLESTON ARPT-RADIO: CAA ILS flight-checked and comm Oct 12. See Page 132. FLD: Lgtd bldg under const in sodded area between NW/SE rnwy and taxi strip 1500' S on NE end Rnwy and 325' from edge. 10' antenna shelter 45' long being erected on center line 1200' from SE end NW/SE rnwy, mrkd. Use rnwys only. Army temp inactive - civil. facs. (9-23)
CLARK FLD (CHARLESTON)-Strips rough. (4-19)
FLORENCE ARPT-Closed sunset - sunrise (bcn, rnwy, obst lgts inop). (7-12)
GEORGETOWN CO. ARPT (GEORGETOWN)-Equip. on rnwy shoulders. Bcn inop. (3-10)
GREENVILLE ARPT-Bndry lgts E, SE fld inop. All rnwy lgts operated simultaneously - unable to control rnwys separately. (10-11)
GREENVILLE AAB-Only 73, 100 oct. Wind tee rmvd. Tetrahedron lgts inop. Non-radio equipped acft watch twr for landing direction. (10-3)
LEXINGTON CO. ARPT (COLUMBIA)-Army temp inactive - no facs.
MEMORIAL ARPT (SPARTANBURG)-Use rnwys, taxi strips only. Ctc lgts inop.
MYRTLE BEACH AAF-Inst train. at 1000 to 5000' alts 50 mi radius during IFR.
NORTH ARPT-Temp inactive. No facs. (See Special Notice re use).
OWENS FLD (COLUMBIA)-RADIO: Soon, DT fac of CAA range will be relctd at Lexington Co. Arpt. (10-8) FLD: Use rnwys only. Req pilots avoid pivoting acft on NW end NW/SE rnwy. Small acft parked on ramp front Admin Bldg, mrkd. (8-14)
PARRIS ISLAND MCAS-Use in emerg only (caretaker status - no facs).
WOODWARD FLD (CAMDEN)-RFC planes parked entire fld off rnwys. Use rnwys, taxi strips only. No facs for closing flight plans other than phone. Flight plans should be closed with Shaw Fld twr before landing. Closed ngts. (1-10)

SOUTH DAKOTA

ANDERSON ARPT (MITCHELL)-Use strips only. (5-7)
BELLE FOURCHE ARPT-SE end NW/SE strip rough. Avoid S end N/S strip beyond intersection of E/W strip. Loose gravel around new hangars and taxi strip leading to NW/SE strip. All strips soft when wet. (8-5)
BIERMENFELT FLD (FAULKTON)-Hay stacks on fld.
**BRITTON MUN. ARPT-New fld. Lat 45-49-15, long. 97-44-45. (5-1) See page 12.
BROOKINGS ARPT-Use strips only - fld soft in wet weather. (8-5)
**CARTHAGE ARPT-New fld. Lat 44-09-30, long. 97-43-00. (4-26) See page 12.
**DELL RAPIDS MUN. ARPT-New fld. Lat 43-50-30, long. 96-41-45. (4-29) See page 29.
**EUREKA MUN. ARPT-New fld. Lat 45-48-00, long. 99-38-15. (6-17) See page 12.
**FLETCHER ARPT (RELIANCE)-New fld. Lat 43-51-30, long. 99-34-30. (4-25) See page 29.
**GERONIMO ARPT (RAPID CITY)-New fld. Lat 44-06-15, long. 103-08-45. (4-24) See page 9.
**MILBANK ARPT -New fld. Lat 45-14-00, long. 96-33-45. (6-18) See page 12.
PIERRE ARPT-Tetrahedron unreliable. (6-18)
**PLATTE ARPT-Correct lctn: Lat 43-24-00, long. 98-44-30. (7-26) See page 29. Use strips only.
**PRESHO MUN. ARPT-New fld. Lat 43-54-45, long. 100-04-15. (4-25) See page 28.
RAPID CITY-RADIO: Unusal multiple on range courses. (10-10) All courses reported displaced. (10-19)
RAPID CITY AAB-RADIO: Army ILS temp suspended. AACS, gnd to air stn inop on all freqs. (10-17) FLD: No svcg or opers 1900 to 0700 daily.(10-9)

SOUTH DAKOTA-Continued

**RUSHMORE FLD (RAPID CITY)-Correct lctn: Lat 44-06-45, long. 103-08-00. (4-24) See page 9.
SIOUX FALLS ARPT-Use rnwys only. Tetrahedron rmvd. (9-2)
**SISSETON MUN. ARPT-New fld. Lat 45-40-15, long. 96-59-45. (4-26) See page 12.
WATERTOWN-RADIO: Courses aligned by gnd check only. (10-23)
WATERTOWN COMMERCIAL ARPT-Use in emerg only - no facs. (9-11)
W.W.HOWES ARPT (HURON)-Closed to all acft exceeding 25,500 lbs. Blinding 30 million candle pwr ceilometer 1000' NW bcn. (9-27)

TENNESSEE

BEACHVILLE, BCN SITE 63, DL-LV-Will be comm at new lctn soon. (10-18)
BERRY FLD (NASHVILLE)-On or about Nov. 1, neon approach sys will be comm. consisting of a green 18° course lgts, 100' from S end of N/S rnwy and 12 red neon lgt stns spaced approx 100' apart. (10-18) Use rnwys only - rnwy, taxiway shoulders soft. (10-18)
CHATTANOOGA ARPT-LOVELL FLD (CHATTANOOGA)-Intmt dynamiting in stone quarry N bndry fld days. Avoid flying over quarry. (9-25)
CORNELIA FORT ARPK (NASHVILLE)-Landings and take-offs to S use left hand traffic, to N right hand traffic. (7-24)
CUMBERLAND FLD (NASHVILLE)-Strips under const. (1-26)
EMBRY RIDDLE FLD (UNION CITY)-Use rnwys only - parkad acft.
KNOXVILLE-RADIO: Heavy multiples E course.
★KNOXVILLE-McGHEE TYSON ARPT (KNOXVILLE)-RADIO: CAA ILS comm and flight-checked Oct 23. See Page 108. FLD: S taxi strip closed. No parkings on ramp front of Admin Bldg any time day or ngt. Army acft rstd from refueling except in extreme emerg. Unlgtd parked acft on parking area and edge of ramp NE of Admin Bldg. (10-3)
LEBANON ARPT-Soft spots in E/W and NE/SW strips near intersection; avoid using after heavy rains and thaws. (11-26)
McKELLAR ARPT (JACKSON)-Use rnwys only - parked acft.
MEMPHIS ARPT-Fld badly eroded. Use rnwys only - shoulders soft. Equip. on fld. Avail priv acft equipped with fully operating 2-way radio transmitting on one of the following freqs: 3105, 4495, 6210 kcs. Other acft may land by obtaining previous authorization from CAA inspector. Student instruction in priv acft not permitted. Neon approach lgts inop-being relctd. No svcg facs for mil acft between 2300 and 0700 except in emerg until Nov. 17. E/W rnwy closed - avail. emerg use only. (10-28)
MEMPHIS NAS-CLOSED NOTS EXCEPT IN EMERG. Flight plans should be addressed to "MEMPHIS NAVY". Ngt flying in 5 mi radius up to 2500'. Exten flight opers in 15 mi radius. Traffic left at 1000'. Resurfacing Rnwys, mats. Red rot. bcn indicates IFR. (8-6)
★MT. JULIET-RADIO: FM comm Oct 22 at lat 36-12-00, long. 86-28-35. See Page 105.
SMITHVILLE-RADIO: Severe multiples E and W. courses. (10-5)
SMYRNA AAF (NASHVILLE)-RADIO: Army ILS temp inop. (6-25) AACS, gnd to air stn and DF facs on 4765, 4890 kcs, voice, 2796, 5200 kcs CW temp inop. (5-31) FLD: These data rc'd too late for deletion of (O) symbol.
TRI-CITY ARPT-RADIO: Oct 5, CAA twr comm, operating 0800-2100. Lgt gun only. FLD: Army acft rstd from refueling except in extreme emerg. Use rnwys only - rough. Soft when wet. (10-22)

ABILENE AIR TERMINAL (ABILENE)-E/W rnwy avail. only on permission of control twr. (9-3)

ABILENE AAF-Temp inactive-no facs. (See Special Notice re use).

**ADRIAN INT, SITE 91, LA-AQ-Changed to Adrian Int, Site 92B, LA-AQ. Code char (. . -). (10-20). See page 60.

ALICE ARPT-Rnwy lgts not visible on final approach-lgts obscured from air by grass and vegetation. (10-20)

AMARILLO AAF-RADIO: AACS, ground to air stn temp inop. (6-25)

ARLEDGE FLD-MAIN AIRDROME (STAMFORD)-Use rnwys only-parked acft. Sod soft after rain. Wind tee removed. Wind socks on N and S hangars. (6-3)

ARLINGTON (MIDWAY) ARPT-All rnwy lgts inop. NE/SW rnwy unsafe; NW/SE rnwy usable with ctn. (4-13)

ASHERTON ARPT-High brush-use strips with ctn. (6-11)

AUSTIN-RADIO: Range flight-checked, courses correctly aligned, break in stn location marker lgt pattern. (5-23)

AUSTWELL INT, SITE 5A, CR-HU-Unsafe (soft). (9-23)

BERGSTROM FLD (AUSTIN)-RADIO: Army ILS temp inop. (10-2). FLD: Rnwys NE/SW, S-26 closed. (10-1).

BIGGS FLD (EL PASO)-RADIO: Army ILS (CAA type) temp inop. (5-16). FLD: See notice under White Sands Proving Ground, N.M. Const on rnwys. Dirt landing strip at old fld closed for resurfacing. Five 90' twrs under const 2000' E of N/S rnwy, lgtd. (10-22).

**BOISE, BCN SITE 90, LA-AQ-Changed to Bcn Site 92A, LA-AQ. Code char (. . -) (10-20)

BROWNSVILLE-RADIO: 3105, 3117.5, 4495, 6210 kc receivers unreliable. 116.1 mc transmitter temp inop. Range flight-checked Oct 2, two courses correctly aligned. (10-28)

BRUCE FLD (BALLINGER)-Use rnwys only-parked acft.

BRYAN AAF-Temp inactive-no facs. (See Special Notice re use).

**BUSHLAND, BCN SITE 94, LA-AQ-Changed to Bcn Site 96, LA-AQ. Code char (- . -) (10-20)

CAMP HOOD LANDING FLD (KILLEEN)-CLOSED EXCEPT ON OFF. BUS. THIS STN OR IN EMERG. AAF oper facs avail. Mgt opers on previous arrangements. Right traffic to N, left to S overhead approach. E/W rnwy closed. (6-28)

CARTHAGE AIR SERVICE ARPT (CARTHAGE)-E/W strip under const. (5-26)

CHILDRESS-RADIO: Sept 24, VHF range on exper status only comm and flight checked for cont oper at lat 34-22-12, long. 100-17-12, lctd approx 5-1/2 mi SW of Childress. Freq. 109.1 mcs. Ident. "CM" (- . - . - -). Visual courses: 53°, 233°; aural courses: 323°, 143°. (7-25)

CHILDRESS AAF-Temp inactive-no facs. (See Special Notice re use).

CLEVELAND-RADIO: Exper VHF range temp inop. (10-15)

CLIFF MAUS FLD (CORPUS CHRISTI)-Use rnwys only during wet weather. (9-12)

★COLORADO CITY-RADIO: FM on E course of Big Spring range decomm Oct 17.

COMROE ARPT-Use in emerg only-no facs.

CORPUS CHRISTI-RADIO: 116.1 mc transmitter and receiver temp inop. (10-1)

COX AAF (PARIS)-Temp inactive-no facs. (See Special Notice re use).

CUERO ARPT-In wet weather land as near the ramp as possible. Use ramp only in emerg. Center portion fld soft in wet weather. No svcg or lgts. Landings should be made within orange cone bndrys. Use strips only-parked acft.

**DENVER CITY ARPT-New fld. Lat 32-59-30, long. 102-50-30. (10-14). See page 92.

EL DORADO ARPT-E/W strip soft in wet weather. (12-11)

ELLINGTON FLD (HOUSTON)-Closed to VHB acft except in emerg. Temp inactive-no facs. (See Special Notice re use).

EL PASO MUN. ARPT-ED ANDERSON FLD (EL PASO)-RADIO: On or about Dec 1, ILS (CAA type) will be comm, serving NE/SW rnwy with approach from NE. Loizr lctd 1700' SW of SW end of NE/SW rnwy, freq. 109.5 mcs. Ident. "EO". Glide path 1000' SW of NE end of NE/SW rnwy and 400' SE of rnwy centerline, freq. 332.6 mcs. Two marker bcns: Middle, 3556' NE of NE end of NE/SW rnwy on extended centerline with modulation freq 1300 CPS keyed alternate dots and dashes; outer, 4.56 mi NE of NE end of NE/SW rnwy on extended centerline with modulation freq 400 CPS keyed two dashes per second. Mag heading for landing: 217°. (9-27) FLD: Const 400' to left and 1000' from the approach end Rnwy 32. (5-17)

ENGLISH FLD (AMARILLO)-RADIO: AACS, ground to air stn oper temp suspended. (2-5). FLD: Use rnwys, taxi strips only. Army temp inactive-civil. facs. (7-26)

FALFURRIAS-RADIO: FM on S course of Alice Range will be decomm Nov. 1.

FORNEY-RADIO: FM on E course of Dallas range inop. (10-2)

FORT WORTH AAF-RADIO: AACS, ground to air stn temp inop. (7-25). FLD: Rnwys 3-21 and E/W closed. 40' trees immediate end Rnwy 35L. (9-16).

GAINESVILLE AAF-Use rnwys only. (8-10)

GASKIN FLD (SHERMAN)-Use rnwys only.

GIBBS FLD (FT. STOCKTON)-Use rnwys only-parked acft. Use only in emerg.

GILCHRIST ARPT (WICHITA FALLS)-Strips soft when wet. Pumping well approx 500' from NW end NW/SE strip. Use strips only. (5-22).

GOODFELLOW FLD (SAN ANGELO)-Use rnwys only. Ctc Goodfellow Radio 15 mi out in IFR weather. Acft flying N or E on range maintain odd 1000' alts. Acft. flying W or S, maintain even 1000' alts unless otherwise advised by Goodfellow Radio. Local inst acft useing range. Ltd parking, svcg facs. (10-16)

GRAND PRAIRIE OLF-CLOSED TO ALL TRANS ACFT EXCEPT PTs. Ngt train. within gliding range from sunset to midngt at alts to 2000' above terrain. (7-1)

GUTHRIE-RADIO: On or about Nov 15, VHF range will be comm at lat 33-46-30, long. 100-20-09. Freq. 108.3 mcs. Ident. "UH". Visual courses: 72°, 252°, aural courses: 162°, 342°. (9-26)

HEARNE BCN SITE 15, GS-WC-Bcn inop. (5-16)

HENSLEY FLD (DALLAS)-Lgt acft operating at 500' pattern alts. (7-31)

HICKS FLD (FT. WORTH)-Use strips only-parked acft. (4-25)

HITCHCOCK NAF-LTA-RADIO: 6390 kc transmitter and receiver temp inop. (3-12)

HOLMAN ARPT (WICHITA FALLS)-Use strips only. Ctc Wichita Falls Radio for ngt landings. (5-12)

HOUSTON ARPT-Use rnwys, taxi strips-ditches parallel E/W, N/S, NW/SE rnwys and N/S taxi strip. Equip. on fld. (8-12)

JEFFERSON CO. ARPT (BEAUMONT)-Closed to trans acft except in extreme emerg. Const equip. on fld. No facs. (6-18)

JUNCTION-RADIO: On or about Dec 1, VHF range will be comm at lat 30-38-00, long. 99-58-43. Freq. 108.7 mcs. Ident. "JT". Visual courses: 128°, 308°; aural courses: 38°, 218°. (9-27)

KELLY FLD (SAN ANTONIO)-Acft on fld. Use rnwys only. 190' lgtd twr const W Rnwy 14-32. (9-17)

LAMESA FLD-Gov't owned acft parked W half fld. Use rnwys only. (6-6)

LAREDO AAF-Temp inactive-no facs. (See Special Notice re use).

LAUGHLIN FLD (DEL RIO)-Temp inactive-no facs. (See Special Notice re use).

LONE OAK, BCN SITE 5, DL-LV-Temp discont. (9-18)

LOVE FLD (DALLAS)-RADIO: Soon, glide path will be comm on CAA ILS. Transmitter will be lctd 1200' SE of NW end of NW/SE rnwy and 400' right of rnwy centerline approaching from NW. Freq. will be 335 mcs. Glide path angle: 2-1/2°. (5-19). FLD: Rnwy 4-22 closed. Soft areas along taxi strips when wet. 30 million candle pwr ceilometer projector 1000' N of control twr. (9-13)

LUBBOCK AAF-Temp inactive-no facs. (See Special Notice re use).

MARFA AAF-Temp inactive-no facs. (See Special Notice re use).

MATAGORDA ISLAND BOMBING AND GUNNERY RANGE (MATAGORDA ISLAND)-Temp inactive-no facs. (See Special Notice re use).

MEACHAM FLD (F[illegible] N S rnwy with approach tow[illegible] ser will operate on 109.9 [illegible] as: Outer marker 4.09 mi N of N end N/S rnwy, ke[illegible] ker 0.7 mi N of N end N/S rnwy, keyed with alterna[illegible] in wet weather use rnwys, taxi strips only. Obst lgt[illegible] op. (4-10)
MIDLAND ARPT NO. 2-Crash, fire [illegible] only (9-16)
MIDLAND AAF-Temp inactive. No [illegible] re[illegible]
MINERAL WELLS ARPT,new-Use [illegible] as unsafe. (7-15)
ORANGE AIRPORT-NE/SW, NW/S[illegible] W strip. Fld flooded after rains. (7-10)
PALESTINE ARPT-Sod areas usab[illegible] dry weather. Circle lgt[illegible] lgts. (10-21)
PAMPA ARPT-Erecting 20' bldg 500' S of E/W strip and 200' W of N/S strip,mrkd. (11-9)
PAMPA AAF-Temp inactive.No facs. (See Special Notice re use)
PERRIN FLD (SHERMAN)-Rnwys 3-21,7-25 closed.Acft parked S edge fld. (8-20)
PYOTE AAF-Rnwys 18-36 closed. Ltd svcg, maintenance. (6-18)
RANDOLPH FLD (SAN ANTONIO)-Trans acft use E side fld. (10-16)
RICH FLD (WACO)-Use strips only-muddy. Small ditch S end N/S strip (repairs on range lgts). (3-22)
RIO GRANDE VALLEY INTERNATIONAL ARPT (BROWNSVILLE)-RADIO: CAA twr now operates cont., lgt gun only. Soon, twr will be relctd atop Admin Bldg. W side fld. (10-15) FLD: Rnwy 4-22 closed. Use rnwys, taxi strips only. Bldg 300' E, 700' S of N end Rnwy 17-35, lgtd. Civil acft may be cleared thru this arpt for foreign flights. Army acft use Kelly Fld Portable control twr 40' SW base of old twr. Obst lgts atop 90' antenna poles 3 mi N and 3 mi S inop. (10-28)
ROBERT MUELLER ARPT (AUSTIN)-Acft landing or taking off on Rnwy 34R use right traffic pattern. Acft landing or taking off on other rnwys use left traffic pattern. Rnwy 12L-30R closed. Blinding 30 million candle pwr ceilometer 900' N of Admin Bldg. (10-14)
ROCKPORT ARPT-Closed except in emerg. Fire and crash equip. removed. (8-1)
SALTILLO,BEACON SITE 9, DL-LV-Temp discont. (9-18)
SAN ANGELO ARPT-RADIO: Mun. twr comm Oct 4. Oper 1200 to 1 hr after off sunset. Lgt gun oper only.
SAN ANTONIO-Cloud flying on Randolph Fld Radio Range at alts assigned by San Antonio ATC. Acft inbound to Randolph Fld or operating in that vicinity under IFR contact Randolph, Alamo or San Antonio Range Stn and adhere to instructions issued by San Antonio ATC. Acft outbound from Randolph Fld adhere to instructions issued through Randolph Twr.
** SAN ANTONIO ARPT-ALAMO FLD (SAN ANTONIO)-RDO: On or about Nov 1, ILS(CAA type) will be comm. Lclzr will operate on 109.9 mcs, lctd 1300' NE of NE end of NE/SW rnwy. Ident. "JK" Glide path on 333.8 mcs, lctd 750' NE of SW end of NE/SW rnwy and 450' SE of rnwy centerline. Two marker bcns: middle-3065' SW of SW end of NE/SW rnwy on extended centerline with modulation freq 1300 CPS keyed alternate dots and dashes. Outer-4.39 mi. SW of SW end of NE/SW rnwy on extended centerline with modulation freq 400 CPS keyed two dashes per second. Mag. heading for landing: 30°. (10-7) FLD: Approach lgting system comm: Lctd left side of S end of NE/SW rnwy extend. 1500' SW. (10-17). See page 141. Ltd svcg. Closed ngts to all civil acft except scheduled airlines. (10-17)
SAN BENITO INT,SITE 2, JI-FV-Hangar under const 200' NE bcn twr and 200' N Opers Office, mrkd. (10-28)
SAN MARCOS AAF-Ctn-helicopter and liaison pilot training. (10-15)
SHEPPARD/KELL MUN ARPT (WICHITA FALLS)-N/S rnwy W of fld rstd to acft 200 hp or less. Use rnwys only. Army temp inactive-civil facs. Opers open only between 0900 and 1700 daily. (10-15)

TEXAS-Continued

**SKY HARBOR ARPK (SAN ANGELO)-Bcn,bndry,obst lgts. (10-14). See page 116.
SOUTH PLAINS AAF (LUBBOCK) -Parts of rnwy not visible from control twr due to parked acft. Stn storage acft received only between 0800 and 1630 Mon thru Fri. Soft spot approx 1500' S of N/S rnwy. Ltd transportation, no housing, messing facs. Svcg, opers avail. 0800 to 1630 Mon thru Fri only. (9-20)
STINSON FLD (SAN ANTONIO)-Right traffic Rnwys 9,14,17,22. Left traffic on all other rnwys. Traffic 800' above terrain 1367' MSL. Avail. days only. (9-21)
TAYLOR AIRPORT (ALBANY)-CLOSED (rnwy const) (4-4)
TERRELL, BEACON SITE 6, FV-AG-Temp discont. (9-18)
TEXARKANA-Demolition operations are being conducted approx 15 mi WSW Texarkana Arpt, 0800-1615 daily except Sat. and Sun. All acft cautioned to fly above 1500' over this area.
★TYLER-RADIO: Oct. 21, range freq changed to 320 kcs. Courses aligned by ground check only. About Nov. 15, VHF voice fac will be comm at communication stn on 116.1 mcs.
**UNIVERSITY ARPT (AUSTIN)-ABANDONED (5-8) See page 117.
**VEGA,BEACON SITE 92, LA-AQ-Changed to Bcn Site 93, LA-AQ. Code clear (. . . -) (10-20)
VICTORY FLD (VERNON)-Use rnwys only (parked acft). Avail. days only. (6-3)
★WALDRON NAAS (CORPUS CHRISTI)-RADIO: Navy twr decomm. (10-15)
WHITE FLD (BRADY)-CLOSED. (8-7)
**WILLDORADO,BCN SITE 93, LA-AQ-Changed to Bcn Site 95, LA-AQ. Code char (. - .) (10-20)

UTAH

**ALTA ARPK (SANDY)-New fld. Lat. 40-35-30, long. 111-50-45. (5-13). See page 24.
BRYCE CANYON-RADIO: 116.1 mc transmitter and receiver, 129.7, 131.7 mc receiver and 111.1 mc transmitter temp inop. (10-2)
DELTA ARPT-Use rnwys only. (6-22)
DUGWAY FLD (TOOELE)-CLOSED TO TRANS MIL ACFT EXCEPT ON OFF. BUS. THIS STN OR IN EMERG,
ENTERPRISE INT, SITE 39, LA-SL-Closed to lgt acft-rough. 25' unlgtd bldg under const adj fld 90' N of S E corner. (10-23)
HANKSVILLE-RADIO: Stn unmanned from 2200 to 0600.
HANKSVILLE INT, SITE 54, LA-DV-N/S strip unlgtd. (6-17)
HILL FLD (OGDEN)-RADIO: CW facs of AACS, ground to air stn temp suspended. (5-26) Army DF (HF) stn oper temp suspended. (3-18)
MILFORD ARPT, SITE 45, LA-SL-Installation of obst lgts on bldgs SE corner fld S of and adj to bcn twr incomplete. (5-22)
PROVO ARPT-Soft shoulders. Fld lgts avail. on req. (7-18)
ST: GEORGE INT, SITE 36, LA-DV-Equip. along edges of strips. (6-12)
SALT LAKE ARPT NO. 2 (SALT LAKE CITY)-Use rnwys, taxiways only, shoulders soft. (655)
SALT LAKE CITY-RADIO: Auto. range monitor. sys on N course temp inop. Temp remote monitor. sys which provides cont aural and visual monitor. at control stn recomm on N course. Warning signal not avail. (5-3)
** SALT LAKE CITY ARPT NO. 1 -RADIO: Soon, CAA ILS will be comm,serving N/S rnwy with approach from S. Localizer transmitter located 1000' N of N end N/S rnwy on centerline, freq 110.3 mcs. Glide path transmitter located 750' N of S end N/S rnwy, 800' W of centerline, freq. 335 mcs. Two marker beacons: middle 3730' S of S end N/S rnwy, keyed with alternate dots and dashes: outer, 4.69 mi S of S end N/S rnwy, keyed two dashes per sec. Sys will operate cont. (10-7) FLD: Neon approach lgt sys and [illegible] installed S end N/S rnwy, will be oper during hrs of darkness and restricted visibility conditions when landings being made from S to N (10-25). Prevailing wind rnwy lgts operating ngts. Use rnwys-shoulders soft. Equip. ahead of Rnwys 31 and 34. (10-25)

UTAH-Continued

WENDOVER-Ground firing up to 45,000' MSL is being conducted approx 60 mi E, in the Low Flight Strip area, from 0800 to 1800. See chart 23.

★WENDOVER FLD-RADIO: Twr bdcasts scheduled weather at :29 after the hr from 0800 to 2200 daily. (10-22) FLD: CLOSED TO ALL TRANS ACFT EXCEPT ON OFF. BUS. OR IN EMERG. Opers inop 1700 to 0730. No svcg 2000 to 0730. Fld lgts avail. only on advance req. Obst lgts on mtn N of fld inop. (10-14)

VERMONT

BARRE-MONTPELIER ARPT (BERLIN)-Use rnwys only. (8-7)

BURLINGTON ARPT-Use rnwys only. Const E side of N end N/S rnwy. (9-16)

VIRGINIA

ALBERTA ARPT-ENE/WSW strip rough. Ends, sides ENE/WSW, NNW/SSE strips marked by 12' yellow markers. (5-24)

ALTAVISTA ARPT-200' NE end of fld unusable in wet weather. (5-23)

BLACKSTONE AAF-Temp inactive. No facs. (See Special Notice re use)

CENTRAL ARPT (RICHMOND)-During wet weather use strips only. (5-20)

CHINCOTEAGUE NAAS-Closed 1700 to 0800 except in emerg or on req with 2 hrs notice. Bcn operates all ngt except during local ngt flying with CFR conditions. Bcn turned on during ngt flying in emerg. or on req. (9-5)

COLONIAL BEACH ARPT-CLOSED (wet - high grass) (8-9)

CROSSROADS ARPT (ALEXANDRIA)-CLOSED (const). (4-1)

DAHLGREN NAF PROVING GROUNDS-CLOSED TO TRANS MIL ACFT EXCEPT THOSE ON OFF; BUS. OR IN EMERG. Off. flights must be cleared thru one of the following: Naval Air Stns: Anacostia, D.C.; Patuxent River, Md.; Norfolk, Va.; Quonset Point, R.I.; Cape May CGAS, N.J; Inyokern, NAF, Calif.; NAF Torpedo Sta, Newport, R.I.; Naval Acft Factory, Philadelphia, Pa.; Cherry Point MCAS, S C.; Quantico MCAS, Va.; AAF Proving Gnds, Eglin Fld., Valparaiso, Fla.; Langley Fld, Va.; Wright Fld, Dayton, Ohio; Aberdeen Proving Gnd, Aberdeen, Md.; Lakehurst NAS, N.J. 1 rnwy closed. Equip. on fld. Only 1 rnwy avail. ngts (8-28)

EMPORIA ARPT-Fixed tee, wind sock being lctd on hangar S side fld. Hangar under const. (5-4)

FENTRESS NAAS-Use in emerg. only (caretaker status -no facs)

HARCUM ARPT-Use NE/SW strip only between yellow cone markers. (6-14)

HOPEWELL ARPT-SE portion under const. Equip. on fld. (6-7)

HYBLA VALLEY ARPT (ALEXANDRIA)-Surplus Acft Sales Center - parked acft.

LANGLEY FLD-RADIO: S course of Army range unreliable - 11° W, bearing 3°. AACS ground to air stn temp inop. Army range voice transmission temp inop. (6-25)

FLD: Rnwy 12-30 closed to 4-engine acft. Rnwy 20-20 closed. Only 100 oct. avail. (10-21)

LOVING FIELD-SITE 35A, NASHVILLE-WASHINGTON (PULASKI)-Observe right traffic pattern for landings from SW on NE/SW rnwy. (8-1)

MILFORD INT, SITE 49B, AG-LG-NE/SW strip unsafe. (5-9)

MONOGRAM NAAS (DRIVERS)-Use in emerg only (caretaker status - no facs)

NORFOLK-RADIO: VHF range comm FOR TEST PURPOSES ONLY Sept. 26. Lctd at lat 36-48-18, long. 76-12-06. Ident. "NW". Freq. 108.7 mcs. Visual courses: 20°, 135°, 200°, 15'. Aural courses: 110°, 15', 290°, 15'. Class: VARW. Aligned by ground check only. (9-28)

NORFOLK NAS-EAST FLD-Shoulders adj perimeter taxiway soft. Pilots on Southbound coastal flights proceeding in accordance with IFR to NAS Norfolk, shall establish radio ctc with twr at NAAS Chincoteague, Va., for further clearance instructions from Navy Norfolk. Pilots on Northbound coastal flights proceeding in accordance with IFR to NAS Norfolk shall establish radio ctc with Navy Weeksville Radio, NAS (LTA) Weeksville, Elizabeth City, N.C., for further clearance and instructions from Navy Norfolk. Equip. on fld. (7-22)

OCEANA NAAS-Rnwys, taxi strips under const. Facs avail. 0800 to 1630 Mon thru Fri. Acft clearance not accepted 1630 to 0800 Mon thru Fri. Essential mil flights

VIRGINIA-Continued

accepted anytime on prior notification. (9-26)

ORANGE CO. ARPT (ORANGE)-E/W strip under const. (9-27)

PETERSBURG ARPT-CLOSED (const). (8-2)

••PRESTON GLENN ARPT (LYNCHBURG)-Rnwys renumbered: N/S 17-35, NE/SW 3-21, E/W 6-24. (10-16) Use rnwys only. Ctc Lynchburg Radio for landing instructions. Pwr line extension of 2 poles approx 3200' NW of W end E/W rnwy and 3 poles approx. 3600' to 3800' W of W end E/W rnwy, unlgtd, unmrkd. (9-25)

RICHMOND-Elko Aux. Fld, 5 mi E of Richmond AAB, is similar in design and layout to the Richmond AAB, BUT RNWYS ARE UNSUITABLE FOR LANDING BY ACFT OF ANY TYPE. Care should be taken not to confuse this fld with the Richmond AAB.

RICHMOND AAB-Ltd Army svcg facs. No 91 oct. Avoid using 1000' rnwy extensions. Rnwy, taxiway shoulders soft. All acft landing this fld without establishing radio communication with control twr watch carefully for lgt gun signals; control twr lctd in center of triangle of rnwys. Only 73, 100 oct. avail. (8-7)

UNIVERSITY OF VIRGINIA ARPT (CHARLOTTESVILLE)-Ctn on E/W strip in wet weather. (10-18)

VALLEY ARPT (WAYNESBORO)-Grading equip. on fld. One rnwy open, (10-22)

WINCHESTER ARPT-E end E/W strip rough. Contact Front Royal Radio or circle fld before landing. (6-7)

WASHINGTON

SPECIAL NOTICE-Benton Co. Danger Area approx 12 mi NW of Pasco is particularly hazardous-all flights avoid. (See Spokane Flight Planning Chart #3, Spokane Sectional, and Washington 5 Danger Area Charts)

ARLINGTON NAAS-Use in emerg only (caretaker status - no facs)

BOEING-RENTON ARPT (RENTON)-CLOSED TO ALL ACFT EXCEPT MIL ACFT ON OFF. BUS. AT BOEING PLANT.

COLVILLE ARPT-NW/SE rnwy closed. (1-17)

CONNELL ARPT-18" grass and weeds on fld. (7-17)

COUPEVILLE OLF-Closed except in emerg. Train. use requires 24 hrs advance notice thru Whidbey Island NAS. (9-11)

DOROTHY SCOTT ARPT (OROVILLE)-2' weeds S 1000' N/S strip. (7-1)

EASTON RIDGE, BCN SITE 57, SA-HL-Bcn inop. (10-17)

EPHRATA ARPT-Loose cattle on fld. (10-7)

FAIRWEATHER FLD (REPUBLIC)-Soft. Cattle on fld. (7-17)

FELTS FLD (SPOKANE)-Fancher bcn near Felts Fld inop. Take-offs and landings on sod area should be completed before reaching taxiway near center of fld. (8-28)

GEIGER FLD (SPOKANE)-Temp inactive. No facs. (See Special Notice re use)

HAFER'S RANCH ARPT (CHEWELAH)-Closed pending decision re abandonment. (7-1)

KENMORE ARPT (BOTHELL)-Avail. emerg use only-cattle. (9-10)

KING CO. ARPT-BOEING FLD (SEATTLE)-Use rnwys, taxi strips only. Equip. adj Rnwy 13-31. (9-26)

LAKE SAMMAMISH SEAPLANE ANCHORAGE (ISSAQUAH)-CLOSED. (4-26)

McCHORD FIELD (TACOMA)-RADIO: Army ILS (CAA type) temp inop. ((6-12)

FLD: Use rnwys, taxiways only. Equip. on fld. Glide path bldg 13' high with 25' antenna being erected about 1340' N of S end N/S rnwy and 250' E of Rnwy center-line; lgtd ngts. (12-13)

MERCER ARFLD (BELLEVUE)-Const on taxiway, apron. Alternate temp area avail. E side fld. (9-3)

MONROE-RADIO: FM on Seattle range temp inop. (10-3)

MOSES LAKE AAF-Temp inactive. No facs. (See Special Notice re use)

MT. VERNON OLF-Closed except in emerg. Train. use requires 24 hrs advance notice thru Whidbey Island NAS. Bcn inop. (10-1)

PAINE FLD (EVERETT)-Closed for landings, take-offs sunset to sunrise except by prior arrangement with fld manager. Lgts on req. (9-28)

Continued

PASAYTEN USFS [illegible] intmtly. (7-1)
PASCO-See Spec[illegible] (first item under state [illegible]ng)
PASCO NAS-Use [illegible] only (Contract status - no facs)
PULLMAN-MOSC[illegible]-Closed to acft over 10,000 lbs.(1-26)
ROSALIA MUN.[illegible] and weeds. (7-1)
SEATTLE-All acft directed not to fly below or near mtntops in Puget Sound Area.
SEATTLE NAS-Approach sector from Kirkland at 1000' alt. Seaplanes landing at NAS, Seattle, approach over Lake Washington from N or S under 200'. Rnwy 14-32 and wind direction indicator [illegible] from sunset to sunrise. Rnwy 14R used as taxiway for large multi-engine acft.
SEATTLE SKY P[illegible]SAQUAH)-New strip being const. Acft use sodded portion adj to strip under const. (6-26)
SEATTLE-TACOMA ARPT (SEATTLE)-RADIO: ILS emits localizer signals on 110.3 mcs, boundary and outer marker signals on 75 mcs cont. These signals may at times be spurious and are not to be relied upon for any purpose. (10-8) ARPT: Equip. on fld days. Const approx 20' N of N end NW/SE rnwy. (8-22)
**SILVERDALE ARPT-ABANDONED. (10-25). See page 141.
SPOKANE AAF-Use rnwys only. (4-25)
SULLIVAN LAKE ARPT (METALINE FALLS)-2' grass and weeds. (7-1)
★WALLA WALLA AAF-RADIO: Army twr decomm. (10-24) FLD: No lgts. (10-23).
** See page 4. 210' twr 2 mi SSW, red bcn flash, 30 fpm atop 2 sets of red side lgts. (10-18) This corrects AIRGI, Vol. 1, No. 15. CLOSED TO ALL ARMY ACFT EXCEPT ON OFF BUS. OR IN EMERG. NO FACS. All blinker lgts on mtns E of fld inop. Equip. on fld. 0800 to 1700 Mon thru Fri. Twr bndry lgts inop. (10-23)
WESTPORT ARPT-Driftwood on fld after extremely high tides. (7-21)
WHIDBEY ISLAND NAS-AULT FLD (WHIDBEY ISLAND)-Bcn opers on IFR and from sunset to sunrise. Warm-up aprons avail. for all rnwys. (9-11)
WILBUR AIRPORT-Center 200' strip avail. Equip. on fld. (8-8)
YAKIMA-RADIO: 116.1 mc transmitter and receiver inop. (8-22) Multiples all courses.
YAKIMA CO. ARPT (YAKIMA)-Graded areas rough. (10-22)

WEST INDIES

TRINIDAD-Carlsen Fld-Edinburgh (North)-Rnwy closed to all Navy traffic except in emerg. Use Xeres (South) rnwy.

WEST VIRGINIA

ELKINS ARPT-Contact Elkins Radio or circle fld before landing. (7-16)
LOUIS BENNETT ARPT (WESTON)-Soft spots after continuous heavy rains. (6-4)
PAYNESVILLE-RADIO: Priv H fac operated by PCA 0600 to 2300, use with caution.
SCOTT FLD (BECKLEY)-Use right hand traffic pattern. (5-7)

WISCONSIN

**CHAPLIN ARPK (PLYMOUTH)-New fld, Lat 43-46, long. 87-59. (10-21). See pages 16,33.
CLINTONVILLE ARPT-Use strips only. (6-7)
CURTISS-WRIGHT ARPT (MILWAUKEE)-Closed ngts. (9-26)
EAU CLAIRE MUN ARPT-Temp closed. (9-5)
GENERAL MITCHELL FLD (MILWAUKEE)-Equip. on fld days. Right turn procedure rstd to lcly based acft. All acft land acrdg to tetrahedron unless otherwise instrd by twr. All pilots must register in Admin Bldg upon arvl and dptr. Taxi strip S end fld connecting N/S, NW/SE rnwys closed. Excavated area 40' N of middle and E end E/W rnwy & junction NE/SW, NW/SE rnwys. Ditch digging 40' S of SE end NW/SE rnwy. (9-11)
GINNOW ARPT (OMRO)-Use strips only. (6-7)
KENOSHA ARPT-Only N bank floodlgts avail. on req (6-10)
LA CROSSE ARPT-Use rnwys only. (9-24)
MOREY ARPT (MADISON)-Equip. on fld - portions under const, marked. (4-28)
PLATTE ARPT (PLATTEVILLE)-CLOSED (const) (6-12)
RICE LAKE ARPT-Uncompleted portion NE/SW strip rough. (5-28)

WISCONSIN-Continued

RICHLAND CENTER ARPT-Equip. on fld. (8-10)
SHAWANO ARPT (SHAWANO)-Use rnwys only. E/W strip under const. (10-8)
SKY HAVEN ARPT (MILWAUKEE)-S 1/3 portion N/S strip unusable (washouts). (6-5)
STEVENS POINT ARPT-Use rnwys only. (8-9)
TAYLOR CO ARPT (MEDFORD)-Avail. in emerg only. Very rough. Maintained for small acft only. (6-6)
TOMAH ARPT-N/S strip under const. (7-9)
TRUAX FLD (MADISON)-Army temp inactive-civil. facs. Use rnwys only. Grass areas rough. (10-9)
VETERANS FLD (MENOMONIE)-Rough. (3-28)
WATERTOWN MUN ARPT-N/S strip soft - use W part of sod when wet. (4-10)
WINNEBAGO COUNTY ARPT (OSHKOSH)-Use rnwys only. (8-20)

WYOMING

CASPER AAF-CLOSED TO ALL ARMY ACFT EXCEPT ON OFF. BUS. OR IN EMERG. NO FACS.
**CASPER CENTRAL ARPT (CASPER)-New fld. Lat 42-52-15, long. 106-15-45 (8-2) See page 25. NE/SW strip under const (8-2)
CHEYENNE ARPT-Equip. on fld intmtly. (7-20)
**EAST SIDE ARPT (WHEATLAND)-New fld. Lat 42-03-30, long. 104-56-00.(8-2) See page 28.
**GILLETTE ARPK-New fld. Lat 44-17-00, long. 105-27-30 (7-31) See page 8.
JACKSON MUN ARPT-Cattle on fld intmtly. (5-20)
KNIGHT INT, SITE 6, SL-OH-On or about Nov 15, will be decomm. Bcn will remain in oper as airways bcn with course lgts changed from green to red. (10-20)
LARAMIE-RADIO: Range courses aligned by ground check only. (10-28)
**PARKERTON-RADIO: Oct. 15, FM comm at lat 42-53-48, long. 105-58-06. See page 25.
**SARATOGA MUN ARPT-New fld. Lat 41-26-45, long. 106-48-30. (5-15) See page 25.
SHERIDAN COUNTY ARPT (SHERIDAN)-N/S rnwy unsafe heavy acft. Taxi strips parallel all rnwys except N/S rnwy and terminate at ramp. Stay on pavement, Equip. on fld. (5-8)
WARDWELL FLD (CASPER)-Use rnwys, taxi strips only, bal fld rough. (7-15)

AERONAUTICAL CHARTS

U. S. Coast and Geodetic Survey. Dates of Latest Prints

Dates in small type indicate minor changes which are not of sufficient importance to make the previous print obsolete. All charts carrying dates older than those shown in large type on this list are obsolete for use in flight.

SECTIONAL

Aberdeen	Dec. 11, 1945	May 31, 1946	Denver	Sept. 17, 1946		Lewiston	July 2, 1946		Reno	May 17, 1945	Aug. 26, 1946
Albany	July 9, 1946		Des Moines	June 12, 1946		Lincoln	June 6, 1946		Roswell	Mar. 5, 1946	
Albuquerque	Sept. 9, 1946		Detroit	July 11, 1946		Little Rock	Mar. 19, 1946		Sacramento	Sept. 9, 1946	
Aroostook	June 26, 1946		Douglas	July 27, 1946		Los Angeles	Aug. 12, 1946		Salina	Mar. 5, 1946	
Austin	Aug. 11, 1946		Dubuque	Oct. 2, 1945	June 18, 1946	Miami	Aug. 8, 1946		Salt Lake City	Aug. 30, 1945	May 17, 1946
Beaumont	July 25, 1946		Duluth	Jan. 8, 1946	June 6, 1946	Miles City	May 13, 1946		San Antonio	July 30, 1946	
Bellingham	Apr. 30, 1946		Elko	May 4, 1946		Milwaukee	June 16, 1946		San Diego	Aug. 27, 1946	
Birmingham	Apr. 2, 1946		El Paso	July 25, 1946		Minot	June 6, 1946		San Francisco	Aug. 10, 1946	
Boise	Apr. 30, 1946		Fargo	May 29, 1946		Mobile	Aug. 6, 1946		Savannah	Apr. 2, 1946	
Boston	July 2, 1946		Glacier Park	Apr. 26, 1945	May 7, 1946	Mt. Shasta	May 3, 1945	May 3, 1946	Seattle	Apr. 30, 1946	
Burlington	June 24, 1946		Grand Canyon	Feb. 19, 1946	Sept. 16, 1946	Mt. Whitney	Aug. 27, 1946		Shreveport	Mar. 19, 1946	
Butte	May 15, 1946		Grand Junction	Feb. 19, 1946	Sept. 13, 1946	Nashville	Apr. 2, 1946		Sioux City	May 31, 1946	
Casper	May 20, 1946		Green Bay	June 12, 1946		New Orleans	Aug. 6, 1946		Spokane	May 10, 1946	
Charlotte	Apr. 2, 1946		Huntington	Nov. 27, 1945	April 2, 1946	New York	July 2, 1946		Trinidad	Sept. 16, 1946	
Chattanooga	Apr. 2, 1946		Jacksonville	Aug. 11, 1946		Norfolk	Apr. 16, 1946		Tulsa	Mar. 19, 1946	
Cheyenne	Aug. 30, 1945	May 24, 1946	Kansas City	Mar. 19, 1946		Oklahoma City	Mar. 19, 1946		Twin Cities	May 31, 1946	
Chicago	June 17, 1946		Klamath Falls	Apr. 30, 1946		Orlando	Aug. 6, 1946		Washington, D.C.	Apr. 16, 1946	
Cincinnati	Apr. 2, 1946		Kootenai	Apr. 19, 1945	April 16, 1946	Phoenix	Aug. 21, 1946		Wichita	Mar. 5, 1946	
Cleveland	June 24, 1946		La Grande	May 3, 1945	May 9, 1946	Pocatello	May 27, 1946		Williston	May 3, 1945	May 9, 1946
Corpus Christi	Aug. 6, 1946		Lake Huron	June 25, 1946		Portland	Apr. 30, 1946		Winston-Salem	Apr. 2, 1946	
Dallas	Mar. 5, 1946		Lake Superior	June 13, 1946		Prescott	Mar. 5, 1946	Sept. 3, 1946	Yellowstone Park	Oct. 30, 1945	May 13, 1946
Del Rio	Jan. 22, 1946	July 23, 1946	Lake of Woods	May 24, 1946		Rapid City	May 3, 1945	May 17, 1946			

WORLD AERONAUTICAL - UNITED STATES

WAC 215	May 9, 1946	WAC 266	May 29, 1946	WAC 309	July 13, 1946	WAC 364	Aug. 11, 1946	WAC 467	Aug. 6, 1946
WAC 216	May 17, 1946	WAC 267	May 24, 1946	WAC 310	Aug. 6, 1946	WAC 404	Aug. 26, 1946	WAC 468	July 30, 1946
WAC 217	June 4, 1946	WAC 268	June 12, 1946	WAC 357	Apr. 30, 1946	WAC 405	Mar. 5, 1946	WAC 469	July 25, 1946
WAC 218	June 17, 1946	WAC 269	May 10, 1946	WAC 358	Apr. 16, 1946	WAC 406	Mar. 19, 1946	WAC 470	July 17, 1946
WAC 219	June 13, 1946	WAC 304	May 29, 1946	WAC 359	Apr. 16, 1946	WAC 407	Apr. 2, 1946	WAC 471	July 15, 1946
WAC 262	June 26, 1946	WAC 305	May 13, 1946	WAC 360	Apr. 2, 1946	WAC 408	Apr. 2, 1946	WAC 522	July 29, 1946
WAC 263	June 18, 1946	WAC 306	May 29, 1946	WAC 361	Apr. 2, 1946	WAC 409	Apr. 16, 1946	WAC 525	Aug. 8, 1946
WAC 264	July 10, 1946	WAC 307	June 6, 1946	WAC 362	Mar. 5, 1946	WAC 410	Apr. 16, 1946		
WAC 265	June 12, 1946	WAC 308	June 12, 1946	WAC 363	Aug. 11, 1946	WAC 466	Aug. 10, 1946		

RADIO DIRECTION FINDING

21-DF	July 8, 1946	23-DF	Sept. 6, 1946	25-DF	Apr. 2, 1946
22-DF	July 22, 1946	24-DF	May 14, 1946	26-DF	May 19, 1946

LOCAL

New York & Vicinity	Aug. 6, 1946	Miami	July 3, 1946
San Diego	Aug. 20, 1946	Brownsville	July 8, 1946
		Los Angeles	Sept. 13, 1946

WORLD AERONAUTICAL - ALASKA

WAC 62	Feb. 1946	WAC 77	Oct. 1944	WAC 118	July 1946	WAC 136	May 1946	WAC 139	Mar. 1946	WAC 191	Apr. 1946
WAC 63	May 1946	WAC 78	Mar. 1946	WAC 119	Jan. 1946	WAC 137	Mar. 1946	WAC 186	Mar. 1946	WAC 192	Mar. 1946
WAC 64	Mar. 1946	WAC 117	Aug. 1946	WAC 135	Mar. 1946	WAC 138	May 1946	WAC 190	Apr. 1946	WAC 193	Mar. 1946
WAC 76	May 1946										

FLIGHT

FC 1	Mar. 30, 1946	FC 11	July 9, 1946	FC 173	May 24, 1946	FC 184	Mar. 19, 1946	FC 218	May 9, 1946	FC 227	Sept. 12, 1945
FC 2	May 28, 1946	FC 12	Aug. 6, 1946	FC 174		FC 185	May 31, 1946	FC 219		FC 228	Sept. 12, 1945
FC 3	July 9, 1946	FC 13	May 28, 1946	FC 175	May 31, 1945	FC 186	June 21, 1945	FC 220	May 31, 1945	FC 229	July 9, 1946
FC 4	July 23, 1946	FC 14	Feb., 1945	FC 176	May 31, 1945	FC 187	May 31, 1946	FC 221	May 31, 1946	FC 230	July 5, 1945
FC 6	Oct., 1945	FC 15	Apr., 1945	FC 177		FC 188	Aug. 19, 1946	FC 222	May 31, 1946	FC 231	May 31, 1945
FC 7	Aug. 6, 1946	FC 16	Aug. 6, 1946	FC 178	May 15, 1946	FC 213	Aug. 19, 1946	FC 223	May 24, 1946	FC 232	May 31, 1945
FC 8	Jan., 1946	FC 18	June, 1943	FC 181	July 11, 1946	FC 214	May 31, 1945	FC 224	May 31, 1945	FC 233	Apr. 16, 1946
FC 9	Nov., 1944	FC 42	May 15, 1946	FC 182	Mar. 5, 1946	FC 216	May 17, 1946	FC 225	June 7, 1945 Mar., 1945	FC 234	May 31, 1946
FC 10	Dec., 1944	FC 43	May 31, 1946	FC 183	Apr. 2, 1946	FC 217	Oct. 30, 1945				

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New Charts: OP36 Bakersfield, Calif., Bakersfield-Kern County Arpt.; AL595 Dansville, N.Y., Arpt.; AL600 New Orleans, La., NAS; AL613 St. Petersburg, Fla., Albert Whitted Arpt.; AL622 Tyler, Texas, Pounds Field; AL628 Paducah, Ky., Paducah-McCracken Co. Arpt.; AL623 Muscogee, Okla., Arpt.

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